Con-nect

Application Programming Interface

Version 3.3.3

software AG
THE XML COMPANY

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This document applies to Con-nect Version 3.3.3 and to all subsequent releases. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Con-nect Application Programming Interface

The Con-nect Application Programming Interface (API) consists of a series of Natural subprograms which are delivered with Con-nect and can be used to access Con-nect data without using the online system.

This documentation is subdivided as follows:

General Information	Information on all API subprograms.
External Communication	Information on the parameter Node-parameters which is used by the API subprograms that refer to external nodes.
API Subprograms (see the **List of API Subprograms** below)	Description of each API subprogram. Each description lists the required parameters, subprograms, and possible return codes. Many descriptions also provide an example program.
Return Codes	List of all return codes.
Numbers	Overview of all object numbers, document formats, address types, cabinet types, folder numbers and file numbers.

List of API Subprograms

The following is a list of all API subprograms currently available with Con-nect.

Name	Description
Z-ACCEPT	Accept or decline an invitation to a meeting.
Z-ADD01	Add a nickname for an address at an external node. Applies only to an external node which uses the spool file.
Z-ADD01A	Add a nickname (including work address) for an address at an external node. Applies only to an external node which uses the spool file.
Z-ADD01B	Add a nickname for an address at an external node or for an internal Con-nect address. Applies only to an external node which uses the spool file.
Z-ADD01T	Add a nickname for an address at an external node. Applies also to an external node which uses the transport service.
Z-ADD03B	Add an appointment.
Z-ADD03C	Add an appointment.
Z-ADD04	Add a bulletin board.
Z-ADD05	Add a cabinet.
Z-ADD06	Add an appointment or the basic information of a meeting.
Z-ADD10	Add a distribution list.
Z-ADD10X	Add a distribution list. ISN uses format P10.
Z-ADD11	Add a document from the contents of the Natural edit area.
Z-ADD11C	Add a document using data from a text array.

Name	Description
Z-ADD11D	Add a document using data from a text array.
Z-ADD11X	Add a document from the contents of the Natural edit area. ISN uses format P10.
Z-ADD13	Add a folder and/or file.
Z-ADD13A	Add a folder and/or file (enhanced functionality).
Z-ADD17	Add a member to an existing distribution list.
Z-ADD17A	Add a member to a shared cabinet.
Z-ADD17B	Add a member to an existing distribution list.
Z-ADD27	Add a reference document.
Z-ADD74	Add an external node which uses either the transport service or the spool file.
Z-ADD79	Add a logical printer.
Z-ADDATT	Add attendees and resources to a meeting.
Z-ADDOBJ	Add a user-defined object.
Z-ALIST	Return the address list of a mail item.
Z-ALISTM	Return the address list of a mail item with address index. ISN uses format P10.
Z-ALISTX	Return the address list of a mail item. ISN uses format P10.
Z-CAN06	Cancel a meeting.
Z-CLSEQ	Load the printer close sequence.
Z-CMD	Invoke Con-nect from a user-written program and execute the specified Con-nect command sequence.
Z-CMDOBJ	Validate a command or command-object combination for a specific cabinet.
Z-CNFIRM	Confirm a message created with Z-MAILA and create a transport service item.
Z-COP11	Copy a document (to copy to another cabinet, you must be authorized to use that cabinet).
Z-COP11B	Copy a document (to copy to another cabinet, you can specify the password of that cabinet).
Z-COP11C	Copy a document with keywords and enclosures.
Z-COP11X	Copy a document (to copy to another cabinet, you must be authorized to use that cabinet). ISN uses format P10.
Z-DETACH	Detach cover notes, enclosed documents or attached notes from a document. Or detach attached notes from an appointment or meeting.
Z-DIS04	Display a list of bulletin boards.
Z-DIS04A	Display the contents of a specific bulletin board.
Z-DIS04X	Display the contents of a specific bulletin board. ISN uses format P10.
Z-DIS05	Display a list of cabinets.
Z-DIS05A	Display a list of cabinets with backup information.

Name	Description
Z-DIS05F	Display the cabinet profile of a specific cabinet.
Z-DIS05I	Display the date and time formats and the sliding window (YSLW) value in the user profile of a specific cabinet.
Z-DIS05X	Display a list of cabinets. ISN uses format P10.
Z-DIS11	Display a list of documents.
Z-DIS11A	Display a list of documents with information on replies. ISN uses format P10. If Adabas version 6.2 or above is installed, the list of documents can be displayed in descending alphabetical order.
Z-DIS11X	Display a list of documents. ISN uses format P10. If Adabas version 6.2 or above is installed, the list of documents can be displayed in descending alphabetical order.
Z-DIS13	Display a list of folders.
Z-DIS13A	Display the contents of a specific folder or file.
Z-DIS13B	Display the contents of a specific folder or file.
Z-DIS17A	Display a list of all members of a distribution list, shared cabinet or private cabinet which the user has shared.
Z-DIS17B	Display a list of all members of a distribution list, shared cabinet or private cabinet which the user has shared.
Z-DIS20	Display a list of notepad pages.
Z-DIS23	Display a list of printer profiles.
Z-DIS27	Display a list of reference documents.
Z-DIS33	Display a list of users including work address information.
Z-DIS39A	Display a list of all addressees to whom the user of a specific cabinet can send mail.
Z-DIS74	Display a list of external nodes.
Z-DIS79	Display a list of logical printers.
Z-DRIVER	Load a printer profile into the Con-form buffer.
Z-ENC11	Enclose documents with a host document, or detach enclosures from a host document.
Z-ERA01	Erase a nickname.
Z-ERA03	Erase an appointment.
Z-ERA04	Erase a bulletin board.
Z-ERA05	Mark a cabinet for deletion or cancel a deletion mark.
Z-ERA10	Erase a distribution list.
Z-ERA11	Erase a document.
Z-ERA11B	Erase a document from a bulletin board.
Z-ERA11X	Erase a document. ISN uses format P10.
Z-ERA13	Erase a folder or file.

Name	Description
Z-ERA17	Erase a member from a distribution list.
Z-ERA27	Erase a reference document.
Z-ERA74	Delete an external node which uses either the transport service or the spool file.
Z-ERA79	Delete a logical printer.
Z-ERAOBJ	Erase a user-defined object.
Z-EXPU	Update the expiration date and archive flag of a document.
Z-FIL11	File a document into another folder or file and/or rename it.
Z-FIL11A	File a document into another folder or file (with all previous replies and identical keywords) or rename it.
Z-FIL11X	File a document into another folder or file and/or rename it. ISN uses format P10.
Z-FIL13	File a folder in another folder, or remove a folder from the folder in which it is stored.
Z-FIL27	File a reference document into another folder or file and/or rename it.
Z-FILCNF	Format and file a Cnf document.
Z-FILOB	File a user-defined object into another folder or file and/or rename it.
Z-FORWD	Forward mail.
Z-GET01	Return information about a nickname for an address at an external node or for an internal Con-nect address. Applies only to an external node which uses the spool file.
Z-GET01B	Return information about a nickname for an address at an external node or for an internal Con-nect address, including Private-flag for nicknames, last name and first name of a user at an external node as well as the security levels for a nickname or user. Applies only to an external node which uses the spool file.
Z-GET01C	Return the work and home address for a cabinet or nickname, including last name, first name and Private-flag for a nickname.
Z-GET01D	Return the work and home address for a cabinet or nickname, including the Cc and Miscellaneous information.
Z-GET01E	Return the work and home address for a cabinet or nickname, including the Cc and Miscellaneous information. The parameter list contains new Cc-3 parameters which apply to the mail status message. The format of the Miscellaneous parameters has been increased to 10 lines. All types of users can use this subprogram.
Z-GET01T	Return information about a nickname for an address at an external node or for an internal Con-nect address. Applies also to an external node which uses the transport service.
Z-GET03B	Return information about an appointment or meeting.
Z-GET04	Return an object which is contained in a specific bulletin board.
Z-GET04X	Return an object which is contained in a specific bulletin board. ISN uses format P10.
Z-GET06A	Return information about an appointment, meeting, reminder or todo.

Name	Description
Z-GET06B	Return information about an appointment, meeting, reminder or todo, including the ISN of a calendar entry and the number of attached notes..
Z-GET06C	Return information about notes that are attached to an appointment or meeting.
Z-GET06D	Return the history of a meeting.
Z-GET06E	Return the meeting version and, if applicable, either the update or cancelation message.
Z-GET11	Return the description of a document.
Z-GET11C	Return a document, including cover notes and enclosed documents, into a text array.
Z-GET11D	Return a document, including cover notes, attached notes and enclosed documents, into a text array.
Z-GET11X	Return the description of a document. ISN uses format P10.
Z-GET27	Return information about a reference document.
Z-GET27A	Return information about a reference document (including information when and by whom it was last modified).
Z-GET33	Return the date and time formats of a user and the language in which the user works.
Z-GET33A	Return the work phone number of a user.
Z-GET33C	Return the date and time formats of a user, the language in which the user works, and the sliding window value (YSLW).
Z-GET74	Return information about an external node which uses either the transport service or the spool file.
Z-GETADR	Return the work and home address for a cabinet or nickname.
Z-GETAG	Return the text of an agenda that has been attached to an appointment, meeting or invitation.
Z-GETOBJ	Return the text lines of a user-defined object into a text array.
Z-GLOBAL	Return the contents of global variables in the Con-nect global data area GL-STD.
Z-IN11G2	Return the document information.
Z-IN11GX	Return the document information. ISN uses format P10.
Z-IN11U1	Update the document information.
Z-IN11UX	Update the document information. ISN uses format P10.
Z-INBKT	Return the number of items which are currently stored in the five files of the Inbasket.
Z-INF13	Return information about a specific folder or file. Also offers the possibility to modify the keywords and description of a folder or file.
Z-INFPR	Return the print defaults of a cabinet.
Z-INFPRA	Return the print defaults of a cabinet, including left margin and line wrapping.
Z-INOBG	Return information about a specific user-defined object.
Z-INOBU	Update information for a specific user-defined object.

Name	Description
Z-INVX	Return information about an invitation to a meeting or a cancelation message.
Z-LOGS	Return information about unsuccessful logon attempts to a cabinet.
Z-MAILA	Send an object.
Z-MAILAX	Send an object. ISN uses format P10.
Z-MCONFM	Confirm the invitations to a meeting.
Z-MEMCAB	Return a list of all cabinets and distribution lists in cabinet SYSCNT which have a specific cabinet as a member.
Z-MEMSHP	Return a list of shared and private cabinets that a user is allowed to use.
Z-MLDFLT	Modify the send defaults for a mail item that is to be sent with Z-MAILA.
Z-MLGETA	Return the mail status message of a specific user and the time range in which it is to appear.
Z-MLGETB	Return the mail status message of a specific user, the time range in which it is to appear and Cc information.
Z-MLGETC	Return the mail status message of a specific user, the time range in which it is to appear, whether date and time are to be hidden, and Cc information.
Z-MLSGET	Return the mail status message of a specific user.
Z-MOD01A	Modify a nickname for an address at an external node. Applies only to an external node which uses the spool file.
Z-MOD01B	Modify a nickname for an address at an external node, including last name and first name. Applies only to an external node which uses the spool file.
Z-MOD01C	Modify the work and home address for a cabinet or nickname, including last name, initial and first name of a cabinet, or last name and first name of a nickname.
Z-MOD01D	Modify the work and home address for a cabinet or nickname, including the Cc and Miscellaneous information.
Z-MOD01T	Modify a nickname for an address at an external node. Applies also to an external node which uses the transport service.
Z-MOD05A	Modify the date and time formats in the user profile of a specific cabinet.
Z-MOD05B	Modify the menu and overlay calendar information in the user profile of a specific cabinet.
Z-MOD05C	Modify the screen colors in the user profile of a specific cabinet.
Z-MOD05D	Modify the print defaults in the user profile of a specific cabinet.
Z-MOD05E	Modify the language code, default command sequence, blank substitute character and autosave interval in the user profile of a specific cabinet.
Z-MOD05F	Modify the cabinet profile of a specific cabinet.
Z-MOD05H	Modify the mail status message in the user profile of a specific cabinet.
Z-MOD05I	Modify the date and time formats and the sliding window (YSLW) value in the user profile of a specific cabinet.

Name	Description
Z-MOD05J	Modify the mail status message in the user profile of a specific cabinet, including Cc.
Z-MOD05K	Modify the print defaults (including left margin and wrapping of printed lines) in the user profile of a specific cabinet.
Z-MOD05L	Modify the mail status message in the user profile of a specific cabinet, including Cc. The time range can be hidden.
Z-MOD05M	Modify the language code, system folder names, default command sequence, blank substitute character and autosave interval in the user profile of a specific cabinet. Cabinet-ISN uses format P10.
Z-MOD06	Modify an appointment or meeting.
Z-MOD11	Modify the text of an existing document using data from a text array.
Z-MOD13	Modify the name, sorting sequence and/or description of a folder (including system folder or TRS folder) or of a file contained in it.
Z-MOD17	Authorize a user to use another private cabinet, or modify the profile of a user who is authorized to use another private cabinet.
Z-MOD27	Modify the description, keywords, writer and title of a reference document.
Z-MOD79	Modify a logical printer.
Z-MODADR	Modify the work and home address for a cabinet or nickname.
Z-MODPWD	Modify the password.
Z-NOTE	Maintain notepad pages.
Z-OPSEQ	Load the printer open sequence.
Z-PRI11	Print a Txt or Cnf document.
Z-PRI11F	Format and print a Cnf or Int document, or print a Txt document.
Z-PRI11G	Format and print a Cnf or Int document, or print a Txt document. You can specify the pages to be printed.
Z-PRI11I	Format and print a Cnf or Int document, or print a Txt document. You can control the printer and Con-form messages.
Z-PRI11X	Print a Txt or Cnf document. ISN uses format P10.
Z-PRI11Y	Format and print a Cnf or Int document, or print a Txt document. You can control the printer and Con-form messages. ISN uses format P10.
Z-REN05	Mark a cabinet for renaming purposes.
Z-REPLY	Reply to mail.
Z-SCAN11	Search for a specific character string (search value) in a document.
Z-SEARCH	Return a list of documents, reference documents, folders/files or user-defined objects, which have the specified keywords.
Z-SRCH03	Return a list of appointments or meetings which have the specified keywords.
Z-SRCHX	Return a list of documents, reference documents, folders/files or user-defined objects which have the specified search criteria (keywords and/or names).

Name	Description
Z-STIME	Return a list of time ranges in which all or most of the specified attendees and/or cabinets are available. Uses full quarters of an hour.
Z-STIME5	Return a list of time ranges in which all or most of the specified attendees and/or cabinets are available. Uses time slides consisting of 5 minutes.
Z-TRACNF	Translate an RFT (revisable form text DCA) document. The document format of the resulting document is Cnf.
Z-TRADCA	Translate a Cnf document. The document format of the resulting document is RFT (revisable form text DCA).
Z-TRAINT	Translate a Cnf document. The document format of the resulting document is Int (intermediate).
Z-TRS11	File a document into a TRS folder and invert the document. Or move a document from one TRS folder to another TRS folder.
Z-TRSCL	Close the TRS buffer.
Z-TRSOP	Open the TRS buffer.
Z-UNDO	Undo addressees of a mail item, including invitations to a meeting.
Z-VARSYM	Return a list of all variables appearing in a document text.
Z-VARX	Return a list of all variables appearing in a document text (enhanced functionality).

General Information

The aim of the Con-nect Application Programming Interface is to provide you with an alternative method of accessing information within Con-nect. You may need such access for any number of reasons; for example, to modify the company address, phone number or zip code.

To achieve a flexible but safe approach, Con-nect offers a series of parameter-driven API subprograms; each with a specific purpose. Using the API subprograms, you can create new objects, update existing objects, or simply retrieve information about existing objects.

Although each API subprogram has a special purpose, the ways in which an API subprogram can be used is almost unlimited. This provides you with a great deal of control and flexibility, dependent only upon how best you wish to utilize these facilities, incorporating them as desired into your own programs.

This chapter covers the following topics:

- The API Subprograms
- Subprograms Called By An API Subprogram
- API Data Area
- Local Data Areas
- Return Codes
- Parameters
- Password
- Security Aspects
- Transaction Handling
- Extended Files
- Time Specifications

The API Subprograms

The API subprograms are supplied in the library SYSCNT2. They begin with the prefix "Z-" (as in Z-GET11C).

The number in the name of an API subprogram refers to the object number. For example, 10 is the object number for distribution lists. Thus, Z-ADD10 is used to ADD a distribution list. See **Object Numbers** for a list of all object numbers.

Note:
A user can be disallowed to access TRS objects from a user-written program using the API subprograms. See *Con-nect Administration*, section **Con-nect Text Retrieval Administration** for information on the system defaults.

Subprograms Called By An API Subprogram

The subprograms that are called by the API subprograms are also supplied in the library SYSCNT2. They also begin with the prefix "Z-" (as in Z-120).

Each description of an API subprogram provides a list of subprograms that are called by the API program (including all subprograms that are then again called by the subprograms). For example:

Z-120
Z-122
Z-123
Z-1200&0

The language-specific map Z-1200&0 must be in the same library or steplib as the API subprograms. This map is invoked when a cabinet has been locked due to too many access attempts with an incorrect password. A locked cabinet can only be unlocked by a cabinet or system administrator. Natural automatically replaces the ampersand (&) in Z-1200&0 with the current value of *LANGUAGE. Thus, the English name for this map is Z-120010.

If Con-nect Text Retrieval and/or the transport service is installed, additional subprograms are called from most API subprograms.

- **Con-nect Text Retrieval**
  The following subprograms are called (in addition to those listed with the description of an API subprogram):

  Z-283
  Z-284

- **Transport Service**
  The following subprograms are called (in addition to those listed with the description of an API subprogram):

  X-AMAIL
  YA-CLOSE
  YA-GETDA
  YA-OPCR
  YA-PUTDA

YA-PUTRE
YC-GET
YC-PUT
YCCORDAT
YCDMPSDE
YCLOG
YCSETUP
YCTCDAT
YFN5
YH-BCALL
YH-GETID
YH-GMT
YH-RMOBJ
YL-01
YL-02

If an application is not executed in the library SYSCNT2, the API subprograms and all subordinate subprograms should be copied to the appropriate steplib prior to execution.

API Data Area

The most important profile data such as the cabinet name or the current time zone are internally stored in an API data area which is available to all API subprograms. For these profile data, the database is not accessed each time an API subprogram is called. Rather, it is accessed only if a different cabinet is used while calling several API subprograms. Thus, performance is significantly improved.

If for any reason, the above-mentioned profile data are not available, they are automatically restored by the API subprogram.

The prerequisite for this is that Con-form has been linked to Con-nect.

Local Data Areas

Local data areas for all API subprograms are supplied in the library SYSCNT2. They are provided for your convenience.

Each local data area begins with the prefix "L-" and is followed by the corresponding API subprogram name. Thus, L-ADD05 is the local data area for the API subprogram Z-ADD05.

The fields in a local data area have the same names as the parameters that have been used in the English documentation.

The level structure is the same in all local data areas. Thus, it is possible to use more than one local data area at a time.

Example:

```
1 LOCAL-ADD05
2 RETURN-CODE      N    2
2 CABINET          A    8
2 PASSWORD         A    8
2 CABINET-NAME     A    8
2 CABINET-TYPE     N    1
2 LAST-NAME        A   32
2 FIRST-NAME       A   32
2 INITIAL          A    1
2 DISALLOW-MAIL    A    1
2 ISN              P    8
```

To call a local data area, you just have to use its name with the DEFINE DATA LOCAL statement in your API subprogram. Example:

```
DEFINE DATA
LOCAL USING L-ADD05
END-DEFINE
```

Detailed examples are provided in the descriptions of Z-ADD05 and Z-MODADR.

Return Codes

When an API subprogram terminates successfully, either the value 0 (success) or 77 (end of list) is returned in the parameter Return-code.

When an error has occurred, the appropriate value is returned in the parameter Return-code. Each description of an API subprogram provides a list of possible return codes. See **Return Codes** for a list of all possible return codes.

Note:
You can also use the parameter Return-code to control transaction handling. See **Transaction Handling**.

Parameters

Parameter List

Each description of an API subprogram provides a list of all required parameters. For example:

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the wanted document.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document for which you want to return the description. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document for which you want to return the description.
Description	A60/1:4		X	The description of the document.

Note:
All parameter names which occur in the description of an API subprogram are written with an initial upper-case letter. If a parameter name consists of several words, it is hyphenated.

The "In" Column

The parameters that are marked in the "In" column of a parameter list are supplied by the user. The letter R (required) indicates that you must assign a value to the parameter. The letter O (optional) indicates that you can determine whether you want to assign a value to the parameter, or not.

The notation R* always appears pairwise in the "In" column. This means that you must specify only one of the two required parameters indicated by R* - you must not specify both parameters.

The notation O* also always appears pairwise in the "In" column. This means that you must specify only one of the two optional parameters indicated by O* - you must not specify both parameters.

The notation R/O indicates that you must specify at least one of the parameters marked with R/O. For example, when three parameters are marked with R/O, you must assign a value to one of these parameters; the other two parameters are optional.

The "Out" Column

The parameters that are marked with X in the "Out" column of a parameter list are returned by the API subprogram.

Specifying an Object Name

It is not possible to identify an object using its description (which is usually shown in parentheses). To identify an object, you must always specify its name (or ISN).

Objects in the Inbasket and Outbasket do not have a name. They are identified by their subjects.

An object name is indicated as follows in the parameter list:

Parameter	Format	In	Out	Remarks
Document-name	A32	R*		The name of the document for which you want to return the description. Either Document-name or ISN, not both.

Returning a List of Objects

The parameter Number is used in several API subprograms. It determines the maximum number of objects that are returned with each call. The default value is 20. You can define a lower value.

The parameter Number is indicated as follows in the parameter list:

Parameter	Format	In	Out	Remarks
Number	N2	O		The maximum number of objects that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.

A subprogram which is used to return a list of objects should be invoked iteratively until the return code 77 indicates the end of the list. For example:

```
REPEAT UNTIL RETURN-CODE = 77
   CALLNAT 'Z-DIS23'
      RETURN-CODE
      CABINET
      START-VALUE
      NUMBER
      PROFILE-TABLE (*)
      WORK-PARAMETER
UNTIL RETURN-CODE NE 0
END-REPEAT
```

The Work-Parameter

The Work-parameter is used in several API subprograms. It functions as a buffer if an API subprogram is called iteratively.

The Work-parameter is for internal use only. Thus, you cannot modify it while processing a specific object. Since the parameter is filled by every call, you must reset it if another object is to be processed by the same API subprogram.

The Work-parameter is indicated as follows in the parameter list:

Parameter	Format	In	Out	Remarks
Work-parameter	A46			For internal use.

Password

Private Cabinet

The "Remarks" column of the parameter list always indicates who is authorized to use an API subprogram. As a rule, any user who knows the password of a private cabinet is allowed to work in that cabinet.

Parameter	Format	In	Out	Remarks
Cabinet	A8	R		The cabinet in which the appointment is to be added.
Password	A8	R		The password of the above cabinet.

When the cabinet ID you specify is the same as the user ID with which you are currently logged in, a password is not required. When you specify a password, it is not validated.

When the cabinet ID you specify is not the same as the user ID with which you are currently logged in (i.e. you want to access a cabinet other than your own), the password is required and validated. It is not checked whether you have been authorized to use that cabinet.

Cabinet SYSCNT

The cabinet SYSCNT can only be accessed by a system administrator or supervisor.

When you specify SYSCNT as the cabinet ID and the system recognizes you as a system administrator or supervisor (as specified with the user ID and password with which you are currently logged in), a password is not required. When you specify a password, it is not validated.

Administrator Status

When an API subprogram can only be used by an administrator, this is indicated as follows in the "Remarks" column of the parameter list:

Parameter	Format	In	Out	Remarks
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.

When the cabinet ID you specify is the same as the user ID with which you are currently logged in and the system recognizes you as an administrator, a password is not required. When you specify a password, it is not validated.

In this case, the parameter Cabinet is simply used to check whether the user who invokes the API subprogram has the required administator status.

Security Aspects

Private Objects

All objects marked as private within a cabinet are ignored by the API subprograms if the private cabinet is accessed by a user other than the user to whom the cabinet has been assigned.

However, you must take care in the case of a folder which has been marked as private. The objects stored in this folder are not automatically private objects. A private folder does not appear in a list of folders, when another user works in your cabinet. However, when the user displays, for example, a list of all documents in your cabinet, the documents which are stored in a private folder are also shown in this list.

Security Levels

The parameter Security-flags is used in several API subprograms. It determines the security levels another user must have in order to read (display), modify, copy or print an object in the specified cabinet.

Parameter	Format	In	Out	Remarks
Security-flags	A1/1:4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9.

The first character specifies the security level for Read, the second for Modify, the third for Copy and the fourth for Print. The security levels can be 0 (lowest level) to 9 (highest level).

Transaction Handling

The successful termination of an API subprogram always results in an END TRANSACTION. In this case, the value 0 is returned in the parameter Return-code.

Several API subprograms allow you to control the transaction handling. Before you call the API subprogram using the CALLNAT statement, you can move the value -1 (minus 1) to the parameter Return-code so that END TRANSACTION is not issued.

When an API subprogram allows you to move the value -1 to the parameter Return-code so that END TRANSACTION is not issued, this is indicated as follows in the "Remarks" column of the parameter list:

Parameter	**Format**	**In**	**Out**	**Remarks**
Return-code	N2	O	X	Input -1: no ET.

The API subprogram only accepts the value -1. When you move any other value to the parameter Return-code, this value will be ignored and set to 0.

See the Natural documentation for further information regarding the END TRANSACTION statement.

Exception: When you reference a new mail item which is currently stored in the Inbasket, the corresponding address list is updated so that the reception status of the object indicates that it has been read. Additionally, the mail item is moved to the file Opened. In this case, END TRANSACTION is automatically issued (i.e. if you moved the value -1 to the parameter Return-code this will be ignored in this case).

Extended Files

Since Con-nect Version 3 supports extended files, all new API subprograms will use the format P10 for the parameter ISN (instead of P8).

The parameters of those API subprograms already delivered with earlier versions of Con-nect have not been modified. However, in order to avoid a Natural error when working with extended files (for example, when the ISN does not fit in the 8 digit long output field), these API subprograms have been revised as described below.

Create an Object - Transaction Handling can be Controlled

The API subprograms listed below are used to create objects. They return the ISN of the new object. You are able to control transaction handling by moving the value -1 to the parameter Return-code.

Z-ADD01
Z-ADD01A
Z-ADD01B
Z-ADD01T
Z-ADD10
Z-ADD11
Z-ADD11C
Z-ADD17
Z-ADD27
Z-ADD79
Z-ADDOBJ
Z-MAILA
Z-TRACNF
Z-TRADCA
Z-TRAINT

The following exception applies when the ISN exceeds the value 99,999,999:

- When you use the value -1, the object is created, the ISN is not returned and END TRANSACTION is not issued.
- When you do not use the value -1, the object is not created and BACKOUT TRANSACTION is issued.

When the ISN exceeds the value 99,999,999, the return code 17 (ISN consists of more than 8 digits) is always issued - even if the object has successfully been created.

Create an Object - Transaction Handling cannot be Controlled

The API subprograms listed below are used to create objects. They return the ISN of the new object. Successful termination of these API subprograms always results in an END TRANSACTION. You are not able to control transaction handling.

Z-ADD05
Z-ADD17A

When the ISN exceeds the value 99,999,999, you can now move the value -1 to the parameter Return-code (you still cannot control transaction handling). The following applies:

- When you use the value -1, the object is created, the ISN is not returned and END TRANSACTION is issued.
- When you do not use the value -1, the object is not created and BACKOUT TRANSACTION is issued.

When the ISN exceeds the value 99,999,999, the return code 17 (ISN consists of more than 8 digits) is always issued - even if the object has successfully been created.

Return a List of Objects

The API subprograms listed below are used to return a list of objects. For each object in the list the ISN is also returned.

Z-DIS04A
Z-DIS05
Z-DIS11
Z-DIS13A
Z-SEARCH
Z-SRCH03

The following exception applies when the ISN exceeds the value 99,999,999: the value 0 is returned in the parameter ISN. The return code is still 0 (success).

Return a Specific Object

The API subprograms listed below are used to return a specific object. You can either specify the name or the ISN of the object that you want to return.

Z-FIL11
Z-FILOB
Z-GET01
Z-GET01T
Z-GETOBJ
Z-IN11G2
Z-IN11U1
Z-INOBG
Z-INOBU
Z-MOD01A
Z-MOD01T

When the ISN exceeds the value 99,999,999, you can only specify the object by its name and the following exception applies: the value 0 is returned in the parameter ISN. The return code is still 0 (success).

Return the Number of Objects

Z-INBKT is used to return the number of objects in the different files of the Inbasket. The following exception applies when the number of objects in a specific Inbasket file exceeds the value 99,999,999: the value 99,999,999 is returned in the appropriate parameter. The return code is still 0 (success).

Time Specifications

With Con-nect Version 3, an error occurs if you specify one of the following time values:

24:mm	Corresponds to 0:mm on the next day.
hh:60	Corresponds to hh:00 of the next hour.

Thus, you must make sure that none of your user-written programs uses the above time values.

External Communication

The API subprograms that refer to nicknames for an address at an external node (such as Z-ADD01) or external nodes (such as Z-ADD74) contain the following parameter:

Parameter	Format	In	Out	Remarks
Node-parameters	A250	R		The physical address of the external node.

You must redefine the Node-parameters according to the mail method you are using. This is explained below.

- External Con-nect Nodes
- Con-nect Teleservices
- Con-nect SNADS
- Lotus AU/Con-nect: Internet E-Mail

External Con-nect Nodes

Spoolfile

When you use the spoolfile, you must redefine the Node-parameters as follows:

Parameter	Format	In	Out	Remarks
Filler1	A16			Must be blank.
Receiver	A32	R		The name or ID of the receiver.
Filler2	A14			Must be blank.
Con-nect-Node	A8	R		The name of the Con-nect node.

Transport Service

When you use the transport service, you must redefine the Node-parameters as follows:

Parameter	Format	In	Out	Remarks
Node-name	A8	R		The name of the Con-nect node.
Receiver	A20	R		The name or ID of the receiver.

Con-nect Teleservices

Con-nect Teleservices uses the spool file. It does not use the transport service.

For a TOPCALL, CAESAR or GNT system, you must redefine the Node-parameters as follows:

Parameter	Format	In	Out	Remarks
Telex-number	A16	R		The first 16 digits of the telex, teletex or telefax number.
Answer-back	A16	R		Answer back code.
Send-date	N4	R		The date when the message is to be sent.
Send-time	N4	R		The time when the message is to be sent.
Retries	N2	R		The number of times Con-nect tries to send.
Language	N1			Currently not used.
Cancel	A1	R		Cancel the telex, teletex or telefax.
To	A65	R		The name of the recipient.
Redefine To				
To1	A9	R		The first field of the "To" line.
To2	A56	R		The second field of the "To" line.
From	A65	R		The name of the sender.
Redefine From				
From1	A9	R		The first field of the "From" line.
From2	A56	R		The second field of the "From" line.
Subject	A60	R		The subject of the message.
Redefine Subject				
Subject1	A9	R		The first field of the "Subject" line.
Subject2	A51	R		The second field of the "Subject" line.
Device	A8	R		The name of the device from which the telex, teletex or telefax is sent.
Number-extension	A7	R		Used if the telex, teletex or telefax number is longer than 16 characters/digits.

Con-nect SNADS

Con-nect SNADS uses the spool file. It does not use the transport service.

You must redefine the Node-parameters as follows:

Parameter	Format	In	Out	Remarks
DSUN	A16	R		Distribution Service Unit Name (the node name).
Redefine DSUN				
RGN	A8	O		Routing Group Name. The first part of the DSUN.
REN	A8	R		Routing Element Name. The second part of the DSUN.
DUN	A16	R		Distribution User Name (the user name).
Redefine DUN				
DGN	A8	R		Distribution Group Name. The first part of the DUN.
DEN	A8	R		Distribution Element Name. The second part of the DUN.

Note:
You can also specify an asterisk (*) in the first byte of the parameters RGN, REN, DGN or DEN and leave the remaining bytes empty. When you specify an asterisk, the user is later prompted to provide further information.

Lotus AU/Con-nect: Internet E-Mail

This node type uses the transport service. It does not use the spool file.

You must redefine the Node-parameters as follows:

Parameter	Format	In	Out	Remarks
Mail-address	A64/1:16	R		The e-mail address of the recipient.

You can specify the e-mail address as shown in the following example:

```
MOVE 'kol@softwareag.com' TO MAIL-ADDRESS
```

Z-ACCEPT

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Accept or decline an invitation to a meeting.

This subprogram can be used by all attendees. It can also be used for resources.

The Calendar-ISN must point to a meeting, invitation or cancelation message.

To accept the invitation, mark the parameter Accept with any character. The invitation can be accepted even if it was previously declined, but added to your calendar.

To decline the invitation, leave the parameter Accept blank. The invitation can be declined even if it was previously accepted. When you decline an invitation, it is erased and the meeting is stopped. However, if you mark the parameter Add-to-calendar, the meeting is added to your calendar.

An invitation can only be accepted and added to your calendar if its time range does not conflict with other entries in your calendar. However, if you mark the parameter Add-to-calendar, the invitation is accepted and added to your calendar even if there are conflicting entries.

The following applies for a resource: if you decline an invitation (i.e. leave the parameter Accept blank), the parameter Add-to-calendar is ignored. The meeting is not added to the calendar of the resource.

The following applies for a cancelation message: the parameter Accept is ignored since the cancelation of the meeting is automatically accepted. If you mark the parameter Add-to-calendar, the canceled meeting is added to your calendar.

Date and time when the attendee has displayed the invitation for the first time or changed its state from accepted to declined (or vice versa) is included in the address list. This corresponds to the "Date/Time Read" information that can be displayed in online mode using the ADDRESS command.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet which contains the cancelation message or the invitation that is to be accepted or declined.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R	X	Input: ISN of the invitation or cancelation message. Output: ISN of the accepted or declined invitation.
Accept	A1	O		If marked, the invitation is accepted. If not marked, the invitation is declined. For a cancelation message, this parameter is ignored.
Add-to-calendar	A1	O		See the above description. For a resource, this parameter is ignored.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
18	API context buffer not available
24	Security violation
90	Date/time conflict with existing entry in calendar. Or resource is occupied during this time range.
91	History of meeting cannot be accepted or declined
92	Meeting has already been canceled (cannot be accepted or declined)
93	Resource does not exist

Subprograms

Z-0106A
Z-0106AN
Z-0420
Z-0420A
Z-100
Z-110
Z-120
Z-122
Z-123
Z-124
Z-165
Z-175
Z-180
Z-185
Z-190
Z-194
Z-197
Z-216
Z-222
Z-223
Z-400
Z-401
Z-711
Z-711A
Z-726
Z-728
Z-729
Z-731
Z-736
Z-741
Z-744
Z-745
Z-751
Z-120&0

Example

```
DEFINE DATA
LOCAL
1 RETURN-CODE        (N2)
1 CABINET            (A8)
1 PASSWORD           (A8)
1 CALENDAR-ISN       (P10)
1 ACCEPT             (A1)
1 ADD-TO-CALENDAR    (A1)
END-DEFINE
*
MOVE 'Cabinet'  TO CABINET
MOVE 'Password' TO PASSWORD
MOVE 59870      TO CALENDAR-ISN
MOVE 'X'        TO ACCEPT
MOVE 'X'        TO ADD-TO-CALENDAR
*
CALLNAT 'Z-ACCEPT'
  RETURN-CODE
  CABINET
  PASSWORD
  CALENDAR-ISN
  ACCEPT
  ADD-TO-CALENDAR
*
WRITE
  '=' CABINET           /
  '=' PASSWORD          /
  '=' CALENDAR-ISN      /
  '=' ACCEPT            /
  '=' ADD-TO-CALENDAR   //
*
IF RETURN-CODE NE 0
  WRITE / 'Return code: ' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
*
END
```

Z-ADD01

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a nickname for an address at an external node. This subprogram applies only to an external node which uses the spool file.

This subprogram does not apply to an internal Con-nect address or a transport service node. To add a nickname for an internal Con-nect address, you must use Z-ADD01B. To add a nickname for a transport service node, you must use Z-ADD01T.

If you know the Node-name, but do not know the physical address of the external node (Node-parameters) which has been defined by the administrator, you can invoke Z-GET74 prior to Z-ADD01 to obtain the physical address information.

This subprogram does not check whether the information you specify in the Node-parameters corresponds to the information which has been defined by the administrator. Thus, you can specify different address information in the Node-parameters. However, it is your responsibility to specify the correct information.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the nickname is to be added.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R		The nickname to be added.
ISN	P8		X	The ISN of the new nickname.
Description	A60/1:4	O		A brief description for the nickname.
Folder-name	A15	O		The folder in which the nickname is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the nickname is to be stored.
Node-name	A8	R		The name of an existing node which has been added by the administrator.
Node-parameters	A250	R		The physical address of the external node. See **External Communication**.
Parameter-length	N3	R		The length of the Node-parameters.
Post-flag	A1	O		Default: blank. Marking this flag is only useful, if you send mail using the online Con-nect. If marked, a window appears and you can enter additional information before the mail is sent. Therefore, do not mark this flag if you use Z-MAILA to send mail, since the window does not appear in this case.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
73	Invalid folder/file name
91	Invalid name
92	Name already exists
93	External node or address does not exist
99	External node is not a spool file node

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-147
Z-150
Z-162
Z-190
Z-1200&0

Z-ADD01A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a nickname for an address at an external node. This subprogram applies only to an external node which uses the spool file.

This subprogram does not apply to an internal Con-nect address or a transport service node. To add a nickname for an internal Con-nect address, you must use Z-ADD01B. To add a nickname for a transport service node, you must use Z-ADD01T.

This subprogram is similar to Z-ADD01 with the one exception that the additional parameter Work-address has been introduced.

If you know the Node-name, but do not know the physical address of the external node (Node-parameters) which has been defined by the administrator, you can invoke Z-GET74 prior to Z-ADD01A to obtain the physical address information.

This subprogram does not check whether the information you specify in the Node-parameters corresponds to the information which has been defined by the administrator. Thus, you can specify different address information in the Node-parameters. However, it is your responsibility to specify the correct information.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the nickname is to be added.
Password	A8	R		The password of the above cabinet.
Nickname	A20	X		The nickname to be added.
ISN	P8		X	The ISN of the new nickname.
Description	A60/1:4	O		A brief description for the nickname.
Folder-name	A15	O		The folder in which the nickname is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the nickname is to be stored.
Node-name	A8	R		The name of an existing node which has been added by the administrator.
Node-parameters	A250	R		The physical address of the external node. See **External Communication**.
Parameter-length	N3	R		The length of the Node-parameters.
Post-flag	A1	O		Default: blank. Marking this flag is only useful, if you send mail using the online Con-nect. If marked, a window appears and you can enter additional information before the mail is sent. Therefore, do not mark this flag if you use Z-MAILA to send mail, since the window does not appear in this case.
Work-address	A190/1:3	O		The work address. You must redefine this parameter. For all required redefinitions, see the example program for Z-ADD01B.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
73	Invalid folder/file name
91	Invalid name
92	Name already exists
93	External node or address does not exist
99	The node is not a spool file node

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-147
Z-150
Z-162
Z-190
Z-1200&0

Z-ADD01B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a nickname for an address at an external node or for an internal Con-nect address. This subprogram applies only to an external node which uses the spool file.

This subprogram does not apply to a transport service node. To add a nickname for a transport service node, you must use Z-ADD01T.

This subprogram is similar to Z-ADD01A with the one exception that you can also add a nickname for an internal Con-nect user.

The internal address can be one of the following: last name or user ID of a Con-nect user, a distribution list, a bulletin board or a cabinet.

You can also add a nickname for an already existing nickname (for example, if the nickname which has been defined by the administrator is difficult to remember); in this case you specify the Address-type 1.

When you add a nickname for an external address, you specify the parameters Node-name, Node-parameters, Parameter-length, Post-flag and Work-address. You must not specify the parameter Object-name.

If you know the Node-name, but do not know the physical address of the external node (Node-parameters) which has been defined by the administrator, you can invoke Z-GET74 prior to Z-ADD01B to obtain the physical address information.

This subprogram does not check whether the information you specify in the Node-parameters corresponds to the information which has been defined by the administrator. Thus, you can specify different address information in the Node-parameters. However, it is your responsibility to specify the correct information.

When you add a nickname for an internal address, you must specify the parameter Object-name. You must not specify the parameters Node-name, Node-parameters, Parameter-length, Post-flag and Work-address.

The parameter Work-address is only required when you add a nickname for an external address. When you add a nickname for an internal address, the system address is automatically provided (if you specify the parameter Work-address for an internal address, your address information will be ignored).

When you specify a user name in the parameter Object-name, you can either specify the last name or both last name and first name. Last name and first name must be separated by a comma (for example: Long,Sonya); you must not insert a blank character.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the nickname is to be added.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R		The nickname to be added.
ISN	P8		X	The ISN of the new nickname.
Address-type	N2	R		Must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 10=distribution list, 33=user ID, 70=last name, 74=external address.
Description	A60/1:4	O		A brief description for the nickname.
Folder-name	A15	O		The folder in which the nickname is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the nickname is to be stored.
Object-name	A40	R		The name of the object for which you want to create the nickname (for example, the user ID). Only required for an internal nickname.
Node-name	A8	R		The name of an existing node which has been added by the administrator. Depends upon the external node type. Only required for an external nickname.
Node-parameters	A250	R		The physical address of the external node. Only required for an external nickname. See **External Communication**.
Parameter-length	N3	R		The length of the Node-parameters.
Post-flag	A1	O		Only required for an external nickname. Default: blank. Marking this flag is only useful, if you send mail using the online Con-nect. If marked, a window appears and you can enter additional information before the mail is sent. Therefore, do not mark this flag if you use Z-MAILA to send mail, since the window does not appear in this case.
Work-address	A190/1:3	O		The work address is only required for an external address. You must redefine this parameter. For all required redefinitions, see the example program below.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
21	Addressee not found
33	Addressee not unique
34	Address type not found
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
73	Invalid folder/file name
91	Invalid name
92	Name already exists
93	External node does not exist
94	Object-number not allowed
95	Object with this name does not exist
96	Supply either the Object-name or Node-name, not both
97	No mailing function allowed
98	Address level is too low
99	The node is not a spool file node

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-147
Z-150
Z-162
Z-174
Z-190
Z-200A
Z-1200&0

Example

```
0010 *
0020 * Add a nickname in a specific cabinet for an internal address
0030 *
0040 *
0050 * PARAMETER  : ADDR-TYPE  +   NODE-NAME    OR  NAME
0060 *            : _________     _______________    ________________________
0070 *            :   01                             NICKNAME
0080 *            :   04                             NAME OF BULLETIN BOARD
0090 *            :   05                             CABINET-NAME
0100 *            :   10                             NAME OF DISTRIBUTION
0110 *            :   33                             USER-ID
0120 *            :   70                             LASTNAME,FIRSTNAME
0130 *            :   74           NODE-NAME
0140 *
0150 ************************************************************************
0160 DEFINE DATA
0170 LOCAL
0180 1 RETURN-CODE            (N2)
0190 1 CABINET                (A8)
0200 1 PASSWORD               (A8)
0210 1 NICKNAME               (A20)
0220 1 ISN                    (P8)
0230 1 ADDRESS-TYPE           (N2)               /* Allowed: 1,4,5,10,33,70,74
0240 1 DESCRIPTION            (A60/1:4)
0250 1 FOLDER-NAME            (A15)
0260 1 FILE-NAME              (A15)
0270 1 OBJECT-NAME            (A40)              /* - internal -
0280 1 NODE-NAME              (A8)               /* - external -
0290 1 NODE-PARAMETERS        (A250)             /* - external -
0300 1 PARAMETER-LENGTH       (N3)               /* - external -
0310 1 POST-FLAG              (A1)               /* - external -
0320 1 WORK-ADDRESS           (A190/1:3)         /* - external -
0330 *
0340 1 WORK-ADDRESS1          (A190)
0350 1 REDEFINE WORK-ADDRESS1
0360  2 WORK-TITLE            (A32)
0370  2 WORK-ORGANIZATION     (A32)
0380  2 WORK-LOCATION         (A32)
0390  2 WORK-DEPARTMENT-NAME  (A32)
0400  2 WORK-DEPARTMENT-NUM   (A10)
0410 1 WORK-ADDRESS2          (A190)
0420 1 REDEFINE WORK-ADDRESS2
0430   2 WORK-ADDRESS-LINES   (A60/1:3)
0440 1 WORK-ADDRESS3          (A190)
0450 1 REDEFINE WORK-ADDRESS3
0460   2 WORK-CITY            (A32)
0470   2 WORK-STATE-PROV      (A8)
0480   2 WORK-POSTAL-CODE     (A10)
0490   2 WORK-COUNTRY         (A8)
0500   2 WORK-PHONE-COUNTRY   (A2)
0510   2 WORK-PHONE           (A15)
0520   2 WORK-PHONE-EXT       (A10)
0530 *
0540 END-DEFINE
0550 * ****************************
0560 RESET RETURN-CODE
0570 *
0580 MOVE 'WORK-ORGANIZATION'    TO WORK-ORGANIZATION
0590 MOVE 'WORK-LOCATION'        TO WORK-LOCATION
0600 MOVE 'WORK-DEPARTMENT-NAME' TO WORK-DEPARTMENT-NAME
```

```
0610 MOVE WORK-ADDRESS1    TO WORK-ADDRESS(1)
0620 MOVE WORK-ADDRESS2    TO WORK-ADDRESS(2)
0630 MOVE WORK-ADDRESS3    TO WORK-ADDRESS(3)
0640 MOVE 'CABINET'   TO CABINET
0650 MOVE 'PASSWORD'  TO PASSWORD
0660 MOVE 'NICKNAME'  TO NICKNAME
0670 MOVE  33         TO ADDRESS-TYPE  /* Allowed: 1,4,5,10,33,70,74
0680 MOVE 'USER-ID'   TO OBJECT-NAME   /* Distr.list;User-id;Cabinet;Bulletin;
0690 *                                    Lastname,Firstname,Nickname;
0700 CALLNAT 'Z-ADD01B' RETURN-CODE
0710                    CABINET
0720                    PASSWORD
0730                    NICKNAME
0740                    ISN
0750                    ADDRESS-TYPE
0760                    DESCRIPTION(*)
0770                    FOLDER-NAME
0780                    FILE-NAME
0790                    OBJECT-NAME
0800                    NODE-NAME
0810                    NODE-PARAMETERS
0820                    PARAMETER-LENGTH
0830                    POST-FLAG
0840                    WORK-ADDRESS(*)
0850 *
0860 IF RETURN-CODE = 0
0870    WRITE 'Address was added'
0880 ELSE
0890    WRITE 'Return Code:' RETURN-CODE
0900 END-IF
0910 *
0920 END
```

Z-ADD01T

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a nickname for an address at an external node. This subprogram also applies to an external node which uses the transport service.

This subprogram does not apply to an internal Con-nect address. To add a nickname for an internal Con-nect address, you must use Z-ADD01B.

If you know the Node-name, but do not know the physical address of the external node (Node-parameters) which has been defined by the administrator, you can invoke Z-GET74 prior to Z-ADD01T to obtain the physical address information.

This subprogram does not check whether the information you specify in the Node-parameters corresponds to the information which has been defined by the administrator. Thus, you can specify different address information in the Node-parameters. However, it is your responsibility to specify the correct information.

The parameters Last-name and First-name can be specified for a specific user at the transport service node. When you are an administrator and add a nickname in cabinet SYSCNT, this information can later be used by all local users in the address management system.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the nickname is to be added.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R		The nickname to be added.
ISN	P8		X	The ISN of the new nickname.
Last-name	A32	O		The last name of a user at the transport service node.
First-name	A32	O		The first name of a user at the transport service node.
Description	A60/1:4	O		A brief description for the nickname.
Folder-name	A15	O		The folder in which the nickname is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the nickname is to be stored.
Node-name	A8	R		The name of an existing transport service node which has been added by the administrator.
Node-parameters	A250/1:7	R		The physical address of the transport service node. See **External Communication**.
Post-flag	A1	O		Default: blank. Marking this flag is only useful, if you send mail using the online Con-nect. If marked, a window appears and you can enter additional information before the mail is sent. Therefore, do not mark this flag if you use Z-MAILA to send mail, since the window does not appear in this case.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
73	Invalid folder/file name
91	Invalid name
92	Nickname already exists
93	External node does not exist
94	Node-name is required

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-147
Z-150
Z-162
Z-190
Z-192
Z-1200&0

Z-ADD03B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add an appointment.

The date range between Start-date and End-date must be equal to or less than 90 days (otherwise the return code 43 is issued). Start-date and End-date are computed according to the given time zone.

If a time zone is not specified, the Start-time and End-time are interpreted as GMT (0). If these values are to be put into a different time zone, the difference must be entered into the parameter Timezone.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided.

If the parameter No-time-occupancy is specified, the appointment does not occupy time in the calendar. This means that if another user wants to add a meeting and searches the calendar, this time range is not marked as reserved.

If the parameter Separate-daily-entries is specified, the appointment occupies only the specified time range for each day. If the parameter Separate-daily-entries is not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the appointment is to be added.
Password	A8	R		The password of the above cabinet.
Start-date	A8	R		The starting date of the appointment. Format yyyymmdd.
Start-time	A8	O		The starting time of the appointment. Format hhmm.
End-date	A8	O		The ending date of the appointment. Format yyyymmdd.
End-time	A8	O		The ending time of the appointment. Format hhmm.
No-time-occupancy	A1	O		If specified, the appointment does not occupy time in the calendar.
Separate-daily-entries	A1	O		If specified, the appointment occupies only the specified time range for each day.
Subject	A20	R/O		The subject of the appointment. You must specify at least one of the following: Subject, Description or Location.
Description	A60/1:3	R/O		A brief description for the appointment. You must specify at least one of the following: Description, Subject or Location.
Location	A60	R/O		The location of the appointment. You must specify at least one of the following: Location, Subject or Description.
Keywords	A15/1:6	O		Keywords are helpful later when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Private-flag	A1	O		Only allowed in a private cabinet. If marked, the appointment is a private object.
Security-flags	A1/1:4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9. You can also assign the value X which provides absolute protection.
Timezone	N2	O		Default: 0 (GMT). Values -12 to +11.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
47	Invalid timezone
51	Invalid name (subject)
54	At least one keyword was invalid
61	Invalid security code(s)

Subprograms

N-IDATCM
Z-0106A
Z-0106C
Z-0106Z
Z-120
Z-122
Z-123
Z-160
Z-175
Z-185
Z-1200&0

Z-ADD03C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add an appointment.

This subprogram is similar to Z-ADD03B with the exception that it also returns the first ISN of the new appointment.

The date range between Start-date and End-date must be equal to or less than 90 days (otherwise the return code 43 is issued). Start-date and End-date are computed according to the given time zone.

If a time zone is not specified, Start-time and End-time are interpreted as GMT (0). If these values are to be put into a different time zone, the difference must be entered into the parameter Timezone.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided.

If the parameter No-time-occupancy is specified, the appointment does not occupy time in the calendar. This means that if another user wants to add a meeting and searches the calendar, this time range is not marked as reserved.

If the parameter Separate-daily-entries is specified, the appointment occupies only the specified time range for each day. If the parameter Separate-daily-entries is not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the appointment is to be added.
Password	A8	R		The password of the above cabinet.
Start-date	A8	R		The starting date of the appointment. Format yyyymmdd.
Start-time	A8	O		The starting time of the appointment. Format hhmm.
End-date	A8	O		The ending date of the appointment. Format yyyymmdd.
End-time	A8	O		The ending time of the appointment. Format hhmm.
No-time-occupancy	A1	O		If specified, the appointment does not occupy time in the calendar.
Separate-daily-entries	A1	O		If specified, the appointment occupies only the specified time range for each day.
Subject	A20	R/O		The subject of the appointment. You must specify at least one of the following: Subject, Description or Location.
Description	A60/1:3	R/O		A brief description of the appointment. You must specify at least one of the following: Description, Subject or Location.
Location	A60	R/O		The location of the appointment. You must specify at least one of the following: Location, Subject or Description.
Keywords	A15/1:6	O		Keywords are helpful later when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Private-flag	A1	O		Only allowed with a private cabinet. If marked, the appointment is a private object.
Security-flags	A1/1:4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9. You can also assign the value X which provides absolute protection.
Timezone	N2	O		Default: 0 (GMT). Values -12 to +11.
Object-ISN	P10		X	The first ISN of the new appointment.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
47	Invalid timezone
51	Invalid name (subject)
54	At least one keyword is invalid
61	Invalid security code(s)

Subprograms

N-IDATCM
Z-0106A
Z-0106C
Z-0106Z2
Z-120
Z-122
Z-123
Z-160
Z-175
Z-185
Z-1200&0

Example

```
0010 *
0020 * An example program to add an appointment
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE              (N2)
0070 1 CABINET                  (A8)
0080 1 PASSWORD                 (A8)
0090 1 START-DATE               (A8)
0100 1 START-TIME               (A8)
0110 1 END-DATE                 (A8)
0120 1 END-TIME                 (A8)
0130 1 SEPARATE-DAILY-ENTRIES   (A1)
0140 1 NO-TIME-OCCUPANCY        (A1)
0150 1 SUBJECT                  (A20)
0160 1 DESCRIPTION              (A60/1:3)
0170 1 LOCATION                 (A60)
```

```
0180 1 KEYWORDS                  (A15/1:6)
0190 1 PRIVATE-FLAG              (A1)
0200 1 SECURITY-FLAGS            (A1/1:4)
0210 1 TIMEZONE                  (N2)
0220 1 OBJECT-ISN                (P10)
0230 *
0240 END-DEFINE
0250 *
0260 RESET RETURN-CODE
0270 MOVE 'CABINET '             TO CABINET
0280 MOVE 'PASSWORD'             TO PASSWORD
0290 MOVE '19971231'             TO START-DATE
0300 MOVE '2100'                 TO START-TIME
0310 MOVE '19980101'             TO END-DATE
0320 MOVE '0600'                 TO END-TIME
0330 MOVE 'X'                    TO SEPARATE-DAILY-ENTRIES
0340 MOVE 'NEW YEAR CELEBRATION' TO SUBJECT
0350 MOVE 'DESCRIPTION 1'        TO DESCRIPTION(1)
0360 MOVE 'DESCRIPTION 2'        TO DESCRIPTION(2)
0370 MOVE 'LOCATION'             TO LOCATION
0380 MOVE 'KEYWORD1'             TO KEYWORDS(1)
0390 MOVE 'KEYWORD2'             TO KEYWORDS(2)
0400 MOVE 'X'                    TO PRIVATE-FLAG
0410 MOVE '3'                    TO SECURITY-FLAGS(1)     /* Read
0420 MOVE '7'                    TO SECURITY-FLAGS(1)     /* Modify
0430 MOVE  2                     TO TIMEZONE
0440 *
0450 CALLNAT 'Z-ADD03C' RETURN-CODE
0460   CABINET
0470   PASSWORD
0480   START-DATE
0490   START-TIME
0500   END-DATE
0510   END-TIME
0520   NO-TIME-OCCUPANCY
0530   SEPARATE-DAILY-ENTRIES
0540   SUBJECT
0550   DESCRIPTION(*)
0560   LOCATION
0570   KEYWORDS(*)
0580   PRIVATE-FLAG
0590   SECURITY-FLAGS(*)
0600   TIMEZONE
0610   OBJECT-ISN
0620 *
0630 IF RETURN-CODE EQ 0
0640   WRITE 'Appointment was added'
0650   WRITE 'ISN of created appointment record' OBJECT-ISN
0660 END-IF
0670 *
0680 WRITE 'Return code' RETURN-CODE
0690 *
0700 END
```

Z-ADD04

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a bulletin board.

This subprogram can only be used by a supervisor or system administrator.

When a value other than 0 is returned in the parameter Return-code, BACKOUT TRANSACTION is always issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.
Bulletin-name	A15	R		Name of the bulletin board to be added.
Description	A60/1:2	O		A brief description for the bulletin board.
Address-level	N1	O		The address level establishes limitations for the Send function. Specify a value between 0 (lowest level) and 9 (highest level). Default: 0.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
51	Invalid name
52	Object with specified name already exists
99	Address record error

Subprograms

Z-112
Z-120
Z-122
Z-123
Z-175
Z-190
Z-1200&0

Z-ADD05

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a cabinet.

This subprogram can be used only by a supervisor or cabinet administrator.

The cabinet and user profile which has been specified for the cabinet SYSCNT is automatically copied to the new cabinet. Administrator status is not copied to the new cabinet.

Successful termination of Z-ADD05 always results in an END TRANSACTION. You are not able to control transaction handling.

Note:
If modifications to the cabinet are necessary, use one of the Z-MOD05 subprograms with the ISN returned by Z-ADD05 or the Cabinet-name you specified with Z-ADD05. Z-MOD05A through Z-MOD05E modify different features of the user profile while Z-MOD05F modifies the cabinet profile.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R		The name of the cabinet to be added.
Cabinet-type	N1	R		0=private cabinet, 1=standalone cabinet, 2=shared cabinet, 3=public cabinet.
Last-name	A32	R		If the cabinet type is 0, you must enter the last name of the cabinet user. If the cabinet type is 1, 2 or 3, you must enter a description for the cabinet.
First-name	A32	R		Only required for cabinet type 0. You must enter the first name of the cabinet user.
Initial	A1	O		Can only be used with cabinet type 0. The middle initial of the cabinet user.
Disallow-mail	A1	O		Can only be used with cabinet types 1, 2 and 3. If marked, the cabinet is not able to receive or send mail.
ISN	P8		X	The ISN of the new cabinet.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
51	Invalid name
52	Object with specified name already exists
91	Cabinet type not specified
92	Disallow-mail is allowed only for cabinet type 1 to 3
94	Enter an alphabetical character value for Disallow-mail
95	Enter Last-name and First-name for private cabinet
96	First-name and Initial are defined only for private cabinet
97	Enter description in Last-name for cabinet type 1 to 3
98	Cabinet-name specified is reserved for rename

Subprograms

Z-109
Z-112
Z-120
Z-122
Z-123
Z-175
Z-190
Z-195
Z-206
Z-720
Z-1200&0

Example

The following example uses two local data areas. See **Local Data Areas** for further information.

Note the prefixes "L-ADD05." and "L-DIS05." which uniquely identify the parameters.

```
DEFINE DATA
LOCAL USING L-ADD05
LOCAL USING L-DIS05
LOCAL
1 INDEX (N2)
END-DEFINE
*
RESET L-ADD05.RETURN-CODE
MOVE 'DBA'         TO L-ADD05.CABINET
MOVE 'DBA'         TO L-ADD05.PASSWORD
MOVE 'FBL'         TO L-ADD05.CABINET-NAME
MOVE 0             TO L-ADD05.CABINET-TYPE
MOVE 'BLUECHAIR'   TO L-ADD05.LAST-NAME
MOVE 'FUV'         TO L-ADD05.FIRST-NAME
MOVE 'A'           TO L-ADD05.INITIAL
*
CALLNAT 'Z-ADD05'
    L-ADD05
IF L-ADD05.RETURN-CODE = 0
  WRITE 'Cabinet was added'
ELSE
  WRITE 'Return code' L-ADD05.RETURN-CODE
END-IF
*
NEWPAGE
*
RESET L-DIS05.RETURN-CODE
MOVE 'DBA'       TO  L-DIS05.CABINET
MOVE 'DBA'       TO  L-DIS05.PASSWORD
MOVE 'FBL'       TO  L-DIS05.START-CABINET
MOVE  9          TO  L-DIS05.START-CABINET-TYPE
MOVE  20         TO  L-DIS05.NUMBER
*
REPEAT UNTIL L-DIS05.RETURN-CODE NE 0
*
  CALLNAT 'Z-DIS05'
    L-DIS05
```

```
*
  FOR INDEX 1 TO L-DIS05.NUMBER
    IF L-DIS05.CABINET-ISN(INDEX) NE 0
      WRITE  NOTITLE (SG=OFF ZP=OFF AD=L )
           'Cabinet name   '  L-DIS05.CABINET-NAME(INDEX)
        /  'Cabinet type   '  L-DIS05.CABINET-TYPE(INDEX)
        /  'User last name '  L-DIS05.USER-LAST-NAME(INDEX)
        /  'User first name'  L-DIS05.USER-FIRST-NAME(INDEX)
        /  'User initial   '  L-DIS05.USER-INITIAL(INDEX)
        /  'Disallow mail  '  L-DIS05.DISALLOW-MAIL(INDEX)
        /  'Owner          '  L-DIS05.OWNER(INDEX)
        /  'Administrator  '  L-DIS05.ADMINISTRATOR(INDEX)
        /  'Cabinet ISN    '  L-DIS05.CABINET-ISN(INDEX)
     NEWPAGE
    END-IF
  END-FOR
END-REPEAT
WRITE 'Return code ' L-DIS05.RETURN-CODE
*
END
```

Z-ADD06

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add an appointment or the basic information (date, time, subject, location or agenda) of a meeting.

The date range between Start-date and End-date must be equal to or less than 90 days (otherwise the return code 43 is issued).

Start-time and End-time are interpreted as GMT (0).

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided.

If the parameter No-time-occupancy is specified, the appointment or meeting does not occupy time in the calendar. This means that if another user wants to add a meeting and searches the calendar, this time range is not marked as reserved.

If the parameter Separate-daily-entries is specified, the appointment or meeting occupies only the specified time range for each day. If the parameter Separate-daily-entries is not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.

When you add a meeting, you must also call the following subprograms:

1. Z-ADDATT to add attendees and resources to the address list of the meeting (they cannot be added with Z-ADD06).
2. Z-STIME to start the search for free time if you have marked the parameter Search-free-time.
3. Z-MCONFM to confirm (i.e. send) the invitations.

Notes can later be added to the appointment or meeting using Z-NOTE.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the appointment or meeting is to be added.
Password	A8	R		The password of the above cabinet.
Start-date	A8	R		The starting date of the appointment or meeting. Format yyyymmdd.
Start-time	A4	O		The starting time of the appointment or meeting. Format hhmm.
End-date	A8	O		The ending date of the appointment or meeting. Format yyyymmdd.
End-time	A4	O		The ending time of the appointment or meeting. Format hhmm.
Object-number	N2	R		3=appointment, 16=meeting.
Separate-daily-entries	A1	O		If specified, the appointment or meeting occupies only the specified time range for each day. If not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.
Ignore-existing-entries	A1	O		If specified, the appointment or meeting is added although the time range is already occupied by another calendar entry.
Subject	A20	R/O		The subject of the appointment or meeting. You must specify at least one of the following: Subject, Description or Location.
Description	A60/1:3	R/O		A brief description for the appointment or meeting. You must specify at least one of the following: Description, Subject or Location.
Location	A60	R/O		The location of the appointment or meeting. You must specify at least one of the following: Location, Subject or Description.
Agenda	A32	O		The name of a document which is to be linked to the appointment or meeting.
Keywords	A15/1:6	O		Keywords are helpful later when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Private-flag	A1	O		Only allowed with a private cabinet. If marked, the appointment or meeting is a private object.

Parameter	Format	In	Out	Remarks
Security-flags	A1/1:4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9. You can also assign the value X which provides absolute protection.
No-time-occupancy	A1	O		If specified, the appoinment or meeting does not occupy time in the calendar.
Search-free-time	A1	O		If specified, a special flag is set in the meeting records. Use Z-STIME to search the calendars of all attendees for free time. This function is not executed by Z-ADD06.
Calendar-ISN	P10		X	The ISN of the first record of the appointment or meeting.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
13	Invalid object number
18	API context buffer not available
24	Security violation
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
51	Invalid name (subject, description or location missing)
53	Requested object (agenda) does not exist
54	At least one keyword is invalid
57	Document (agenda) contains no text
61	Invalid security code(s)
93	Security levels must not be greater than those of profile
94	The specified time range is already occupied

Subprograms

N-IDATCM
N-NAMMOD
Z-0106A
Z-0106AN
Z-0106B
Z-0106C
Z-0420
Z-0420A
Z-100
Z-110
Z-120
Z-122
Z-123
Z-124
Z-135
Z-160
Z-165
Z-175
Z-180
Z-185
Z-190
Z-191A
Z-194
Z-197A
Z-201
Z-207
Z-216
Z-209
Z-223
Z-711
Z-711A
Z-728
Z-731
Z-737
Z-740
Z-741
Z-742
Z-743
Z-120&0
Z-1200&0
Z-MOD06

Example

```
DEFINE DATA
LOCAL
1 RETURN-CODE             (N2)
1 CABINET                 (A8)
1 PASSWORD                (A8)
1 START-DATE              (A8)
1 START-TIME              (A4)
1 END-DATE                (A8)
1 END-TIME                (A4)
1 OBJECT-NUMBER           (N2)
1 SEPARATE-DAILY-ENTRIES  (A1)
1 IGNORE-EXISTING-ENTRIES (A1)
1 SUBJECT                 (A20)
1 DESCRIPTION             (A60/1:3)
1 LOCATION                (A60)
1 AGENDA                  (A32)
1 KEYWORDS                (A15/1:6)
1 PRIVATE-FLAG            (A1)
1 SECURITY-FLAGS          (A1/1:4)
1 NO-TIME-OCCUPANCY       (A1)
1 SEARCH-FREE-TIME        (A1)
1 CALENDAR-ISN            (P10)
*
END-DEFINE
*
MOVE ’Cabinet’  TO CABINET
MOVE ’Password’ TO PASSWORD
MOVE ’20011231’ TO START-DATE
MOVE ’1900’     TO START-TIME
MOVE ’20020102’ TO END-DATE
MOVE ’2100’     TO END-TIME
MOVE 16         TO OBJECT-NUMBER
MOVE ’X’        TO SEPARATE-DAILY-ENTRIES
MOVE ’X’        TO IGNORE-EXISTING-ENTRIES
MOVE ’Subject-is-New-Year’     TO SUBJECT
MOVE ’Description-first-line ’ TO DESCRIPTION(1)
MOVE ’Description-second-line’ TO DESCRIPTION(2)
MOVE ’Location-of-meeting’     TO LOCATION
MOVE ’Doc-name1’               TO AGENDA
MOVE ’Keyword-number-one’      TO KEYWORDS(1)
MOVE ’9’                       TO SECURITY-FLAGS(*)
MOVE ’X’                       TO SEARCH-FREE-TIME
*
CALLNAT ’Z-ADD06’
  RETURN-CODE
  CABINET
  PASSWORD
  START-DATE
  START-TIME
  END-DATE
  END-TIME
  OBJECT-NUMBER
  SEPARATE-DAILY-ENTRIES
  IGNORE-EXISTING-ENTRIES
  SUBJECT
  DESCRIPTION (*)
  LOCATION
  AGENDA
  KEYWORDS    (*)
  PRIVATE-FLAG
```

```
  SECURITY-FLAGS    (*)
  NO-TIME-OCCUPANCY
  SEARCH-FREE-TIME
  CALENDAR-ISN
*
WRITE
  '='  CABINET
  '='  PASSWORD
  '='  START-DATE
  '='  START-TIME
  '='  END-DATE
  '='  END-TIME
  '='  OBJECT-NUMBER
  '='  SEPARATE-DAILY-ENTRIES
  '='  IGNORE-EXISTING-ENTRIES
  '='  SUBJECT
  '='  DESCRIPTION(1)
  '='  DESCRIPTION(2)
  '='  LOCATION
  '='  AGENDA
  '='  KEYWORDS(1:2)
  '='  PRIVATE-FLAG
  '='  SECURITY-FLAGS(1:4)
  '='  NO-TIME-OCCUPANCY
  '='  SEARCH-FREE-TIME
  '='  CALENDAR-ISN
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-ADD10

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a distribution list.

To add members to the distribution list, you must use Z-ADD17.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the distribution list is to be added.
Password	A8	R		The password of the above cabinet.
Distribution-name	A12	R		The name of the distribution list to be added. When you add a distribution list in cabinet SYSCNT, the Distribution-name must not be the same as the name of an existing cabinet.
Description	A60/1:4	O		A brief description for the distribution list.
Folder-name	A15	O		The folder in which the distribution list is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the distribution list is to be stored.
ISN	P8		X	The ISN of the new distribution list.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
51	Invalid name
52	Object with specified name already exists
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
90	Distribution list not added - ID already used for a cabinet
91	Error occurred - distribution list was not added

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-162
Z-190
Z-195
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE         (N2)
0030 1 CABINET             (A8)
0040 1 PASSWORD            (A8)
0050 1 DISTRIBUTION-NAME   (A12)
0060 1 DESCRIPTION         (A60/1:4)
0070 1 FOLDER-NAME         (A15)
0080 1 FILE-NAME           (A15)
0090 1 ISN                 (P8)
0100 END-DEFINE
0110 *
0120 MOVE 'USER-ID'   TO CABINET
0130 MOVE 'PW'        TO PASSWORD
0140 MOVE 'DISTR-1'   TO DISTRIBUTION-NAME
0150 MOVE 'This is the first description line' TO DESCRIPTION(1)
0160 *
0170 CALLNAT 'Z-ADD10' RETURN-CODE CABINET PASSWORD
0180   DISTRIBUTION-NAME DESCRIPTION(*) FOLDER-NAME FILE-NAME ISN
0190 *
0200 IF RETURN-CODE EQ 0
0210    WRITE 'Distribution list was added'
0220 ELSE
0230    WRITE 'RETURN CODE' RETURN-CODE
0240 END-IF
0250 *
0260 END
```

Z-ADD10X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a distribution list.

This subprogram is the same as Z-ADD10 with the one exception that the parameter ISN uses the format P10.

To add members to the distribution list, you must use Z-ADD17.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the distribution list is to be added.
Password	A8	R		The password of the above cabinet.
Distribution-name	A12	R		The name of the distribution list to be added. When you add a distribution list in cabinet SYSCNT, the Distribution-name must not be the same as the name of an existing cabinet.
Description	A60/1:4	O		A brief description for the distribution list.
Folder-name	A15	O		The folder in which the distribution list is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the distribution list is to be stored.
ISN	P10		X	The ISN of the new distribution list.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
51	Invalid name
52	Object with specified name already exists
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
90	Distribution list not added - ID already used for a cabinet
91	Error occurred - distribution list was not added

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-162
Z-190
Z-195
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE         (N2)
0030 1 CABINET             (A8)
0040 1 PASSWORD            (A8)
0050 1 DISTRIBUTION-NAME   (A12)
0060 1 DESCRIPTION         (A60/1:4)
0070 1 FOLDER-NAME         (A15)
0080 1 FILE-NAME           (A15)
0090 1 ISN                 (P10)
0100 END-DEFINE
0110 *
0120 MOVE ’USER-ID’   TO CABINET
0130 MOVE ’PW’        TO PASSWORD
0140 MOVE ’DISTR-1’   TO DISTRIBUTION-NAME
0150 MOVE ’This is the first description line’ TO DESCRIPTION(1)
0160 *
0170 CALLNAT ’Z-ADD10X’ RETURN-CODE CABINET PASSWORD
0180   DISTRIBUTION-NAME DESCRIPTION(*) FOLDER-NAME FILE-NAME ISN
0190 *
0200 IF RETURN-CODE EQ 0
0210    WRITE ’Distribution list was added’
```

```
0220 ELSE
0230    WRITE ’Return code ’ RETURN-CODE
0240 END-IF
0250 *
0260 END
```

Z-ADD11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a Con-nect document from the contents of the Natural source code edit area (ESIZE).

The edit area contents are not changed. The new document can contain up to four lines of description. The document is always filed in folder Work.

Note:
"*/" in the first two positions of a line in the Natural edit area generates a new page in the Con-nect document.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be added.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R		The name of the document to be added. Need not be specified if the first line of the Description is specified.
Description	A60/1:4	O		A brief description for the document. If you do not specify a Document-name, you must specify a Description.
ISN	P8		X	The ISN of the new document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
51	Invalid name
52	Document with specified name already exists
60	Edit area was empty

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-145
Z-190
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 01 RETURN-CODE   (N2)
0030 01 CABINET       (A8)
0040 01 PASSWORD      (A8)
0050 01 DOCUMENT-NAME (A32)
0060 01 DESCRIPTION   (A60/1:4)
0070 01 ISN           (P8)
0080 END-DEFINE
0090 *
0100 DEFINE PRINTER (4) OUTPUT 'SOURCE' /* Report 4 is now edit area
0110 *
0120 SET CONTROL 'Z'                    /* Erase edit area
0130 *
0140 MOVE 'USER-ID ' TO CABINET
0150 MOVE 'PW'       TO PASSWORD
0160 MOVE 'REPORT-1' TO DOCUMENT-NAME
0170 MOVE 'This is the first description line' TO DESCRIPTION (1)
0180 *
0190 WRITE (4) NOTITLE NOHDR ' This is the document text'
0200 *
0210 CALLNAT 'Z-ADD11' RETURN-CODE CABINET PASSWORD
0220                   DOCUMENT-NAME DESCRIPTION(*) ISN
0230 *
0240 IF RETURN-CODE EQ 0
0250   WRITE 'Document was added'
0260 ELSE
0270   WRITE 'RETURN CODE' RETURN-CODE
0280 END-IF
0290 *
0300 END
```

Z-ADD11C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a Con-nect document using data from a text array (A251/1:20).

You can add either a Txt or a Cnf document. The document is always filed in folder Work.

The parameter Text-array must be redefined as:

Byte Number	Description
1	Number of line feeds (1 to 9)
2 to 251	Text

Blank text lines (i.e. line feeds) must be defined separately; for example, when you specify the value 9, this must not be followed by any text. Text lines must always be preceded by the value 1 (when you do not enter a value, 1 is automatically used). For example:

```
MOVE '1This line contains text'    TO TEXT-ARRAY (1)
MOVE '2'                           TO TEXT-ARRAY (2)   /* inserts 2 blank lines
MOVE '1This is another text line'  TO TEXT-ARRAY (3)
```

Blank lines after the document text can be suppressed by specifying the number of text lines that are to be stored in the Number parameter. If the Number parameter is not specified, 20 is assumed.

This subprogram can be called iteratively to add a document of any length. During successive calls you must take care that the Work-parameter is not disturbed by the calling routine.

The parameter Text-array is not reset after a call. Thus, when using this subprogram iteratively, you must reset the parameter Text-array before filling it again.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be added.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R		The name of the document to be added. Need not be specified, if the first line of the Description is specified.
Description	A60/1:4	O		A brief description for the document. If you do not specify a Document-name, you must specify a Description.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Document-format	A1	R		0=Txt or 1=Cnf.
Text-array	A251/1:20	R		The text for the document.
Number	N2	O		The number of lines that are stored with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
ISN	P8		X	The ISN of the new document.
Work-parameter	A21			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
51	Invalid name
52	Document with specified name already exists
54	At least one keyword was invalid
58	No directory record has been created
79	Invalid document format

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-162
Z-190
Z-1200&0

Z-ADD11D

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a Con-nect document using data from a text array (A251/1:20).

This subprogram supports all Con-nect document formats. The document is always filed in folder Work and is sorted according to the Author-date.

The parameter Text-array must be redefined as:

Byte Number	Description
1	Number of line feeds (1 to 9)
2 to 251	Text

Blank text lines (i.e. line feeds) must be defined separately; for example, when you specify the value 9, it must not be followed by text. Text lines must always be preceded by the value 1 (when you do not enter a value, 1 is automatically used). For example:

```
MOVE '1This line contains text'    TO TEXT-ARRAY (1)
MOVE '2'                           TO TEXT-ARRAY (2)   /* inserts 2 blank lines
MOVE '1This is another text line'  TO TEXT-ARRAY (3)
```

Blank lines after the document text can be suppressed by specifying the number of text lines that are to be stored in the Number parameter. If the Number parameter is not specified, 20 is assumed.

This subprogram can be called iteratively to add a document of any length. During successive calls you must take care that the Work-parameter is not disturbed by the calling routine.

The parameter Text-array is not reset after a call. Thus, when using this subprogram iteratively, you must reset the parameter Text-array before filling it again.

When you want to upload old documents (for example, from 1988) into Con-nect, it is recommended that you specify the original date in the parameter Author-date. The original date will then be interpreted as the date the document was created. The current date (i.e. the date the document was added to Con-nect) will then be interpreted as the date the document was last modified.

Author-date and Author-time must be either equal to or occur prior to the current date and time. If these parameters are not specified, the current date and time are automatically used.

The expiration date is the current date plus the defined number of days until expiration.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be added.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R		The name of the document to be added. It need not be specified, if the first line of the Description is specified.
Description	A60/1:4	O		A brief description of the document. If you do not specify a Document-name, you must specify a Description.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Document-format	A1	R		0 - 9. See **Document Formats**.
Text-array	A251/1:20	R		The text for the document.
Number	N2	O		The number of lines that are stored with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Upload-format	A1	O		If marked, a conversion from the old Entire Connection transmission format (A120) back to the original binary format (B90) occurs. This applies to Bin, RFT, FFT and Vce documents.
Author-ID	A8	O		The ID of the author. If you do not specify an author, the ID of the current user is automatically used.
Author-date	N8	O		The date when the document was created. Format yyyymmdd.
Author-time	N4	O		The time (GMT) when the document was created. Format hhmm.
ISN	P10		X	The ISN of the new document.
Work-parameter	A40			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
41	Invalid Author-date
42	Invalid Author-time
51	Invalid name
52	Document with specified name already exists
54	At least one keyword was invalid
58	No directory record has been created
79	Invalid document format
91	Invalid Author-ID

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-160
Z-162
Z-175
Z-190
Z-1200&0

Example

```
0010 *
0020 * Example program to add a document from a text array
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE         (N2)
0070 1 CABINET             (A8)
0080 1 PASSWORD            (A8)
0090 1 DOCUMENT-NAME       (A32)
0100 1 DESCRIPTION         (A60/1:4)
0110 1 KEYWORDS            (A15/1:6)
0120 1 DOCUMENT-FORMAT     (A1)
0130 1 TEXT-ARRAY          (A251/1:20)
0140 1 NUMBER              (N2)
0150 1 UPLOAD-FORMAT       (A1)
0160 1 AUTHOR-ID           (A8)
0170 1 AUTHOR-DATE         (N8)
0180 1 AUTHOR-TIME         (N4)
0190 1 ISN                 (P10)
```

```
0200 1 WORK-PARAMETER      (A40)
0210 *
0220 END-DEFINE
0230 *
0240 RESET WORK-PARAMETER
0250 MOVE 'CABINET '                    TO CABINET
0260 MOVE 'PASSWORD'                    TO PASSWORD
0270 MOVE 'Document created by ADD11D ' TO DOCUMENT-NAME
0280 MOVE 'Document description line 1' TO DESCRIPTION(1)
0290 MOVE 'Document description line 3' TO DESCRIPTION(3)
0300 MOVE 'Keyword1'                    TO KEYWORDS(1)
0310 MOVE '0'                           TO DOCUMENT-FORMAT
0320 MOVE '1Line 1 of text of document' TO TEXT-ARRAY(1)
0330 MOVE '1Line 2 of text of document' TO TEXT-ARRAY(2)
0340 MOVE  2                            TO NUMBER
0350 MOVE 'ESH'                         TO AUTHOR-ID
0360 MOVE  19960831                     TO AUTHOR-DATE
0370 MOVE  1900                         TO AUTHOR-TIME
0380 *
0390 CALLNAT 'Z-ADD11D'
0400   RETURN-CODE
0410   CABINET
0420   PASSWORD
0430   DOCUMENT-NAME
0440   DESCRIPTION(*)
0450   KEYWORDS(*)
0460   DOCUMENT-FORMAT
0470   TEXT-ARRAY(*)
0480   NUMBER
0490   UPLOAD-FORMAT
0500   AUTHOR-ID
0510   AUTHOR-DATE
0520   AUTHOR-TIME
0530   ISN
0540   WORK-PARAMETER
0550 *
0560 IF RETURN-CODE EQ 0
0570   WRITE  'Document              ' DOCUMENT-NAME  'was added' /
0580     'ISN of document record' ISN
0590 ELSE
0600   WRITE  'Return code' RETURN-CODE
0610 END-IF
0620 END
```

Z-ADD11X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a Con-nect document from the contents of the Natural source code edit area (ESIZE).

This subprogram is the same as Z-ADD11 with the one exception that the parameter ISN uses the format P10.

The edit area contents are not changed. The new document can contain up to four lines of description. The document is always filed in folder Work.

Note:
"*/" in the first two positions of a line in the Natural edit area generates a new page in the Con-nect document.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be added.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R		The name of the document to be added. Need not be specified if the first line of the Description is specified.
Description	A60/1:4	O		A brief description for the document. If you do not specify a Document-name, you must specify a Description.
ISN	P10		X	The ISN of the new document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
51	Invalid name
52	Document with specified name already exists
60	Edit area was empty

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-145
Z-162
Z-175
Z-190
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 01 RETURN-CODE   (N2)
0030 01 CABINET       (A8)
0040 01 PASSWORD      (A8)
0050 01 DOCUMENT-NAME (A32)
0060 01 DESCRIPTION   (A60/1:4)
0070 01 ISN           (P10)
0080 END-DEFINE
0090 *
0100 DEFINE PRINTER (4) OUTPUT 'SOURCE' /* Report 4 is now edit area
0110 *
0120 SET CONTROL 'Z'                    /* Erase edit area
0130 *
0140 MOVE 'USER-ID ' TO CABINET
0150 MOVE 'PW'       TO PASSWORD
0160 MOVE 'REPORT-1' TO DOCUMENT-NAME
0170 MOVE 'This is the first description line' TO DESCRIPTION (1)
0180 *
0190 WRITE (4) NOTITLE NOHDR ' This is the document text'
0200 *
0210 CALLNAT 'Z-ADD11X' RETURN-CODE CABINET PASSWORD
0220                    DOCUMENT-NAME DESCRIPTION(*) ISN
0230 *
0240 IF RETURN-CODE EQ 0
0250   WRITE 'Document was added'
0260 ELSE
0270   WRITE 'Return code' RETURN-CODE
0280 END-IF
0290 *
0300 END
```

Z-ADD13

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a folder or file.

You can also add a folder and file at the same time.

The sequence of a file is always that of the folder in which it is stored (as specified in the parameter Folder-sequence).

If you want to specify a description and keywords while adding a folder or file, you must use Z-ADD13A.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the folder or file is to be added.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	R		Either the name of the folder to be added, or the name of the folder in which you want to store the file that you are currently adding.
File-name	A15	O		The name of the file to be added within the above folder.
Folder-sequence	N1	O		1 (ascending by date), 2 (descending by date), or 3 (user-defined). Default: 1.
Folder-number	N5		X	The internal number for the new folder.
File-number	N5		X	The internal number for the new file.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
12	System folder record does not exist, contact administrator
73	Invalid folder/file name
74	Folder/file already exists
75	Too many folders/files in this cabinet (>65535)
76	Sequence number for folder invalid, set to 1

Subprograms

Z-120
Z-122
Z-123
Z-190
Z-1200&0

Z-ADD13A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a folder or file.

You can also add a folder and file at the same time. In this case, the specifications for the parameters Description and Keywords apply to both the folder and file. However, it is recommended that you proceed in two steps. In the first step, you add a folder, and in the second step, you add a file (which is stored in the folder that you added in the first step). In this case, you can assign a separate description and separate keywords to the file.

In contrast to the description for a folder (A60/1:2), the description for a file has only one line and can be up to 40 characters long (A40).

The security levels of a file are always that of the folder in which it is stored (as specified in the parameter Security-flags).

The sequence of a file is always that of the folder in which it is stored (as specified in the parameter Folder-sequence).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the folder or file is to be added.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	R		Either the name of the folder to be added, or the name of the folder in which you want to store the file that you are currently adding.
File-name	A15	O		The name of the file to be added within the above folder.
Description	A60/1:2	O		A brief description for the folder or file. For a file the description has only one line and it can be up to 40 characters long (A40).
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Security-flags	A2	O		The security levels for Read and Modify. Values 0 to 9.
Folder-sequence	N1	O		1 (ascending by date), 2 (descending by date), or 3 (user-defined). Default: 1.
Folder-number	N5		X	The internal number for the new folder.
File-number	N5		X	The internal number for the new file.
ISN	P10		X	The ISN of the new folder or file. When you add a folder and file at the same time, this is the ISN of the file.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
12	System folder record does not exist, contact administrator
54	At least one keyword was invalid
61	Invalid security code(s)
73	Invalid folder/file name
74	Folder/file already exists
75	Too many folders/files in this cabinet (>65535)
76	Sequence number for folder invalid, set to 1

Subprograms

Z-120
Z-122
Z-123
Z-156
Z-175
Z-190
Z-1200&0

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 *
0050 1 RETURN-CODE              (N2)
0060 1 CABINET                  (A8)
0070 1 PASSWORD                 (A8)
0080 1 FOLDER-NAME              (A15)
0090 1 FILE-NAME                (A15)
0100 1 DESCRIPTION              (A60/1:2)
0110 1 KEYWORDS                 (A15/1:6)
0120 1 SECURITY-FLAGS           (A2)
0130 1 REDEFINE SECURITY-FLAGS
0140   2 SECURITY-READ          (A1)
0150   2 SECURITY-MODIFY        (A1)
0160 1 FOLDER-SEQUENCE          (N1)
0170 1 FOLDER-NUMBER            (N5)
0180 1 FILE-NUMBER              (N5)
0190 1 ISN                      (P10)
0200 *
0210 END-DEFINE
0220 *
0230 INPUT (IP=OFF AD='_')
0240         'Cabinet       ' CABINET
0250      /  'Password      ' PASSWORD (AD=N)
0260      /  'Folder        ' FOLDER-NAME
0270      /  'File          ' FILE-NAME
0280      /  'Description   ' DESCRIPTION (1)
0290      /  '              ' DESCRIPTION (2)
0300      /  'Keywords      ' KEYWORDS (1:3)
0310      /  '              ' KEYWORDS (4:6)
0320      /  'Security  Read' SECURITY-READ 'Modify' SECURITY-MODIFY
0330      /  'Sequence (1-3)' FOLDER-SEQUENCE (SG=OFF)
0340 IF   FOLDER-NAME NE ' '
0350      CALLNAT 'Z-ADD13A'
0360           RETURN-CODE
0370           CABINET
0380           PASSWORD
0390           FOLDER-NAME
0400           FILE-NAME
0410           DESCRIPTION (*)
0420           KEYWORDS (*)
0430           SECURITY-FLAGS
0440           FOLDER-SEQUENCE
0450           FOLDER-NUMBER
0460           FILE-NUMBER
0470           ISN
```

```
0480      IF   RETURN-CODE EQ 0
0490           WRITE 'Folder/file has been created'
0500      ELSE
0510           WRITE 'Folder/file cannot be created:' RETURN-CODE
0520      END-IF
0530 END-IF
0540 *
0550 END
```

Z-ADD17

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a member to an existing distribution list.

You can specify the following in the parameter Member: a Con-nect user, a bulletin board, a cabinet, another distribution list or an external node (for example, a Telex or SNADS node). You can also specify a nickname for any type of member listed before.

When you add a user, you can either specify the user's last name or user ID in the parameter Member.

The parameter Mail-type indicates whether the member of the distribution list is to receive an original, a copy, a blindcopy or private mail.

When you add a member to a distribution list, the following rules apply:

- the member must not contain a shared cabinet;
- the member must not contain other distribution lists;
- the distribution list must not be a member of another list;
- when you add a distribution list to another distribution list, the member must be from your own cabinet;
- a distribution list cannot be a member of itself;
- you cannot add a member to a distribution list of a shared cabinet.

Note:
You can use Z-ADD10 to create a distribution list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the distribution list is stored.
Password	A8	R		The password of the above cabinet.
Distribution-name	A12	R		The name of the distribution list to which you want to add the member.
Member	A20	R		The name of the member to be added. See the description above.
Mail-type	A1	R		O=original, C=copy, B=blindcopy, P=private mail. Default: O.
Member-ISN	P8		X	The ISN of the new member.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
30	Distribution list name invalid
32	Member (address) could not be found
51	Invalid name
53	Requested object does not exist
90	Member not added - contains a shared cabinet
91	Member not added - contains other distribution lists
92	Member not added - list is a member of another list
93	Member not added - it is already part of this list
94	Member not added - member must be from your own cabinet
95	Member not added - incorrect member type encountered
96	Address is not unique
97	A distribution list cannot be a member of itself
98	Member not added - error in parameter list
99	Member cannot be added to shared cabinet distribution lists

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-175
Z-198
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE          (N2)
0040 1 CABINET              (A8)
0050 1 PASSWORD             (A8)
0060 1 DISTRIBUTION-NAME    (A12)
0070 1 MEMBER               (A20)
0080 1 MAIL-TYPE            (A1)   /* O,C,B,P
0090 1 MEMBER-ISN           (P8)
0100 END-DEFINE
0110 *
0120 MOVE 'CABINET'  TO CABINET
0130 MOVE 'PASSWORD' TO PASSWORD
0140 MOVE 'DISTR-1'  TO DISTRIBUTION-NAME
0150 MOVE 'MEMBER'   TO MEMBER
0160 MOVE 'B'        TO MAIL-TYPE
0170 *
0180 CALLNAT 'Z-ADD17' RETURN-CODE CABINET PASSWORD
0190   DISTRIBUTION-NAME MEMBER MAIL-TYPE MEMBER-ISN
0200 *
0210 IF RETURN-CODE EQ 0
0220    WRITE 'MEMBER WAS ADDED TO DISTRIBUTION LIST'
0230 ELSE
0240    WRITE 'RETURN CODE' RETURN-CODE
0250 END-IF
0260 *
0270 END
```

Z-ADD17A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a member to a shared cabinet. The member can be a private cabinet or another shared cabinet.

This subprogram can be used only by a supervisor or cabinet administrator.

If Profile-type 3 (special profile) is specified, the ID of the cabinet which contains the special profile must be entered in the Special-profile parameter. The special profile is then copied and used for this member whenever it accesses the shared cabinet. The Special-profile parameter is ignored for types 1 and 2.

When you add a member to a shared cabinet, the following rules apply:

- the member must not contain a shared cabinet;
- the cabinet specified in the parameter Shared-cabinet must not be a member of another shared cabinet;
- the member must be the ID of a user or cabinet;
- a shared cabinet cannot be a member of itself.

Successful termination of Z-ADD17A always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Shared-cabinet	A8	R		The name of the shared cabinet to which you want to add a member.
Member	A8	R		The ID of a private or shared cabinet to be added as a member.
Profile-type	A1	O		1=shared profile, 2=private profile or 3=special profile. If left blank, or if an invalid value is specified, the default (1) is used.
Special-profile	A8	R		Only required for Profile-type 3. The ID of the cabinet which contains the profile. This can be a private, shared, public or standalone cabinet.
Member-ISN	P8		X	The ISN of the new member.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
32	Member (address) could not be found
90	Member not added - contains a shared cabinet
91	Member not added - cabinet is a member of another shared cabinet
92	Member not added - error in parameter list
93	Member not added - cabinet members must be users or cabinets
95	Member not added - it is already a member of this list
97	A shared cabinet cannot be a member of itself
98	Shared cabinet does not exist
99	Special profile does not exist

Subprograms

Z-120
Z-122
Z-123
Z-175
Z-198
Z-1200&0

Z-ADD17B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a member to an existing distribution list.

This subprogram is similar to Z-ADD17 with the exception that you can also specify the object type and object ISN.

You must either specify the parameters Object-name and Object-type or only the parameter Object-ISN. If the parameter Object-name is unique, parameter Object-type is not required.

You can specify the following in the parameter Object-name: a Con-nect user, a bulletin board, a cabinet, another distribution list or an external node (for example, a Telex or SNADS node). You can also specify a nickname for any type of object previously listed.

When you add a user (Object-type 33), you must specify the user ID in the parameter Object-name.

When you specify a user name (Object-type 70) in the parameter Object-name, you can either specify the last name or both last name and first name. Last name and first name must be separated by a comma (for example: Long,Sonya); you must not insert a blank character.

The parameter Mail-type indicates whether the member of the distribution list is to receive an original, a copy, a blindcopy or private mail.

When you add a member to a distribution list, the following rules apply:

- the member must not contain a shared cabinet;
- the member must not contain other distribution lists;
- the distribution list must not be a member of another list;
- when you add a distribution list to another distribution list, the member must be from your own cabinet;
- a distribution list cannot be a member of itself; and

- you cannot add a member to a distribution list of a shared cabinet.

Note:
You can use Z-ADD10 to create a distribution list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the distribution list is stored.
Password	A8	R		The password of the above cabinet.
Distribution-name	A12	R		The name of the distribution list to which you want to add the member.
Object-name	A20	R*		The name of the object to be added as a member. See the description above. Specify either Object-name or Object-ISN, not both.
Object-type	N2	O		Only valid if Object-name is specified. Must be specified if Object-name is not unique. Type of member to be added to the distribution list. Must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 10=distribution list, 33=user ID (private cabinet), 70=last name, 74=external address.
Object-ISN	P10	R*		The ISN of the object to be added as a member. Specify either Object-name or Object-ISN, not both.
Mail-type	A1	R		O=original, C=copy, B=blindcopy, P=private mail. Default: O.
Member-ISN	P10		X	The ISN of the new member in the distribution list.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
13	Invalid object number
24	Security violation
30	Distribution list name invalid
32	Member (address) could not be found
51	Invalid name
53	Requested object does not exist
90	Member not added - contains a shared cabinet
91	Member not added - contains other distribution lists
92	Member not added - list is a member of another list
93	Member not added - is already part of this list
94	Member not added - member must be from your own cabinet
95	Member not added - incorrect member type
96	Address or name is not unique
97	A distribution list cannot be a member of itself
98	Member not added - error in parameter list
99	Member cannot be added to shared cabinet distribution lists

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-175
Z-198
Z-710
Z-713
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE           (N2)
0040 1 CABINET               (A8)
0050 1 PASSWORD              (A8)
0060 1 DISTRIBUTION-NAME     (A12)
0070 1 OBJECT-NAME           (A20)
0080 1 OBJECT-TYPE           (N2)
0090 1 OBJECT-ISN            (P10)
0100 1 MAIL-TYPE             (A1)        /* O, C, B, P
0110 1 MEMBER-ISN            (P10)
0120 END-DEFINE
0130 *
0140 MOVE 'CABINET'      TO CABINET
0150 MOVE 'PASSWORD'     TO PASSWORD
0160 MOVE 'DISTR LIST 1' TO DISTRIBUTION-NAME
0170 MOVE 'MEMBER'       TO OBJECT-NAME
0180 MOVE  33            TO OBJECT-TYPE
0190 MOVE 'B'            TO MAIL-TYPE
0200 *
0210 CALLNAT 'Z-ADD17B' RETURN-CODE
0220                    CABINET
0230                    PASSWORD
0240                    DISTRIBUTION-NAME
0250                    OBJECT-NAME
0260                    OBJECT-TYPE
0270                    OBJECT-ISN
0280                    MAIL-TYPE
0290                    MEMBER-ISN
0300 *
0310 IF RETURN-CODE EQ 0
0320   WRITE 'Member' OBJECT-NAME 'was added to distribution list'
0330         DISTRIBUTION-NAME
0340 ELSE
0350   WRITE 'Return code' RETURN-CODE
0360 END-IF
0370 *
0380 END
```

Z-ADD27

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a reference document.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the reference document is to be added.
Password	A8	R		The password of the above cabinet.
Ref-document-name	A32	R		The name of the reference document to be added.
Folder-name	A15	O		The folder in which the reference document is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the reference document is to be stored.
Description	A60/1:4	R		A brief description for the reference document.
Keywords	A15/1:6	O		Keywords are helpful later when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Title	A60	O		The title of the work that you are referring to.
Writer	A60	O		The writer of the work that you are referring to.
ISN	P8		X	The ISN of the new reference document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
51	Invalid name
52	Document with specified name already exists
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-162
Z-190
Z-1200&0

Z-ADD74

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add an external node which uses either the transport service or the spool file.

This subprogram can be invoked only by a system administrator or supervisor.

When you add an external node which uses the transport service, you must specify the parameter Destination-node (i.e. the name by which the node that you are currently adding is to be identified within the transport service network).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.
Node-name	A8	R		The name of the node to be added.
Node-description	A40	O		A brief description for the node.
Node-type	A1	R		A=remote Con-nect node, B=Telex, F=SNADS, G=printer, H=Telefax, T=Teletex, or U=Lotus AU/Con-nect: Internet E-mail. Only the node types installed on your system can be specified.
Node-service	A1	R		S=spool file, T=transport service.
Address-level	N1	R		The address level establishes limitations for the Send function. Specify a value between 0 (lowest level) and 9 (highest level).
Destination-node	A8	R		Only required when you add a node which uses the transport service. The name by which the node is to be identified by the transport service.
Node-parameters	A250/1:7	R		The physical address of the external node. See **External Communication**. If you add a node which uses the spool file, only the first occurrence of the Node-parameters is used.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
90	User is not a system administrator or supervisor
91	Node already exists
92	Node type is not supported
93	Spool file nodes cannot have a transport service name
94	System contains no information regarding nodes
95	Addressee definition, not a node name
96	Missing transport service node name
97	Invalid transport service
98	Service not available for this node type

Subprograms

Z-112
Z-120
Z-122
Z-123
Z-177
Z-192
Z-199
Z-1200&0

Z-ADD79

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add a logical printer.

This subprogram can be used only by a supervisor or system administrator.

You must specify both parameters, Printer-name and Printer-TID.

Note:
When you operate under Natural Advanced Facilities, you must enter the name of the logical printer profile in the parameter Printer-TID.

Successful termination of Z-ADD79 always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.
Printer-name	A32	R		The name of the logical printer to be added.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used when the user enters the name of the logical printer.
Printer-profile	A32	O		The printer profile which is to be assigned to the logical printer.
Description	A60/1:4	O		A brief description for the logical printer.
Printer-ISN	P8		X	The ISN of the new logical printer.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
84	Requested printer profile does not exist
91	Printer-name is not unique
93	Printer-name and Printer-TID must not be left blank

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 DEFINE DATA
0030 LOCAL
0040 1 RETURN-CODE          (N2)
0050 1 CABINET              (A8)
0060 1 PASSWORD             (A8)
0070 1 PRINTER-NAME         (A32)
0080 1 PRINTER-TID          (A8)
0090 1 PRINTER-PROFILE      (A32)
0100 1 DESCRIPTION          (A60/1:4)
0110 1 PRINTER-ISN          (P8)
0120 *
0130 END-DEFINE
0140 *
0150 RESET RETURN-CODE
0160 MOVE 'LS'              TO CABINET
0170 MOVE 'PASSWORD'        TO PASSWORD
0180 MOVE 'PRINTER-NAME'    TO PRINTER-NAME
0190 MOVE 'TID'             TO PRINTER-TID
0200 MOVE 'PRINTER-PROFILE' TO PRINTER-PROFILE
0210 MOVE 'DESCRIPTION-1'   TO DESCRIPTION(1)
0220 MOVE 'DESCRIPTION-2'   TO DESCRIPTION(2)
0230 MOVE 'DESCRIPTION-3'   TO DESCRIPTION(3)
0240 MOVE 'DESCRIPTION-4'   TO DESCRIPTION(4)
0250 *
0260 CALLNAT 'Z-ADD79'
0270   RETURN-CODE
0280   CABINET
0290   PASSWORD
0300   PRINTER-NAME
0310   PRINTER-TID
0320   PRINTER-PROFILE
0330   DESCRIPTION(*)
0340   PRINTER-ISN
0350 *
0360 IF RETURN-CODE = 0
0370   WRITE 'LOGICAL PRINTER WAS ADDED'
0380 ELSE
0390   WRITE 'RETURN CODE' RETURN-CODE
0400 END-IF
0410 *
0420 END
```

Z-ADDATT

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Add attendees and resources to a meeting.

You can add as many as 12 attendees with each call. To add further attendees, you have to re-invoke this subprogram with no changes to the parameter list - except for the specification of further attendees and attendee types.

Z-ADDATT does not validate the mail information for external attendees. Therefore, each external attendee must be fully defined.

Z-ADDATT creates an address list (if it does not already exist) and performs limited security checking - i.e. it validates the send level and the number of attendees. Valid attendees are reset to blank after checking.

If an attendee is not found or is invalid, the appropriate return code is set. In this case, the attendee is not reset to blank and the API ends.

Caution:
If one of the attendees is not found or is invalid (i.e. if the return code is not 0), no attendees are added to the address list.

Z-MCONFM can later be used to send the invitations.

After the invitations have been sent, Z-UNDO can be used to undo attendees and resources.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet of the originator.
Password	A8	R		The password of the above cabinet.
Originator	A20	O		Will be set to *USER if the originator has an own cabinet. Otherwise, the specified name will be used.
Calendar-ISN	P10	R	X	Input: ISN of the first record of the meeting to be modified. Output: ISN of the first record of the meeting that has been modified.
Attendees	A20/1:12	R	X	Input: the names or user IDs of the attendees. Output: valid attendees are reset to blank.
Attendee-type	N2/1:12	O		One of the following: 1=address (nickname), 5=cabinet, 10=distribution list, 29=resource, 33=user ID, 70=last name, 74=external.
Work-parameter	A128			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to a meeting
21	Attendee not found
24	Security violation
25	More attendees than allowed
33	Attendee not unique
34	Attendee type not found
90	Adding attendees is only allowed for the last version of the meeting
91	Attendees cannot be added to a canceled meeting

Subprograms

Z-110
Z-120
Z-122
Z-123
Z-135
Z-147
Z-155
Z-165
Z-175
Z-190
Z-191A
Z-194
Z-197A
Z-200A
Z-201
Z-202
Z-207
Z-215
Z-216
Z-711
Z-742
Z-1200&0

Example

```
DEFINE DATA
LOCAL
1 RETURN-CODE     (N2)
1 CABINET         (A8)
1 PASSWORD        (A8)
1 ORIGINATOR      (A20)
1 CALENDAR-ISN    (P10)
1 ATTENDEES       (A20/1:12)
1 ATTENDEE-TYPE   (N2/1:12)
1 WORK-PARAMETER  (A128)
*
END-DEFINE
*
MOVE 'Cabinet'     TO CABINET
MOVE 'Password'    TO PASSWORD
MOVE 'David Brown' TO ORIGINATOR
MOVE 102504        TO CALENDAR-ISN
MOVE 'ESH'         TO ATTENDEES(1)
MOVE 33            TO ATTENDEE-TYPE(1)
MOVE 'TPI'         TO ATTENDEES(2)
MOVE 33            TO ATTENDEE-TYPE(2)
*
CALLNAT 'Z-ADDATT'
  RETURN-CODE
  CABINET
  PASSWORD
  ORIGINATOR
  CALENDAR-ISN
```

```
  ATTENDEES     (*)
  ATTENDEE-TYPE (*)
  WORK-PARAMETER
*
WRITE
  '=' CABINET           /
  '=' PASSWORD          /
  '=' ORIGINATOR        /
  '=' CALENDAR-ISN      /
  '=' ATTENDEES(*)      /
  '=' ATTENDEE-TYPE(*)  /
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-ADDOBJ

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Add a user-defined object.

This subprogram can be called iteratively to add an object of any length. The user-defined object must be specified by its Object-number, which must have been previously defined by the system administrator.

A user-defined object must not use a GDA of its own, since this destroys the GDA of Con-nect.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the user-defined object is to be added.
Password	A8	R		The password of the above cabinet.
Object-number	N2	R		The number of the user-defined object to be added.
Object-name	A32	R		The name of the user-defined object to be added.
Object-format	A1	O		Can be any user-defined object format. If the object is a document, this can also be a Con-nect document format. See **Document Formats**.
Folder-name	A15	O		The folder in which the user-defined object is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the user-defined object is to be stored.
Description	A60/1:4	O		A brief description for the user-defined object.
User-data	A60/1:4	O		Can be any information included by the user.
Private-flag	A1	O		If marked, the user-defined object is a private object.
Security-flags	A4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9. The four values must be numeric.
Text-array	A251/1:20	O		Can be any text included by the user.
ISN	P8		X	The ISN of the new user-defined object.
Work-parameter	A21			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
51	Invalid name
52	Object with specified name already exists
53	Requested object does not exist (has not been defined by administrator)
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
58	No directory record created
61	Invalid security code(s)
68	Object is not a user-defined object
73	Invalid folder/file name

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-147
Z-150
Z-162
Z-190
Z-1200&0

Z-ALIST

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the address list of a mail item.

You can invoke, for example, Z-DIS13A prior to this subprogram to obtain the ISN for the desired mail item.

This subprogram can be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the mail item is stored.
Password	A8	R		The password of the above cabinet.
ISN	P8	R		The ISN of the mail item.
Object-name	A60		X	The name or subject of the mail item.
Sender-name	A20		X	The name of the sender.
Sender-date	A8		X	The date when the mail item was sent for the first time. Format yyyymmdd.
Sender-time	A4		X	The time when the mail item was sent for the first time. Format hhmm.
Mail-type-addressee	A1		X	The values indicate that the addressee received the following: 1=original, 2=forwarded mail, 3=reply.
Address-table (12)				
Mail-ID	A8		X	The ID of the recipient.

Parameter	Format	In	Out	Remarks
Address-type	N2		X	The type of address: 4=bulletin board, 5=cabinet (shared, public, standalone), 29=resource (for a meeting), 33=user ID (private cabinet), 70=last name, 74=external address.
Name	A20		X	The name of the recipient.
Mail-type-sender	A1		X	The mail type the sender has specified for the addressee. O=original, C=copy, B=blindcopy, P=private.
External	A1		X	If marked, the mail item was sent to an external recipient.
Date-sent	A8		X	The date when the mail item was sent to this recipient. Format yyyymmdd, or 0 if mail has not yet been sent.
Time-sent	A4		X	The time when the mail item was sent to this recipient. Format hhmm.
Date-read	A8		X	The date when the mail item was read. Format yyyymmdd.
Time-read	A4		X	The time when the mail item was read. Format hhmm.
Reply	A1		X	If marked, at least one reply was sent.
Status	A4		X	The status of the mail item. See the values below.
Read-by	A8		X	The ID of the user who read the mail item.
Delivery-notification	A1		X	If marked, notification is required.
Receipt-notification	A1		X	If marked, notification is required.
Reply-requested	A1		X	If marked, reply is requested.
Reply-recipient	A1		X	If marked, the reply is also sent to all defined reply recipients.
Work-parameter	A26			For internal use. See **The Work Parameter**.

The following values can be returned in the parameter Status:

0000	No specific status
1600	Meeting was accepted
1601	Meeting was declined
1640	Meeting was stopped
7400	Awaiting distribution
7401	Distribution in progress
7402	Mail delivered
7403	Objects in this format cannot be sent
7404	External addressee unknown
7405	Mail cannot be delivered
7406	External system failure
7407	Receipt notification
7408	Mail deleted before receipt notification
7409	Mail item canceled by sender
7410	Unknown recipient node ID
7411	Send canceled after too may attempts
7412	Routing error
7413	Delivery of mail interrupted by external system
7414	Delivered to Inbasket
7415	Delivered to Inbasket of default cabinet
7416	Duplicate recipient, delivered only once
7801	Sending not possible - address information was not found
7802	Not sent - external mail error - contact your administrator
7803	Mail sent, delivery is pending

Return Codes

00	Success
02	Invalid cabinet
03	Password incorrect
04	ISN was not found
77	End of list
95	ISN does not point to a mail item
96	Mail item not contained in specified cabinet
97	Address list was not found

Subprograms

Z-120
Z-122
Z-123
Z-175
Z-1200&0

Example

```
0010 *
0020 * Example program to display the address list of a mail item
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 *
0070 1 RETURN-CODE                (N2)
0080 1 CABINET                    (A8)
0090 1 PASSWORD                   (A8)
0100 1 ISN                        (P8)
0110 1 OBJECT-NAME                (A60)
0120 1 SENDER-NAME                (A20)
0130 1 SENDER-DATE                (A8)
0140 1 SENDER-TIME                (A4)
0150 1 MAIL-TYPE-ADDRESSEE        (A1)
0160 1 ADDRESS-TABLE              (1:12)
0170   2 MAIL-ID                  (A8)
0180   2 ADDRESS-TYPE             (N2)
0190   2 NAME                     (A20)
0200   2 MAIL-TYPE-SENDER         (A1)
0210   2 EXTERNAL                 (A1)
0220   2 DATE-SENT                (A8)
0230   2 TIME-SENT                (A4)
0240   2 DATE-READ                (A8)
0250   2 TIME-READ                (A4)
0260   2 REPLY                    (A1)
0270   2 STATUS                   (A4)
0280   2 READ-BY                  (A8)
0290   2 DELIVERY-NOTIFICATION    (A1)
0300   2 RECEIPT-NOTIFICATION     (A1)
```

```
0310   2 REPLY-REQUESTED          (A1)
0320   2 REPLY-RECIPIENT          (A1)
0330 1 WORK-PARAMETER             (A26)
0340 *
0350 1 #IND                       (P3)
0360 *
0370 END-DEFINE
0380 *
0390 MOVE 'SAG'                     TO CABINET
0400 MOVE 'SAG'                     TO PASSWORD
0410 MOVE 12345678                  TO ISN
0420 *
0430 REPEAT
0440 *
0450      CALLNAT 'Z-ALIST'
0460           RETURN-CODE
0470           CABINET
0480           PASSWORD
0490           ISN
0500           OBJECT-NAME
0510           SENDER-NAME
0520           SENDER-DATE
0530           SENDER-TIME
0540           MAIL-TYPE-ADDRESSEE
0550           ADDRESS-TABLE (*)
0560           WORK-PARAMETER
0570 *
0580      IF   RETURN-CODE EQ 0 OR EQ 77
0590           WRITE NOTITLE / 'Address list of' OBJECT-NAME /
0600           FOR  #IND EQ 1 TO 12
0610                IF   NAME (#IND) NE ' '
0620                     WRITE NOTITLE (SG=OFF)
0630                          'Name' NAME (#IND)
0640                          'Sent' DATE-SENT (#IND)
0650                                 TIME-SENT (#IND)
0660                          'Read' DATE-READ (#IND)
0670                                 TIME-READ (#IND)
0680                END-IF
0690           END-FOR
0700           IF   RETURN-CODE EQ 77
0710                WRITE NOTITLE / 'End of address list'
0720           END-IF
0730           NEWPAGE
0740      END-IF
0750 *
0760 UNTIL RETURN-CODE NE 0
0770 END-REPEAT
0780 *
0790 END
```

Z-ALISTM

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the address list of a mail item with address index.

This subprogram is the same as Z-ALISTX with the one exception that it also uses the parameter Address-index.

You can invoke, for example, Z-DIS13B prior to this subprogram to obtain the ISN for the desired mail item.

This subprogram can be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the mail item is stored.
Password	A8	R		The password of the above cabinet.
ISN	P10	R		The ISN of the mail item.
Object-name	A60		X	The name or subject of the mail item.
Sender-name	A20		X	The name of the sender.
Sender-date	A8		X	The date when the mail item was sent for the first time. Format yyyymmdd.
Sender-time	A4		X	The time when the mail item was sent for the first time. Format hhmm.
Mail-type-addressee	A1		X	The values indicate that the addressee received the following: 1=original, 2=forwarded mail, 3=reply.
Address-table (12)				
Mail-ID	A8		X	The ID of the recipient.

Parameter	Format	In	Out	Remarks
Address-type	N2		X	The type of address: 4=bulletin board, 5=cabinet (shared, public, standalone), 29=resource (for a meeting), 33=user ID (private cabinet), 70=last name, 74=external address.
Name	A20		X	The name of the recipient.
Mail-type-sender	A1		X	The mail type the sender has specified for the addressee. O=original, C=copy, B=blindcopy, P=private.
External	A1		X	If marked, the mail item was sent to an external recipient.
Date-sent	A8		X	The date when the mail item was sent to this recipient. Format yyyymmdd, or 0 if mail has not yet been sent.
Time-sent	A4		X	The time when the mail item was sent to this recipient. Format hhmm.
Date-read	A8		X	The date when the mail item was read. Format yyyymmdd.
Time-read	A4		X	The time when the mail item was read. Format hhmm.
Reply	A1		X	If marked, at least one reply was sent.
Status	A4		X	The status of the mail item. See the values below.
Read-by	A8		X	The ID of the user who read the mail item.
Delivery-notification	A1		X	If marked, notification is required.
Receipt-notification	A1		X	If marked, notification is required.
Reply-requested	A1		X	If marked, reply is requested.
Reply-recipient	A1		X	If marked, the reply is also sent to all defined reply recipients.
Address-index	P4		X	Index of the addressee in the address list. This value can be used as an input value for Z-UNDO.
Work-parameter	A26			For internal use. See **The Work Parameter**.

The following values can be returned in the parameter Status:

0000	No specific status
1600	Meeting was accepted
1601	Meeting was declined
1640	Meeting was stopped
7400	Awaiting distribution
7401	Distribution in progress
7402	Mail delivered
7403	Objects in this format cannot be sent
7404	External addressee unknown
7405	Mail cannot be delivered
7406	External system failure
7407	Receipt notification
7408	Mail deleted before receipt notification
7409	Mail item canceled by sender
7410	Unknown recipient node ID
7411	Send canceled after too may attempts
7412	Routing error
7413	Delivery of mail interrupted by external system
7414	Delivered to Inbasket
7415	Delivered to Inbasket of default cabinet
7416	Duplicate recipient, delivered only once
7801	Sending not possible - address information was not found
7802	Not sent - external mail error - contact your administrator
7803	Mail sent, delivery is pending

Return Codes

00	Success
02	Invalid cabinet
03	Password incorrect
04	ISN was not found
77	End of list
95	ISN does not point to a mail item
96	Mail item not contained in specified cabinet
97	Address list was not found

Subprograms

Z-120
Z-122
Z-123
Z-175
Z-1200&0

Example

```
0010 *
0020 * Example program to display the address list of a mail item
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 *
0070 1 RETURN-CODE             (N2)
0080 1 CABINET                 (A8)
0090 1 PASSWORD                (A8)
0100 1 ISN                     (P10)
0110 1 OBJECT-NAME             (A60)
0120 1 SENDER-NAME             (A20)
0130 1 SENDER-DATE             (A8)
0140 1 SENDER-TIME             (A4)
0150 1 MAIL-TYPE-ADDRESSEE     (A1)
0160 1 ADDRESS-TABLE           (12)
0170   2 MAIL-ID               (A8)
0180   2 ADDRESS-TYPE          (N2)
0190   2 NAME                  (A20)
0200   2 MAIL-TYPE-SENDER      (A1)
0210   2 EXTERNAL              (A1)
0220   2 DATE-SENT             (A8)
0230   2 TIME-SENT             (A4)
0240   2 DATE-READ             (A8)
0250   2 TIME-READ             (A4)
0260   2 REPLY                 (A1)
0270   2 STATUS                (A4)
0280   2 READ-BY               (A8)
0290   2 DELIVERY-NOTIFICATION (A1)
0300   2 RECEIPT-NOTIFICATION  (A1)
```

```
0310   2 REPLY-REQUESTED       (A1)
0320   2 REPLY-RECIPIENT       (A1)
0330   2 ADDRESS-INDEX         (P4)
0340 1 WORK-PARAMETER          (A26)
0350 *
0360 1 #IND                    (N2)
0370 *
0380 END-DEFINE
0390 *
0400 MOVE 'CABINET'  TO CABINET
0410 MOVE 'PASSWORD' TO PASSWORD
0420 MOVE 12345678   TO ISN
0430 *
0440 REPEAT
0450 *
0460   CALLNAT 'Z-ALISTM'
0470     RETURN-CODE
0480     CABINET
0490     PASSWORD
0500     ISN
0510     OBJECT-NAME
0520     SENDER-NAME
0530     SENDER-DATE
0540     SENDER-TIME
0550     MAIL-TYPE-ADDRESSEE
0560     ADDRESS-TABLE(*)
0570     WORK-PARAMETER
0580 *
0590   IF MAIL-ID(1) NE ' '
0600     FOR #IND 1 TO 12
0610       IF MAIL-ID(#IND) NE ' '
0620         NEWPAGE
0630         WRITE
0640           // 'MAIL ID' MAIL-ID(#IND)
0650           'TYPE' ADDRESS-TYPE(#IND)
0660           'NAME' NAME(#IND)
0670           / 'TYPE SENDER' MAIL-TYPE-SENDER(#IND)
0680           / 'EXTERNAL' EXTERNAL(#IND)
0690           / 'SENT'
0700           'DATE' DATE-SENT(#IND)
0710           'TIME' TIME-SENT(#IND)
0720           / 'READ'
0730           'DATE' DATE-READ(#IND)
0740           'TIME' TIME-READ(#IND)
0750           'USER' READ-BY(#IND)
0760           / 'REPLY' REPLY(#IND)
0770           / 'STATUS' STATUS(#IND)
0780           / 'DELIVERY NOTIFICATION' DELIVERY-NOTIFICATION(#IND)
0790           / 'RECEIPT NOTIFICATION' RECEIPT-NOTIFICATION(#IND)
0800           / 'REPLY REQUESTED' REPLY-REQUESTED(#IND)
0810           / 'REPLY-RECIPIENT' REPLY-RECIPIENT(#IND)
0820           / 'ADDRESS-INDEX  ' ADDRESS-INDEX(#IND)
0830       END-IF
0840     END-FOR
0850   ELSE
0860     WRITE 'No items found'
0870   END-IF
0880   UNTIL RETURN-CODE NE 0
0890 END-REPEAT
0900 END
```

Z-ALISTX

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the address list of a mail item.

This subprogram is the same as Z-ALIST with the one exception that the parameter ISN uses the format P10.

You can invoke, for example, Z-DIS13B prior to this subprogram to obtain the ISN for the desired mail item.

This subprogram can be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the mail item is stored.
Password	A8	R		The password of the above cabinet.
ISN	P10	R		The ISN of the mail item.
Object-name	A60		X	The name or subject of the mail item.
Sender-name	A20		X	The name of the sender.
Sender-date	A8		X	The date when the mail item was sent for the first time. Format yyyymmdd.
Sender-time	A4		X	The time when the mail item was sent for the first time. Format hhmm.
Mail-type-addressee	A1		X	The values indicate that the addressee received the following: 1=original, 2=forwarded mail, 3=reply.
Address-table (12)				
Mail-ID	A8		X	The ID of the recipient.

Parameter	Format	In	Out	Remarks
Address-type	N2		X	The type of address: 4=bulletin board, 5=cabinet (shared, public, standalone), 29=resource (for a meeting), 33=user ID (private cabinet), 70=last name, 74=external address.
Name	A20		X	The name of the recipient.
Mail-type-sender	A1		X	The mail type the sender has specified for the addressee. O=original, C=copy, B=blindcopy, P=private.
External	A1		X	If marked, the mail item was sent to an external recipient.
Date-sent	A8		X	The date when the mail item was sent to this recipient. Format yyyymmdd, or 0 if mail has not yet been sent.
Time-sent	A4		X	The time when the mail item was sent to this recipient. Format hhmm.
Date-read	A8		X	The date when the mail item was read. Format yyyymmdd.
Time-read	A4		X	The time when the mail item was read. Format hhmm.
Reply	A1		X	If marked, at least one reply was sent.
Status	A4		X	The status of the mail item. See the values below.
Read-by	A8		X	The ID of the user who read the mail item.
Delivery-notification	A1		X	If marked, notification is required.
Receipt-notification	A1		X	If marked, notification is required.
Reply-requested	A1		X	If marked, reply is requested.
Reply-recipient	A1		X	If marked, the reply is also sent to all defined reply recipients.
Work-parameter	A26			For internal use. See **The Work Parameter**.

The following values can be returned in the parameter Status:

0000	No specific status
1600	Meeting was accepted
1601	Meeting was declined
1640	Meeting was stopped
7400	Awaiting distribution
7401	Distribution in progress
7402	Mail delivered
7403	Objects in this format cannot be sent
7404	External addressee unknown
7405	Mail cannot be delivered
7406	External system failure
7407	Receipt notification
7408	Mail deleted before receipt notification
7409	Mail item canceled by sender
7410	Unknown recipient node ID
7411	Send canceled after too may attempts
7412	Routing error
7413	Delivery of mail interrupted by external system
7414	Delivered to Inbasket
7415	Delivered to Inbasket of default cabinet
7416	Duplicate recipient, delivered only once
7801	Sending not possible - address information was not found
7802	Not sent - external mail error - contact your administrator
7803	Mail sent, delivery is pending

Return Codes

00	Success
02	Invalid cabinet
03	Password incorrect
04	ISN was not found
77	End of list
95	ISN does not point to a mail item
96	Mail item not contained in specified cabinet
97	Address list was not found

Subprograms

Z-120
Z-122
Z-123
Z-175
Z-1200&0

Example

```
0010 *
0020 * Example program to display the address list of a mail item
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 *
0070 1 RETURN-CODE                (N2)
0080 1 CABINET                    (A8)
0090 1 PASSWORD                   (A8)
0100 1 ISN                        (P10)
0110 1 OBJECT-NAME                (A60)
0120 1 SENDER-NAME                (A20)
0130 1 SENDER-DATE                (A8)
0140 1 SENDER-TIME                (A4)
0150 1 MAIL-TYPE-ADDRESSEE        (A1)
0160 1 ADDRESS-TABLE              (1:12)
0170   2 MAIL-ID                  (A8)
0180   2 ADDRESS-TYPE             (N2)
0190   2 NAME                     (A20)
0200   2 MAIL-TYPE-SENDER         (A1)
0210   2 EXTERNAL                 (A1)
0220   2 DATE-SENT                (A8)
0230   2 TIME-SENT                (A4)
0240   2 DATE-READ                (A8)
0250   2 TIME-READ                (A4)
0260   2 REPLY                    (A1)
0270   2 STATUS                   (A4)
0280   2 READ-BY                  (A8)
0290   2 DELIVERY-NOTIFICATION    (A1)
0300   2 RECEIPT-NOTIFICATION     (A1)
```

```
0310   2 REPLY-REQUESTED          (A1)
0320   2 REPLY-RECIPIENT          (A1)
0330 1 WORK-PARAMETER             (A26)
0340 *
0350 1 #IND                       (P3)
0360 *
0370 END-DEFINE
0380 *
0390 MOVE 'SAG'                     TO CABINET
0400 MOVE 'SAG'                     TO PASSWORD
0410 MOVE 12345678                  TO ISN
0420 *
0430 REPEAT
0440 *
0450      CALLNAT 'Z-ALISTX'
0460           RETURN-CODE
0470           CABINET
0480           PASSWORD
0490           ISN
0500           OBJECT-NAME
0510           SENDER-NAME
0520           SENDER-DATE
0530           SENDER-TIME
0540           MAIL-TYPE-ADDRESSEE
0550           ADDRESS-TABLE (*)
0560           WORK-PARAMETER
0570 *
0580      IF   RETURN-CODE EQ 0 OR EQ 77
0590           WRITE NOTITLE / 'Address list of' OBJECT-NAME /
0600           FOR  #IND EQ 1 TO 12
0610                IF   NAME (#IND) NE ' '
0620                     WRITE NOTITLE (SG=OFF)
0630                          'Name' NAME (#IND)
0640                          'Sent' DATE-SENT (#IND)
0650                                 TIME-SENT (#IND)
0660                          'Read' DATE-READ (#IND)
0670                                 TIME-READ (#IND)
0680                END-IF
0690           END-FOR
0700           IF   RETURN-CODE EQ 77
0710                WRITE NOTITLE / 'End of address list'
0720           END-IF
0730           NEWPAGE
0740      END-IF
0750 *
0760 UNTIL RETURN-CODE NE 0
0770 END-REPEAT
0780 *
0790 END
```

Z-CAN06

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Cancel a meeting.

The following applies for a meeting with version 1: if none of the attendees has read the invitation, all invitations are deleted from the Inbaskets of all attendees and the cancelation message is not sent.

The following applies if the version is greater than 1 or if one of the attendees has already read the invitation: all attendees receive the cancelation message in their Inbaskets.

The cancelation message is not sent, if the meeting occurs in the past.

When the parameter Retain-in-calendar has not been specified, the meeting is erased from the originator's calendar.

Successful termination of Z-CAN06 always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the meeting is to be canceled.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R	X	Input: ISN of the first record of the meeting to be canceled. Output: ISN of the first record of the meeting that has been canceled.
Retain-in-calendar	A1	O		If marked, the meeting is not erased from the originator's calendar after it has been canceled.
Cancelation-message	A37/1:10	O		Text for the cancelation message. If left empty, the standard cancelation message is generated.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
18	API context buffer not available
24	Security violation
90	Unable to create transport service item
98	Meeting has already been canceled and retained in calendar
99	Cancel not allowed from Inbasket

Subprograms

N-IDATCM
N-GETMSG
Z-MPPDB
Z-MPPLF
N-NAMMOD
S-0216
Z-0106A
Z-0106AN
Z-0420
Z-0420A
Z-100
Z-110
Z-120
Z-122
Z-123
Z-124
Z-135
Z-147
Z-160
Z-165
Z-168
Z-175
Z-177
Z-180
Z-185
Z-190
Z-191
Z-194
Z-194A
Z-197

Z-208
Z-209
Z-210
Z-211
Z-212
Z-213
Z-216
Z-222
Z-223
Z-224
Z-225
Z-241
Z-373
Z-400
Z-401
Z-402
Z-403
Z-404
Z-406
Z-407
Z-711
Z-711A
Z-728
Z-729
Z-734
Z-735
Z-736
Z-737
Z-738
Z-739
Z-740
Z-742
Z-743
Z-747
Z-120&0
Z-RCONFM
Z-UNDO

See also the list of subprograms for Z-UNDO.

Example

```
DEFINE DATA
LOCAL
1 RETURN-CODE          (N2)
1 CABINET              (A8)
1 PASSWORD             (A8)
1 CALENDAR-ISN         (P10)
1 RETAIN-IN-CALENDAR   (A1)
1 CANCELATION-MESSAGE  (A37/1:10)
END-DEFINE
*
MOVE 'Cabinet'  TO CABINET
MOVE 'Password' TO PASSWORD
MOVE 102504     TO CALENDAR-ISN
MOVE 'X'        TO RETAIN-IN-CALENDAR
MOVE 'First line of cancelation message ' TO CANCELATION-MESSAGE(1)
MOVE 'Second line of cancelation message' TO CANCELATION-MESSAGE(2)
*
CALLNAT 'Z-CAN06'
  RETURN-CODE
  CABINET
  PASSWORD
  CALENDAR-ISN
  RETAIN-IN-CALENDAR
  CANCELATION-MESSAGE(*)
*
WRITE
  '=' CABINET            /
  '=' PASSWORD           /
  '=' CALENDAR-ISN       /
  '=' RETAIN-IN-CALENDAR /
  '=' CANCELATION-MESSAGE(*)
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-CLSEQ

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Load the printer close sequence; i.e. initialize the Con-form defaults. This subprogram can only be used with Z-DRIVER.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The name of the cabinet which contains the printer profile.
Report-number	B1	R		0 to 31.

Return Codes

00	Success
91	Invalid report number

Subprograms

None

Example

See the example for Z-DRIVER.

Z-CMD

This chapter covers the following topics:

- Description
- Return Codes
- Subprograms
- Example

Description

Invoke Con-nect from a user-written program and execute the specified Con-nect command sequence. The functions then available to the user can be restricted if necessary through modifying the profile via the administration function.

You must not call Z-CMD from Con-nect (if the program which calls Z-CMD is invoked from Con-nect, Z-CMD cannot be executed).

Z-CMD supports Con-nect functions which would not otherwise be available via the API subprograms. Typical use of Z-CMD would be to access the Con-nect editor from a user-written application.

Before invoking Z-CMD, you must stack the following data (in the same sequence as listed in the table):

Stack Data	Format	In	Out	Remarks
Command	A60	R		A Con-nect command sequence.
Cabinet	A8	R		The cabinet to be used.
Password	A8	R		The password of the above cabinet.
Program-name	A8	R		The name of a user-written program to be executed upon leaving Con-nect.
CNT-library	A8	R		The name of the Con-nect library. Default: SYSCNT2.

Note:
Since Z-CMD is a Natural program (and not a subprogram) you must not use the CALLNAT statement to call it.

If Z-CMD is invoked from another library than the Con-nect library, you must save any global variables that are defined in the user-written program to avoid their being lost.

To return to the user-written application, you must leave Con-nect as usual (i.e. you must return to the menu which has been defined in your profile and then issue the QUIT command). You can also skip the menu (i.e. return to the application without displaying the menu). To do so, you must use a period (.) in the last byte of the Command parameter. The period must be preceded by at least one blank.

The Con-nect global area GL-STD can be modified using Con-nect online or using Z-CMD. It cannot be modified by an API subprogram. GL-STD contains the variable G-USER-DATA (A250) which is not used by Con-nect, but is available for your user-written programs.

Con-nect does not modify or check modified values in G-USER-DATA.

Return Codes

None

Subprograms

None

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 1 COMMAND      (A60)  /* Direct command to be executed in Con-nect
0050 1 CABINET      (A8)   /* Cabinet to be used (usually USERID)
0060 1 PASSWORD     (A8)   /* Password, if necessary for cabinet
0070 1 PROGRAM-NAME (A8)   /* Program to be executed after RETURN
0080 1 CNT-LIBRARY  (A8)   /* Name of the Con-nect library
0090                       /* Default: 'SYSCNT2'
0100 END DEFINE
0110 / ************************************************
0120 *
0130 *          Coding of the application program
0140 *
0150 ************************************************
0160 *
0170 MOVE 'MOD DOC DOC-NAME' TO COMMAND
0180 MOVE 'USER-ID'          TO CABINET
0190 MOVE 'PW'               TO PASSWORD
0200 MOVE 'C-EXIT'           TO PROGRAM-NAME
0210 RESET CNT-LIBRARY
0220 *
0230 STACK TOP DATA FORMATTED
0240 COMMAND CABINET PASSWORD PROGRAM-NAME CNT-LIBRARY
0250 *
0260 STACK TOP COMMAND
0270   'Z-CMD'
0280 END
```

Z-CMDOBJ

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Validate a command or command-object combination for a specific cabinet.

Z-CMDOBJ can be invoked before other API subprograms to determine whether a user has the authority to use a certain command-object combination. Thus, additional security is provided whenever a user-written application is invoked.

Note:
Using this subprogram increases overhead.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet for which you want to validate a command or command-object combination.
Filler	A8			For future use.
Command-number	N2	R		See the *Con-nect Administration* documentation, section **System Maintenance** for a list of command numbers.
Object-number	N2	O		See **Object Numbers**.

Return Codes

00	Success
01	Command or command-object combination not permitted

Subprograms

None

Z-CNFIRM

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Confirm mail which has been created with Z-MAILA and create a transport service item. You can only use this subprogram in conjunction with a transport service item.

Z-MAILA automatically invokes Z-CNFIRM which again invokes all of the subprograms listed below. When you invoke Z-MLDFLT prior to Z-MAILA, you can specify that Z-CNFIRM is not to be invoked by Z-MAILA (with the parameter Suspended-transport-flag). This provides an enhanced means of delivering transport service items.

If Z-MAILA does not automatically invoke Z-CNFIRM, you must invoke Z-CNFIRM yourself.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Work-parameter	A128			For internal use. See **The Work Parameter**.

Return Codes

00	Success
94	Unable to create a transport service item

Subprograms

Z-168
Z-175
Z-177
Z-191
Z-194
Z-194A
Z-197
Z-208
Z-211
Z-212
Z-213
Z-222
Z-223
Z-373
Z-402
Z-403
Z-404
Z-406
Z-407

Z-COP11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Copy a document.

You can either store the copy in the same cabinet (as defined with the parameter Cabinet) or in another cabinet (as defined with the parameter Target-cabinet). You can only copy a document to another cabinet when you are authorized to use this cabinet - therefore the password of the target cabinet is not required.

To copy a document to another cabinet of which you know the password, you can use Z-COP11B.

Enclosures are copied with the document. Cover notes, attached notes, address lists, keywords and procedures are not copied. The security levels are reset to 0, and the private flag is reset to blank. The expiration date is calculated from the date the document is copied.

When you copy a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to file Opened. In this case, END TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the document to be copied.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be copied. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be copied. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Target-cabinet	A8	R		To store the copy in another cabinet, you must specify the ID of the target cabinet. To store the copy in the same cabinet, you must specify the same ID as in the Cabinet parameter.
New-document-name	A32	R		The name for the copy.
New-folder	A15	O		The name of the folder in which the copy is to be stored. You must not specify a system folder (except Work). You can specify a TRS folder.
New-file	A15	O		The name of a file within the above folder in which the copy is to be stored.
Description	A60/1:4	O		A brief description for the copy.
Replace-flag	A1	O		If marked, an existing document with the same name as specified in the parameter New-document-name is replaced with the copy.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
16	Document is locked - editing was not completed
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
55	Requested folder/file does not exist

Subprograms

Z-GETMSM
Z-0211
Z-100
Z-106
Z-110
Z-120
Z-122
Z-123
Z-147
Z-150
Z-161
Z-165
Z-175
Z-177
Z-180
Z-185
Z-190
Z-191
Z-194
Z-194A
Z-197
Z-211
Z-222
Z-223
Z-373

Z-400
Z-401
Z-403
Z-404
Z-406
Z-407
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE        (N2)
0040 1 CABINET            (A8)
0050 1 PASSWORD           (A8)
0060 1 DOCUMENT-NAME      (A32)
0070 1 ISN                (P8)
0080 1 TARGET-CABINET     (A8)
0090 1 NEW-DOCUMENT-NAME  (A32)
0100 1 NEW-FOLDER         (A15)
0110 1 NEW-FILE           (A15)
0120 1 DESCRIPTION        (A60/1:4)
0130 1 REPLACE-FLAG       (A1)
0140 END-DEFINE
0150 *
0160 MOVE 'LS'              TO CABINET
0170 MOVE 'PSW'             TO PASSWORD
0180 MOVE 'DOCUMENT-NAME'   TO DOCUMENT-NAME
0190 MOVE 'ESH'             TO TARGET-CABINET
0200 MOVE 'NEW-DOC-NAME'    TO NEW-DOCUMENT-NAME
0210 MOVE 'Subject of new document' TO DESCRIPTION(1)
0220 *
0230 CALLNAT 'Z-COP11' RETURN-CODE CABINET PASSWORD DOCUMENT-NAME
0240   ISN TARGET-CABINET NEW-DOCUMENT-NAME NEW-FOLDER NEW-FILE
0250   DESCRIPTION(*) REPLACE-FLAG
0260 *
0270 IF RETURN-CODE NE 0
0280    WRITE  'Return code' RETURN-CODE
0290 ELSE
0300    WRITE 'Document was copied'
0310 END-IF
0320 END
0330 *
```

Z-COP11B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Copy a document.

You can either store the copy in the same cabinet (as defined with the parameter Cabinet) or in another cabinet (as defined with the parameter Target-cabinet).

To copy a document to another cabinet, you can specify the password of that cabinet. When you do not specify a password, it is checked whether you are authorized to use this cabinet. When you specify a password, the password is checked.

Enclosures are copied with the document. Cover notes, attached notes, address lists, keywords and procedures are not copied. The security levels are reset to 0, and the private flag is reset to blank. The expiration date is calculated from the date the document is copied.

When you copy a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to file Opened. In this case, END TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the document to be copied.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be copied. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be copied. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Target-cabinet	A8	R		To store the copy in another cabinet, you must specify the ID of the target cabinet. To store the copy in the same cabinet, you must specify the same ID as in the Cabinet parameter.
Target-password	A8	O		When the parameter Target-cabinet is specified and you are not authorized to use this cabinet, you must specify the password of the target cabinet. When you are authorized to use the target cabinet, the password is not required.
New-document-name	A32	R		The name for the copy.
New-folder	A15	O		The name of the folder in which the copy is to be stored. You must not specify a system folder (except Work). You can specify a TRS folder.
New-file	A15	O		The name of a file within the above folder in which the copy is to be stored.
Description	A60/1:4	O		A brief description for the copy.
Replace-flag	A1	O		If marked, an existing document with the same name as specified in the parameter New-document-name is replaced with the copy.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
16	Document is locked - editing was not completed
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
55	Requested folder/file does not exist

Subprograms

Z-GETMSM
Z-0211
Z-100
Z-106
Z-110
Z-120
Z-122
Z-123
Z-147
Z-150
Z-161
Z-165
Z-175
Z-177
Z-180
Z-185
Z-190
Z-191
Z-194
Z-194A
Z-197
Z-211
Z-222
Z-223
Z-373

Z-400
Z-401
Z-403
Z-404
Z-406
Z-407
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE       (N2)
0040 1 CABINET           (A8)
0050 1 PASSWORD          (A8)
0060 1 DOCUMENT-NAME     (A32)
0070 1 ISN               (P8)
0080 1 TARGET-CABINET    (A8)
0090 1 TARGET-PASSWORD   (A8)
0100 1 NEW-DOCUMENT-NAME (A32)
0110 1 NEW-FOLDER        (A15)
0120 1 NEW-FILE          (A15)
0130 1 DESCRIPTION       (A60/1:4)
0140 1 REPLACE-FLAG      (A1)
0150 END-DEFINE
0160 *
0170 MOVE 'LS'               TO CABINET
0180 MOVE 'LSPSW'            TO PASSWORD
0190 MOVE 'DOCUMENT-NAME'    TO DOCUMENT-NAME
0200 MOVE 'ESH'              TO TARGET-CABINET
0210 MOVE 'ESHPSW'           TO TARGET-PASSWORD
0220 MOVE 'NEW-DOC-NAME'     TO NEW-DOCUMENT-NAME
0230 MOVE 'Subject of new document' TO DESCRIPTION(1)
0240 *
0250 CALLNAT 'Z-COP11B' RETURN-CODE CABINET PASSWORD DOCUMENT-NAME
0260         ISN TARGET-CABINET TARGET-PASSWORD NEW-DOCUMENT-NAME
0270         NEW-FOLDER NEW-FILE DESCRIPTION(*) REPLACE-FLAG
0280 *
0290 IF RETURN-CODE NE 0
0300   WRITE 'Return code' RETURN-CODE
0310 ELSE
0320   WRITE 'Document was copied'
0330 END-IF
0340 END
```

Z-COP11C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Copy a document.

You can specify whether keywords and enclosures are to be copied with the document or not.

You can either store the copy in the same cabinet (as defined with the parameter Cabinet) or in another cabinet (as defined with the parameter Target-cabinet).

To copy a document to another cabinet, you can specify the password of that cabinet. When you do not specify a password, it is checked whether you are authorized to use this cabinet. When you specify a password, the password is checked.

Cover notes, attached notes, address lists and procedures are not copied. The security levels are reset to 0, and the private flag is reset to blank. The expiration date is calculated from the date the document is copied.

When you copy a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to file Opened. In this case, END TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the document to be copied.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be copied. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be copied. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Target-cabinet	A8	R		To store the copy in another cabinet, you must specify the ID of the target cabinet. To store the copy in the same cabinet, you must specify the same ID as in the Cabinet parameter.
Target-password	A8	O		When the parameter Target-cabinet is specified and you are not authorized to use this cabinet, you must specify the password of the target cabinet. When you are authorized to use the target cabinet, the password is not required.
New-document-name	A32	R		The name for the copy.
New-folder	A15	O		The name of the folder in which the copy is to be stored. You must not specify a system folder (except Work). You can specify a TRS folder.
New-file	A15	O		The name of a file within the above folder in which the copy is to be stored.
Description	A60/1:4	O		A brief description for the copy.
Replace-flag	A1	O		If marked, an existing document with the same name as specified in the parameter New-document-name is replaced with the copy.
Keyword-flag	A1	O		If marked, the keywords are copied with the document.
Enclosure-flag	A1	O		If marked, the enclosures are copied with the document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
16	Document is locked - editing was not completed
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
55	Requested folder/file does not exist

Subprograms

Z-GETMSM
Z-0211
Z-100
Z-106
Z-110
Z-120
Z-122
Z-123
Z-147
Z-150
Z-161
Z-165
Z-175
Z-177
Z-180
Z-185
Z-190
Z-191
Z-194
Z-194A
Z-197
Z-211
Z-222
Z-223
Z-373

Z-400
Z-401
Z-403
Z-404
Z-406
Z-407
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE       (N2)
0040 1 CABINET           (A8)
0050 1 PASSWORD          (A8)
0060 1 DOCUMENT-NAME     (A32)
0070 1 ISN               (P8)
0080 1 TARGET-CABINET    (A8)
0090 1 TARGET-PASSWORD   (A8)
0100 1 NEW-DOCUMENT-NAME (A32)
0110 1 NEW-FOLDER        (A15)
0120 1 NEW-FILE          (A15)
0130 1 DESCRIPTION       (A60/1:4)
0140 1 REPLACE-FLAG      (A1)
0150 1 KEYWORD-FLAG      (A1)
0160 1 ENCLOSURE-FLAG    (A1)
0170 END-DEFINE
0180 *
0190 MOVE 'X'        TO REPLACE-FLAG
0200 MOVE 'X'        TO KEYWORD-FLAG
0210 MOVE 'X'        TO ENCLOSURE-FLAG
0220 *
0230 MOVE -1         TO RETURN-CODE
0240 MOVE 'LS      ' TO CABINET
0250 MOVE '        ' TO PASSWORD
0260 *
0270 MOVE 'ESH     ' TO TARGET-CABINET
0280 MOVE '        ' TO TARGET-PASSWORD
0290 *
0300 MOVE 'Sharks'   TO DOCUMENT-NAME
0310 MOVE 'Work'     TO NEW-FOLDER
0320 MOVE 'Sharks-Copy' TO NEW-DOCUMENT-NAME
0330 COMPRESS 'Created ' *DATX *TIMX 'using Z-COP11C'
0340              INTO DESCRIPTION (1)
0350 *
0360 *
0370  CALLNAT 'Z-COP11C'
0380   RETURN-CODE
0390   CABINET
0400   PASSWORD
0410   DOCUMENT-NAME
0420   ISN
0430   TARGET-CABINET
0440   TARGET-PASSWORD
0450   NEW-DOCUMENT-NAME
0460   NEW-FOLDER
0470   NEW-FILE
0480   DESCRIPTION (*)
0490   REPLACE-FLAG
0500   KEYWORD-FLAG
```

```
0510   ENCLOSURE-FLAG
0520 *
0530 WRITE
0540 '='  RETURN-CODE //
0550 'O L D'          /
0560 '====='          /
0570 'Cabinet :'  CABINET
0580 'Password:'  PASSWORD /
0590 'Name    :'  DOCUMENT-NAME /
0600 'ISN     :'  ISN //
0610 'N E W'          /
0620 '====='          /
0630 'Cabinet :'  TARGET-CABINET
0640 'Password:'  TARGET-PASSWORD /
0650 'Name    :'  NEW-DOCUMENT-NAME /
0660 'Folder  :'  NEW-FOLDER /
0670 'Descrip.:'  DESCRIPTION (*) //
0680 '='  REPLACE-FLAG
0690 '='  KEYWORD-FLAG
0700 '='  ENCLOSURE-FLAG
0710 *
0720 IF RETURN-CODE EQ 0
0730   BACKOUT TRANSACTION    /* do not save copy
0740 END-IF
0750 *
0760 END
```

Z-COP11X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Copy a document.

This subprogram is the same as Z-COP11 with the one exception that the parameter ISN uses the format P10.

You can either store the copy in the same cabinet (as defined with the parameter Cabinet) or in another cabinet (as defined with the parameter Target-cabinet). You can only copy a document to another cabinet when you are authorized to use this cabinet - therefore the password of the target cabinet is not required.

To copy a document to another cabinet of which you know the password, you can use Z-COP11B.

Enclosures are copied with the document. Cover notes, attached notes, address lists, keywords and procedures are not copied. The security levels are reset to 0, and the private flag is reset to blank. The expiration date is calculated from the date the document is copied.

When you copy a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to file Opened. In this case, END TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the document to be copied.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be copied. Either Document-name or ISN, not both.
ISN	P10	R*		The ISN of the document to be copied. Either ISN or Document-name, not both. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
Target-cabinet	A8	R		To store the copy in another cabinet, you must specify the ID of the target cabinet. To store the copy in the same cabinet, you must specify the same ID as in the Cabinet parameter.
New-document-name	A32	R		The name for the copy.
New-folder	A15	O		The name of the folder in which the copy is to be stored. You must not specify a system folder (except Work). You can specify a TRS folder.
New-file	A15	O		The name of a file within the above folder in which the copy is to be stored.
Description	A60/1:4	O		A brief description for the copy.
Replace-flag	A1	O		If marked, an existing document with the same name as specified in the parameter New-document-name is replaced with the copy.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
16	Document is locked - editing was not completed
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
55	Requested folder/file does not exist

Subprograms

Z-GETMSM
Z-0211
Z-100
Z-106
Z-110
Z-120
Z-122
Z-123
Z-147
Z-150
Z-161
Z-165
Z-175
Z-177
Z-180
Z-185
Z-190
Z-191
Z-194
Z-194A
Z-197
Z-211
Z-222
Z-223
Z-373

Z-400
Z-401
Z-403
Z-404
Z-406
Z-407
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE        (N2)
0040 1 CABINET            (A8)
0050 1 PASSWORD           (A8)
0060 1 DOCUMENT-NAME      (A32)
0070 1 ISN                (P10)
0080 1 TARGET-CABINET     (A8)
0090 1 NEW-DOCUMENT-NAME  (A32)
0100 1 NEW-FOLDER         (A15)
0110 1 NEW-FILE           (A15)
0120 1 DESCRIPTION        (A60/1:4)
0130 1 REPLACE-FLAG       (A1)
0140 END-DEFINE
0150 *
0160 MOVE 'LS'              TO CABINET
0170 MOVE 'PSW'             TO PASSWORD
0180 MOVE 'DOCUMENT-NAME'   TO DOCUMENT-NAME
0190 MOVE 'ESH'             TO TARGET-CABINET
0200 MOVE 'NEW-DOC-NAME'    TO NEW-DOCUMENT-NAME
0210 MOVE 'Subject of new document' TO DESCRIPTION(1)
0220 *
0230 CALLNAT 'Z-COP11X' RETURN-CODE CABINET PASSWORD DOCUMENT-NAME
0240   ISN TARGET-CABINET NEW-DOCUMENT-NAME NEW-FOLDER NEW-FILE
0250   DESCRIPTION(*) REPLACE-FLAG
0260 *
0270 IF RETURN-CODE NE 0
0280    WRITE  'Return code ' RETURN-CODE
0290 ELSE
0300    WRITE 'Document was copied'
0310 END-IF
0320 END
0330 *
```

Z-DETACH

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Detach cover notes, enclosed documents or attached notes from a document. Or detach attached notes from an appointment or meeting.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document, appointment or meeting is stored.
Password	A8	R		The password of the above cabinet.
Command	A1	R		Must be one of the following: D=detach, E=erase.
Text-type	A1	R		Only required for documents. The type of object to be detached: C=cover note, E=enclosed document, N=attached note.
Text-type-current	P3	R*		The sequence number of the cover note, enclosure or attached note to be detached. Must be specified separately for each text type to be detached. You must specify only one of the following parameters: Text-type-current, Note-subject or Attachment-ISN.
Note-subject	A32	R*		Applies only to attached notes. The subject of the attached note to be detached. You must specify only one of the following parameters: Text-type-current, Note-subject or Attachment-ISN.
Attachment-ISN	P10	R*	X	Input: the ISN of the cover note, enclosure or attached note to be detached. You can invoke Z-GET11D prior to this subprogram to obtain the ISN. You must specify only one of the following parameters: Text-type-current, Note-subject or Attachment-ISN. Output: the ISN of the detached object.
Host-object-number	N2	R		The number of the object from which the cover note, enclosure or attached note is to be detached. Must be one of the following: 3=appointment, 11=document, 16=meeting.
Host-object-name	A32	R*		Only required for documents. The name of the document from which the cover note, enclosure or attached note is to be detached. Either Host-object-name or Host-object-ISN, not both.
Host-object-ISN	P10	R*	X	Input: the ISN of the object from which the cover note, enclosure or attached note is to be detached. For an appointment or meeting, this parameter is required. For a document, specify either Host-object-ISN or Host-object-name, not both. Output: the ISN of the object from which the cover note, enclosure or attached note was detached.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN of host object was not found
08	Supply either ISN or name for host object, not both
09	ISN of host object does not point to document, meeting or appointment
13	Invalid host object number
51	Invalid host object name
53	Requested object does not exist
59	Requested command (D or E) not found
91	Invalid Text-type
92	Invalid Text-type-current
93	Cover note, enclosure or attached note does not exist
94	Document is not in folder Work or a user-defined folder
95	Error creating separate detached document
96	Specify only one: Text-type-current, Note-subject or Attachment-ISN
97	Invalid note subject

Subprograms

N-GETMSG
Z-120
Z-122
Z-123
Z-135
Z-161
Z-175
Z-180
Z-711
Z-1200&0

Example

```
0010 *
0020 * Example program to detach a note from a meeting/appointment
0030 *
0040 *
0050 DEFINE DATA
0060 *
0070 LOCAL
```

```
0080 1 RETURN-CODE      (N2)
0090 1 CABINET          (A8)
0100 1 PASSWORD         (A8)
0110 1 COMMAND          (A1)     /* D=detach, E=erase
0120 1 TEXT-TYPE        (A1)     /* N=attached note, C=cover note,E=enclosed
0130 1 TEXT-TYPE-CURRENT(N2)     /* Sequence number of item to be detached
0140 *                              (for each type (N/C/E) - separately).
0150 1 NOTE-SUBJECT     (A32)
0160 1 ATTACHMENT-ISN   (P10)
0170 1 HOST-OBJECT-NUMBER(N2)
0180 1 HOST-OBJECT-NAME (A32)
0190 1 HOST-OBJECT-ISN  (P10)
0200 * ----------------------------
0210 1 START-DATE       (A8)     /* Parameters for Z-GET06B
0220 1 START-TIME       (A8)
0230 1 END-DATE         (A8)
0240 1 END-TIME         (A8)
0250 1 SUBJECT          (A20)
0260 1 DESCRIPTION      (A60/1:3)
0270 1 LOCATION         (A60)
0280 1 AGENDA           (A32)
0290 1 KEYWORDS         (A15/1:6)
0300 1 PRIVATE-FLAG     (A1)
0310 1 SECURITY-FLAGS   (A1/1:4)
0320 1 OBJECT-NUMBER    (N2)
0330 1 RANGE-TYPE       (A1)
0340 1 NO-OCCUPATION    (A1)
0350 1 CURRENT-DATE     (A8)
0360 1 CURRENT-START    (A8)
0370 1 CURRENT-END      (A8)
0380 1 CALENDER-ISN     (P10)   /* ISN  of record is returned
0390 1 ONLY-FIRST       (A1)    /* Only the first record of a multiple-day
0400 *                             calendar item is returned
0410 1 NOTES            (N2)    /* Number of attached notes returned
0420 1 WORK-PARAMETER   (A40)
0430 * ----------------------------
0440 1 MEETING-FOUND    (L)    INIT < FALSE >
0450 *
0460 END-DEFINE
0470 *
0480 RESET RETURN-CODE
0490 MOVE 'CABINET ' TO CABINET
0500 MOVE 'PASSWORD' TO PASSWORD
0510 MOVE '19971231' TO START-DATE
0520 MOVE '2000'     TO START-TIME
0530 MOVE 'X'        TO ONLY-FIRST
0540 *
0550 REPEAT UNTIL RETURN-CODE NE 0
0560 *
0570   CALLNAT 'Z-GET06B' RETURN-CODE
0580     CABINET
0590     PASSWORD
0600     START-DATE
0610     START-TIME
0620     END-DATE
0630     END-TIME
0640     SUBJECT
0650     DESCRIPTION(*)
0660     LOCATION
0670     AGENDA
0680     KEYWORDS(*)
0690     PRIVATE-FLAG
```

```
0700     SECURITY-FLAGS(*)
0710     OBJECT-NUMBER
0720     RANGE-TYPE
0730     NO-OCCUPATION
0740     CURRENT-DATE
0750     CURRENT-START
0760     CURRENT-END
0770     CALENDAR-ISN
0780     ONLY-FIRST
0790     NOTES
0800     WORK-PARAMETER
0810   IF CALENDAR-ISN NE 0
0820       AND  START-DATE EQ '19971231'
0830       AND  START-TIME EQ '    2000'
0840       AND  SUBJECT EQ 'MEET-SUBJ'
0850     MOVE TRUE TO MEETING-FOUND
0860     ESCAPE BOTTOM     /* Go to the note to be detached from the meeting
0870   END-IF
0880 END-REPEAT
0890 *
0900 IF MEETING-FOUND
0910   MOVE 'D'            TO COMMAND
0920   MOVE 'N'            TO TEXT-TYPE
0930   MOVE 'Meeting Notes'TO NOTE-SUBJECT
0940   MOVE  16            TO HOST-OBJECT-NUMBER  /* Meeting
0950   MOVE  CALENDAR-ISN  TO HOST-OBJECT-ISN     /* ISN was found in Z-GET06B
0960   CALLNAT 'Z-DETACH'
0970     RETURN-CODE
0980     CABINET
0990     PASSWORD
1000     COMMAND
1010     TEXT-TYPE
1020     TEXT-TYPE-CURRENT
1030     NOTE-SUBJECT
1040     ATTACHMENT-ISN
1050     HOST-OBJECT-NUMBER
1060     HOST-OBJECT-NAME
1070     HOST-OBJECT-ISN
1080 *
1090   IF RETURN-CODE EQ 00 OR EQ -1
1100     WRITE 'Note was detached'  /
1110     WRITE 'ISN of document created' ATTACHMENT-ISN
1120   ELSE
1130     WRITE 'Return code ' RETURN-CODE  /
1140   END-IF
1150 ELSE
1160   WRITE 'Meeting not found'
1170 END-IF
1180 *
1190 END
```

Z-DIS04

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Display a list of all bulletin boards in alphabetical order.

A value of 0 is returned in the parameter Newest-item if:

- nothing was found;
- the date of the newest item on the bulletin board is prior to the date in the parameter Start-date;
- the parameter All-objects was left blank (meaning that only documents are to be returned) and there are no documents.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list. The parameters Start-date, All-objects and Number can be modified between iterative calls.

Note:
This subprogram can be used in conjunction with Z-DIS04A and Z-GET04.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Start-date	A8	O		Format yyyymmdd. When you enter an invalid format, it is set to 0.
Bulletin-start-name	A8	O		Start value. The name of a bulletin board. If Bulletin-start-name is not specified, a list of all bulletin boards is returned.
All-objects	A1	O		If marked, all objects are returned. If blank, only documents are returned.
Number	N2	O		The maximum number of bulletin boards that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Occurrence	N2		X	Number of objects returned with this call.
Bulletin-table (20)				
Name	A15		X	The name of the bulletin board.
Description-1	A60		X	The first line of description of the bulletin board.
Description-2	A60		X	The second line of description of the bulletin board.
Newest-item	N8		X	Format yyyymmdd. The date of the newest item on the bulletin board. The value 0 can also be returned; see the above description.
Work-parameter	A15			For internal use. See **The Work Parameter**.

Return Codes

00	Success
77	End of list

Subprograms

None

Z-DIS04A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Display the contents of a specific bulletin board in chronological order.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list. The Number parameter can be modified between iterative calls.

Note:
This subprogram can be used in conjunction with Z-GET04.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Bulletin-name	A15	R		The name of the bulletin board for which you want to display the contents.
Start-date	A8	O		Format yyyymmdd. When you enter an invalid format, it is set to 0.
Sequence	N1	O		1 (ascending) or 2 (descending). Default: 1.
All-objects	A1	O		If marked, all objects are returned. If blank, only documents are returned.
Number	N2	O		The maximum number of objects that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Occurrence	N2		X	Number of objects returned with this call.
Bulletin-table (20)				
ISN	P8		X	The ISN of the object which has been sent to the bulletin board.
Subject	A60		X	The subject of the object which has been sent to the bulletin board.
Date-delivered	N8		X	Format yyyymmdd. The date when the object was delivered to the bulletin board.
Sent-by-name	A20		X	The name of the user who sent the object to the bulletin board.
Document-format	A1		X	Any value other than 0 to 9 indicates that the object is not a document. See **Document Formats**.
Work-parameter	A34			For internal use. See **The Work Parameter**.

Return Codes

00	Success
77	End of list
90	Bulletin board name required
91	Bulletin board does not exist

Subprograms

None

Z-DIS04X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display the contents of a specific bulletin board in chronological order.

This subprogram is the same as Z-DIS04A with the one exception that the parameter ISN uses the format P10.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list. The Number parameter can be modified between iterative calls.

Note:
This subprogram can be used in conjunction with Z-GET04X.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Bulletin-name	A15	R		The name of the bulletin board for which you want to display the contents.
Start-date	A8	O		Format yyyymmdd. When you enter an invalid format, it is set to 0.
Sequence	N1	O		1 (ascending) or 2 (descending). Default: 1.
All-objects	A1	O		If marked, all objects are returned. If blank, only documents are returned.
Number	N2	O		The maximum number of objects that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Occurrence	N2		X	Number of objects returned with this call.
Bulletin-table (20)				
ISN	P10		X	The ISN of the object which has been sent to the bulletin board.
Subject	A60		X	The subject of the object which has been sent to the bulletin board.
Date-delivered	N8		X	Format yyyymmdd. The date when the object was delivered to the bulletin board.
Sent-by-name	A20		X	The name of the user who sent the object to the bulletin board.
Document-format	A1		X	Any value other than 0 to 9 indicates that the object is not a document. See **Document Formats**.
Work-parameter	A34			For internal use. See **The Work Parameter**.

Return Codes

00	Success
77	End of list
90	Bulletin board name required
91	Bulletin board does not exist

Subprograms

None

Example

```
0010 *
0020 * Example program to display the contents of a specific bulletin board
0030 * in chronological order.
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE       (N2)
0080 1 BULLETIN-NAME     (A15)
0090 1 START-DATE        (A8)
0100 1 SEQUENCE          (N1)
0110 1 ALL-OBJECTS       (A1)
0120 1 NUMBER            (N2)
0130 1 OCCURRENCE        (N2)
0140 1 BULLETIN-TABLE    (20)
0150   2 ISN             (P10)
0160   2 SUBJECT         (A60)
0170   2 DATE-DELIVERED  (N8)
0180   2 SENT-BY-NAME    (A20)
0190   2 DOCUMENT-FORMAT (A1)
0200                     /* 0 Txt
0210                     /* 1 Cnf
0220                     /* 2 Bin
0230                     /* 3 Int
0240                     /* 4 RFT-DCA
0250                     /* 5 printer profile
0260                     /* 6 Src
0270                     /* 7 FFT-DCA
0280                     /* 8 Obj
0290                     /* 9 Vce
0300                     /* else: no document
0310 *
0320 1 WORK-PARAMETER    (A34)
0330 1 #INDEX            (N2)
0340 *
0350 END-DEFINE
0360 *
0370 RESET RETURN-CODE
0380 MOVE 'BULLETIN'   TO BULLETIN-NAME
0390 MOVE '20000101'   TO START-DATE
0400 MOVE 1            TO SEQUENCE
0410 MOVE 'X'          TO ALL-OBJECTS
0420 MOVE 20           TO NUMBER
0430 *
0440 REPEAT UNTIL RETURN-CODE NE 0
0450 *
0460   CALLNAT 'Z-DIS04X' RETURN-CODE
0470                      BULLETIN-NAME
0480                      START-DATE
0490                      SEQUENCE
0500                      ALL-OBJECTS
0510                      NUMBER
0520                      OCCURRENCE
0530                      BULLETIN-TABLE(*)
0540                      WORK-PARAMETER
0550 *
0560   FOR #INDEX 1 TO OCCURRENCE
0570       IF ISN(#INDEX) NE 0
0580           WRITE NOTITLE (SG=OFF ZP=OFF AD=L)
0590                 '=' #INDEX
0600                 / 'ISN            ' ISN(#INDEX)
```

```
0610                 / 'Subject        ' SUBJECT(#INDEX) (AL=15)
0620                 / 'Date sent      ' DATE-DELIVERED(#INDEX)
0630                 / 'Sent by name   ' SENT-BY-NAME(#INDEX)
0640                 / 'Document format' DOCUMENT-FORMAT(#INDEX) /
0650           NEWPAGE
0660       END-IF
0670   END-FOR
0680 END-REPEAT
0690 *
0700 WRITE  'Return code ' RETURN-CODE
0710 *
0720 END
```

Z-DIS05

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Display a list of cabinets sorted alphabetically by cabinet name.

You can either display a list of all cabinet types or of just a specific cabinet type (private, standalone, shared or public). You must specify the cabinet type in the parameter Start-cabinet-type.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		Any user can invoke this subprogram.
Password	A8	R		The password of the above cabinet.
Start-cabinet	A8	O		Start value. The name of a cabinet. If Start-cabinet is not specified, a list of all cabinets of the specified cabinet type is returned.
Start-cabinet-type	N1	R		0=private cabinet, 1=standalone cabinet, 2=shared cabinet, 3=public cabinet, 9=all cabinet types.
Number	N2	O		The maximum number of cabinets that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Cabinet-table (20)				
Cabinet-name	A8		X	The name of the cabinet.
Cabinet-type	A1		X	0=private cabinet, 1=standalone cabinet, 2=shared cabinet, 3=public cabinet.
User-last-name	A32		X	For cabinet type 0: the user’s last name. For cabinet types 1, 2 and 3: the description of the cabinet.
User-first-name	A32		X	Is only used with cabinet type 0: the user’s first name.
User-initial	A1		X	Is only used with cabinet type 0: the user’s middle initial.
Disallow-mail	A1		X	Is only used with cabinet types 1, 2 and 3. If marked, the cabinet is not able to receive or send mail.
Owner	A1		X	If marked, an administrator has been specified as the owner of the cabinet.
Administrator	A1		X	Only applies to an administrator cabinet: X=system administrator, A=cabinet administrator, S=supervisor.
Cabinet-ISN	P8		X	The ISN of the cabinet.
Work-parameter	A42			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list
91	Cabinet type not specified or specified incorrectly

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Z-DIS05A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of cabinets with backup information.

You can either display a list of all cabinet types or just a specific cabinet type (private, standalone, shared, public or SYSCNT). You must specify the cabinet type in the parameter Start-cabinet-type.

If the parameter Start-cabinet-type contains the value 4 or 9, backup information for cabinet SYSCNT is displayed.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		Any user can invoke this subprogram.
Password	A8	R		The password of the above cabinet.
Start-cabinet	A8	O		Start value. The name of a cabinet. If Start-cabinet is not specified, a list of all cabinets of the specified cabinet type is returned.
Start-cabinet-type	N1	R		0=private cabinet, 1=standalone cabinet, 2=shared cabinet, 3=public cabinet, 4=cabinet SYSCNT, 9=all cabinet types.
Selection-criterion	N1	R		0=all cabinets backed up, 1=all cabinets marked for deletion, 2=all cabinets marked for deletion and backed up, 3=all cabinets marked for deletion and not backed up, 9=all cabinets.
Number	N2	O		The maximum number of cabinets that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.

Parameter	Format	In	Out	Remarks
Days-between	N4		X	The number of days between backup and deletion. The value is taken from the system defaults.
Cabinet-table (20)				
Cabinet-name	A8		X	The name of the cabinet.
Cabinet-type	A1		X	0=private cabinet, 1=standalone cabinet, 2=shared cabinet, 3=public cabinet, 4=cabinet SYSCNT.
User-last-name	A32		X	For cabinet type 0: the user's last name. For cabinet types 1 to 3: the description of the cabinet. Not valid for cabinet type 4.
User-first-name	A32		X	Only used with cabinet type 0: the user's first name.
Last-backup-date	N8/1:2		X	The dates of the last two backups. Format yyyymmdd.
Last-backup-time	N4/1:2		X	The times of the last two backups. Format hhmm.
Date-range-start	N8/1:2		X	Last two starting dates of the date range for backed up objects. Format yyyymmdd.
Date-range-end	N8/1:2		X	Last two ending dates of the date range for backed up objects. Format yyyymmdd.
Marked-for-deletion	A1		X	If marked, the cabinet is marked for deletion.
Deletion-date	N8		X	The date when the cabinet is to be deleted. Format yyyymmdd.
Deletion-time	N4		X	The time when the cabinet is to be deleted. Format hhmm.
Cabinet-ISN	P10		X	The ISN of the cabinet.
Work-parameter	A42			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list
91	Start-cabinet-type not specified or specified incorrectly
92	Incorrect selection criterion (must be 0, 1, 2, 3 or 9)

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to display a list of cabinets with backup information
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE           (N2)
0070 1 CABINET               (A8)
0080 1 PASSWORD              (A8)
0090 1 START-CABINET         (A8)
0100 1 START-CABINET-TYPE    (N1)
0110 1 SELECTION-CRITERION   (N1)
0120 1 NUMBER                (N2)
0130 1 DAYS-BETWEEN          (N4)
0140 1 CABINET-TABLE (20)
0150   2 CABINET-NAME        (A8)
0160   2 CABINET-TYPE        (A1)
0170   2 USER-LAST-NAME      (A32)
0180   2 USER-FIRST-NAME     (A32)
0190   2 LAST-BACKUP-DATE    (N8/2)
0200   2 LAST-BACKUP-TIME    (N4/2)
0210   2 DATE-RANGE-START    (N8/2)
0220   2 DATE-RANGE-END      (N8/2)
0230   2 MARKED-FOR-DELETION (A1)
0240   2 DELETION-DATE       (N8)
0250   2 DELETION-TIME       (N4)
0260   2 CABINET-ISN         (P10)
0270 1 WORK-PARAMETER        (A42)
0280 1 INDEX                 (N2)
0290 *
0300 END-DEFINE
0310 *
0320 RESET RETURN-CODE
0330 MOVE ’CABINET’   TO  CABINET
0340 MOVE ’PASSWORD’  TO  PASSWORD
0350 MOVE ’ZZT-555 ’  TO  START-CABINET
0360 MOVE  9          TO  START-CABINET-TYPE
0370 MOVE  9          TO  SELECTION-CRITERION
0380 MOVE  20         TO  NUMBER
0390 *
0400 REPEAT UNTIL RETURN-CODE NE 0
0410 *
0420   CALLNAT ’Z-DIS05A’
0430     RETURN-CODE
0440     CABINET
0450     PASSWORD
0460     START-CABINET
0470     START-CABINET-TYPE
0480     SELECTION-CRITERION
0490     NUMBER
0500     DAYS-BETWEEN
0510     CABINET-TABLE(*)
0520     WORK-PARAMETER
0530 *
0540   FOR INDEX 1 TO NUMBER
0550     IF CABINET-ISN(INDEX) NE 0
0560       WRITE  NOTITLE (SG=OFF ZP=OFF AD=L )
0570         ’Days between ’  DAYS-BETWEEN (ZP=ON)
0580         /  ’Cabinet name   ’  CABINET-NAME(INDEX)
0590         /  ’Cabinet type   ’  CABINET-TYPE(INDEX)
0600         /  ’User last name ’  USER-LAST-NAME(INDEX)
```

```
0610         /  'User first name'  USER-FIRST-NAME(INDEX)
0620         /  'Cabinet ISN    '  CABINET-ISN(INDEX)
0630         /  'Backup date (1)'  LAST-BACKUP-DATE(INDEX,1)
0640         /  'Backup time (1)'  LAST-BACKUP-TIME(INDEX,1)
0650         /  'Backup date (2)'  LAST-BACKUP-DATE(INDEX,2)
0660         /  'Backup time (2)'  LAST-BACKUP-TIME(INDEX,2)
0670         /  'Date from   (1)'  DATE-RANGE-START(INDEX,1)
0680         /  'Date to     (1)'  DATE-RANGE-END(INDEX,1)
0690         /  'Date from   (2)'  DATE-RANGE-START(INDEX,2)
0700         /  'Date to     (2)'  DATE-RANGE-END(INDEX,2)
0710         /  'Deletion Date  '  DELETION-DATE(INDEX)
0720         /  'Deletion Time  '  DELETION-TIME(INDEX)
0730         /  'Marked for     '  MARKED-FOR-DELETION(INDEX)
0740         /  '  deletion     '
0750       NEWPAGE
0760     END-IF
0770   END-FOR
0780 END-REPEAT
0790 WRITE   'Return code ' RETURN-CODE
0800 END
```

Z-DIS05F

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display the cabinet profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram. To modify the cabinet profile, you can invoke Z-MOD05F after this subprogram.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be displayed. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be displayed. Either Cabinet-ISN or Cabinet-name, not both.
Security-flags	A4		X	See the redefinition below.
Redefine Security-flags				
Security-read	A1		X	The security level for Read. A value between 0 and 9.
Security-modify	A1		X	The security level for Modify. A value between 0 and 9.
Security-copy	A1		X	The security level for Copy. A value between 0 and 9.
Security-print	A1		X	The security level for Print. A value between 0 and 9.
Send-maximum	N4		X	The maximum number of addressees to whom an object can be sent during one Send operation. Values 1 to 9999.

Parameter	Format	In	Out	Remarks
Address-level	N1		X	The address level establishes limitations for the Send function. A value between 0 and 9.
Send-plus	N1		X	The number of levels higher to which the user is allowed to send mail. A value between 0 and 9.
Allow-flags	A12		X	See the redefinition below.
Redefine Allow-flags				
Command-prompt	A1		X	If marked, a window appears, if a faulty or ambiguous command is entered.
Con-form	A1		X	If marked, Con-form can be used.
Text-Retrieval	A1		X	If marked, Con-nect Text Retrieval can be used (if installed).
Proofreader	A1		X	Con-nect Proofreader is no longer supported.
Modify-own-address	A1		X	If marked, the user can change the own work or home address.
Display-home-address	A1		X	If marked, the user can display the home address of any user (including the user's own address).
Send-external-mail	A1		X	If marked, the user can send mail to external nodes such as Telex or SNADS.
Modify-expiration-date	A1		X	If marked, the user can change the expiration date of an object.
Read-mail	A1		X	If marked, the user can read mail in the user's own Inbasket.
Filler	A3		X	For future use.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to display the cabinet profile of a user
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE              (N2)
0080 1 CABINET                  (A8)
0090 1 PASSWORD                 (A8)
0100 1 CABINET-NAME             (A8)
0110 1 CABINET-ISN              (P8)
0120 1 SECURITY-FLAGS           (A4)
0130 1 REDEFINE SECURITY-FLAGS
0140   2 SECURITY-READ          (A1)
0150   2 SECURITY-MODIFY        (A1)
0160   2 SECURITY-COPY          (A1)
0170   2 SECURITY-PRINT         (A1)
0180 1 SEND-MAXIMUM             (N4)
0190 1 ADDRESS-LEVEL            (N1)
0200 1 SEND-PLUS                (N1)
0210 1 ALLOW-FLAGS              (A12)
0220 1 REDEFINE ALLOW-FLAGS
0230   2 COMMAND-PROMPT         (A1)
0240   2 CON-FORM               (A1)
0250   2 TEXT-RETRIEVAL         (A1)
0260   2 PROOFREADER            (A1)
0270   2 MODIFY-OWN-ADDRESS     (A1)
0280   2 DISPLAY-HOME-ADDRESS   (A1)
0290   2 SEND-EXTERNAL-MAIL     (A1)
0300   2 MODIFY-EXPIRATION-DATE (A1)
0310   2 READ-MAIL              (A1)
0320 END-DEFINE
0330 *
0340 RESET RETURN-CODE
0350 MOVE 'CABINET'      TO CABINET
0360 MOVE 'PASSWORD'     TO PASSWORD
0370 MOVE 'CAB-NAME'     TO CABINET-NAME
0380 *
0390 CALLNAT 'Z-DIS05F'
0400     RETURN-CODE
0410     CABINET
0420     PASSWORD
0430     CABINET-NAME
0440     CABINET-ISN
0450     SECURITY-FLAGS
0460     SEND-MAXIMUM
0470     ADDRESS-LEVEL
0480     SEND-PLUS
0490     ALLOW-FLAGS
0500 *
```

```
0510 IF RETURN-CODE = 0
0520   DISPLAY CABINET-NAME SECURITY-FLAGS SEND-MAXIMUM ADDRESS-LEVEL
0530   SEND-PLUS ALLOW-FLAGS
0540 ELSE
0550   WRITE ’Return code’ RETURN-CODE
0560 END-IF
0570 *
0580 END
```

Z-DIS05I

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display the date and time formats and the sliding window (YSLW) value in the user profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram. To modify the profile, you can invoke Z-MOD05I after this subprogram.

The sequence of the values 1 to 5 in the Date-format parameter defines the order in which the day, month and year appear in all screens. The values mean:

1 The day is shown as a number.

2 The month is shown as a number.

3 The year is shown as a two-digit number.

4 The month is shown as a three-letter abbreviation.

5 The year is shown as a four-digit number.

A delimiter separates the day, month and year values. For example, the values 1.4.3 in the parameter Date-format indicate that the date appears as 24.Dec.99 in all screens.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be diplayed. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be displayed. Either Cabinet-ISN or Cabinet-name, not both.
Date-format	A5		X	See the description above.
Time-format	N1		X	0=24 hour, 1=am/pm
Time-delimiter	A1		X	Character to separate hours and minutes.
Timezone	N2		X	The timezone in which the user is located, relative to the CPU's timezone.
Week-start	N1		X	Values 1 to 7 specify the first day of the week to be shown in the Con-nect menu and the calendar screens. 1=Monday, 2=Tuesday ... 7=Sunday.
Day-start	N4		X	Values 0 to 23 specify the start of a 10-hour period which includes the user's working day. 0=midnight ... 9=9:00 am ... 13=1:00 pm ...
Use-system-SLW	A1		X	If marked, the value of the sliding window defined in the system defaults is used.
Sliding-window	A2		X	A value between 0 and 99.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 Example program to display date and time formats.
0020 *
0030 DEFINE DATA
0040 LOCAL
0050 *
0060 1 RETURN-CODE      (N2)
0070 1 CABINET          (A8)
0080 1 PASSWORD         (A8)
0090 1 CABINET-NAME     (A8)
0100 1 CABINET-ISN      (P8)
0110 1 DATE-FORMAT      (A5)
0120 1 TIME-FORMAT      (N1)
0130 1 TIME-DELIMITER   (A1)
0140 1 TIMEZONE         (N2)
0150 1 WEEK-START       (N1)
0160 1 DAY-START        (N4)
0170 1 USE-SYSTEM-SLW   (A1)
0180 1 SLIDING-WINDOW   (N2)
0190 END-DEFINE
0200 *
0210 RESET RETURN-CODE
0220 MOVE 'CABINET ' TO CABINET
0230 MOVE 'PASSWORD' TO PASSWORD
0240 MOVE 'CAB-NAME' TO CABINET-NAME
0250 *
0260 CALLNAT 'Z-DIS05I' RETURN-CODE
0270   CABINET
0280   PASSWORD
0290   CABINET-NAME
0300   CABINET-ISN
0310   DATE-FORMAT
0320   TIME-FORMAT
0330   TIME-DELIMITER
0340   TIMEZONE
0350   WEEK-START
0360   DAY-START
0370   USE-SYSTEM-SLW
0380   SLIDING-WINDOW
0390 *
0400 IF RETURN-CODE EQ 0
0410 WRITE
0420   / '='  CABINET
0430   / '='  PASSWORD
0440   / '='  CABINET-NAME
0450   / '='  CABINET-ISN
0460   / '='  DATE-FORMAT
0470   / '='  TIME-FORMAT
0480   / '='  TIME-DELIMITER
0490   / '='  TIMEZONE
0500   / '='  WEEK-START
```

```
0510   / '='  DAY-START
0520   / '='  USE-SYSTEM-SLW
0530   / '='  SLIDING-WINDOW /
0540 *
0550 ELSE
0560  WRITE 'Return code' RETURN-CODE
0570 END-IF
0580 *
0590 END
```

Z-DIS05X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of cabinets sorted alphabetically by cabinet name.

This subprogram is the same as Z-DIS05 with the one exception that the parameter Cabinet-ISN uses the format P10.

You can either display a list of all cabinet types or of just a specific cabinet type (private, standalone, shared or public). You must specify the cabinet type in the parameter Start-cabinet-type.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		Any user can invoke this subprogram.
Password	A8	R		The password of the above cabinet.
Start-cabinet	A8	O		Start value. The name of a cabinet. If Start-cabinet is not specified, a list of all cabinets of the specified cabinet type is returned.
Start-cabinet-type	N1	R		0=private cabinet, 1=standalone cabinet, 2=shared cabinet, 3=public cabinet, 9=all cabinet types.
Number	N2	O		The maximum number of cabinets that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Cabinet-table (20)				
Cabinet-name	A8		X	The name of the cabinet.
Cabinet-type	A1		X	0=private cabinet, 1=standalone cabinet, 2=shared cabinet, 3=public cabinet.
User-last-name	A32		X	For cabinet type 0: the user’s last name. For cabinet types 1, 2 and 3: the description of the cabinet.
User-first-name	A32		X	Is only used with cabinet type 0: the user’s first name.
User-initial	A1		X	Is only used with cabinet type 0: the user’s middle initial.
Disallow-mail	A1		X	Is only used with cabinet types 1, 2 and 3. If marked, the cabinet is not able to receive or send mail.
Owner	A1		X	If marked, an administrator has been specified as the owner of the cabinet.
Administrator	A1		X	Only applies to an administrator cabinet: X=system administrator, A=cabinet administrator, S=supervisor.
Cabinet-ISN	P10		X	The ISN of the cabinet.
Work-parameter	A42			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list
91	Cabinet type not specified or specified incorrectly

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to display a list of cabinets with backup information.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE            (N2)
0070 1 CABINET                (A8)
0080 1 PASSWORD               (A8)
0090 1 START-CABINET          (A8)
0100 1 START-CABINET-TYPE     (N1)
0110 1 NUMBER                 (N2)
0120 1 CABINET-TABLE (20)
0130   2 CABINET-NAME         (A8)
0140   2 CABINET-TYPE         (A1)
0150   2 USER-LAST-NAME       (A32)
0160   2 USER-FIRST-NAME      (A32)
0170   2 USER-INITIAL         (A1)
0180   2 DISALLOW-MAIL        (A1)
0190   2 OWNER                (A1)
0200   2 ADMINISTRATOR        (A1)
0210   2 CABINET-ISN          (P10)
0220 1 WORK-PARAMETER         (A42)
0230 1 #INDEX                 (N2)
0240 *
0250 END-DEFINE
0260 *
0270 RESET RETURN-CODE
0280 MOVE 'CABINET'  TO CABINET
0290 MOVE 'PASSWORD' TO PASSWORD
0300 MOVE 'AAA-777 ' TO START-CABINET
0310 MOVE 9          TO START-CABINET-TYPE
0320 MOVE 20         TO NUMBER
0330 *
0340 REPEAT UNTIL RETURN-CODE NE 0
0350 *
0360   CALLNAT 'Z-DIS05X'
```

```
0370     RETURN-CODE
0380     CABINET
0390     PASSWORD
0400     START-CABINET
0410     START-CABINET-TYPE
0420     NUMBER
0430     CABINET-TABLE(*)
0440     WORK-PARAMETER
0450 *
0460   FOR #INDEX 1 TO NUMBER
0470     IF CABINET-ISN(#INDEX) NE 0
0480       WRITE  NOTITLE (SG=OFF ZP=OFF AD=L)
0490         '=' #INDEX
0500         / 'Cabinet name   ' CABINET-NAME(#INDEX)
0510         / 'Cabinet type   ' CABINET-TYPE(#INDEX)
0520         / 'User last name ' USER-LAST-NAME(#INDEX)
0530         / 'User first name' USER-FIRST-NAME(#INDEX)
0540         / 'User initial   ' USER-INITIAL(#INDEX)
0550         / 'Disallow mail  ' DISALLOW-MAIL(#INDEX)
0560         / 'Owner          ' OWNER(#INDEX)
0570         / 'Administrator  ' ADMINISTRATOR(#INDEX)
0580         / 'Cabinet ISN    ' CABINET-ISN(#INDEX)  /
0590       NEWPAGE
0600     END-IF
0610   END-FOR
0620 END-REPEAT
0630 *
0640 WRITE  'Return code ' RETURN-CODE
0650 *
0660 END
```

Z-DIS11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Display a list of documents.

You can display either all documents of a cabinet in alphabetical order, or all documents of a folder/file in date order.

To display all documents of a cabinet, you must not specify a folder or file.

Folders and files can be specified either by their numbers or by their names. You must not specify both.

Note:
You can invoke Z-DIS13 prior to this subprogram to return the number of a user-defined folder.

Documents from the Wastebasket, Inbasket or Outbasket are displayed only, if the parameter Folder-name or Folder-number is specified.

A document name can be specified as the Start-value for alphabetical order or user-defined sequence. A document date can be specified as the Start-value for ascending or descending date order.

A complete list of documents is returned if this subprogram is invoked iteratively. In this case, the parameters cannot be modified once this subprogram has been invoked. If this subprogram is invoked iteratively, the Work-parameter contains the needed restart values.

The parameter Name-sent-to/by is only returned for reference documents that are stored in the Inbasket and Outbasket.

Note:
If the Inbasket or Folder-number 1 is specified without entering a File-number or File-name, this subprogram returns the documents of all Inbasket files.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the list of documents.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	O*		The name of the folder from which you want to display the list of documents. Either Folder-name or Folder-number, not both.
File-name	A15	O*		The name of the file from which you want to display the list of documents. Either File-name or File-number, not both.
Folder-number	N5	O*		The number of the folder from which you want to display the list of documents. Either Folder-number or Folder-name, not both. See **Folder Numbers**.
File-number	N5	O*		The number of the file from which you want to display the list of documents. Either File-number or File-name, not both. See **File Numbers**.
Folder-sequence	N1	O		1 (ascending by date), 2 (descending by date), or 3 (user-defined). Default: 1.
Start-value	A32	O		Document name for alphabetical order or user-defined sequence. Document date (yyyymmdd) for ascending or descending date order in a folder/file.
Number	N2	O		The maximum number of documents that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Document-table (20)				
ISN	P8		X	The ISN of the document.
Document-name	A32		X	The name of the document.
Description	A60		X	The first line of the description.
Document-format	A1		X	See **Document Formats**.
Stored-in-file	A15		X	The name of the file in which the document is stored.
Date-filed	N8		X	The date when the document was filed in this cabinet. When the document is filed in the Inbasket or Outbasket, this is the date when the item was sent.
Name-sent-to/by	A20		X	When the document is filed in the Inbasket, this is the name of the sender. When the document is filed in the Outbasket, this is the name of the first addressee.
Mailcount	N7		X	When the document is filed in the Outbasket, this is the number of addressees to whom the item was sent.
Work-parameter	A49			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
11	Supply folder/file name or number, not both
55	Requested folder/file does not exist
73	Invalid folder/file name
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-175
Z-1200&0

Z-DIS11A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of documents.

This subprogram is similar to Z-DIS11X with the one exception that it also returns the parameter Replied.

You can display either all documents of a cabinet in alphabetical order (ascending or descending), or all documents of a folder/file in date order (ascending, descending or user-defined sequence).

Note:
To display all documents of a cabinet in descending alphabetical order, Adabas Version 6.2 or above is required.

To display all documents of a cabinet, you must not specify a folder or file.

Folders and files can be specified either by their numbers or by their names. You must not specify both.

Note:
You can invoke Z-DIS13 prior to this subprogram to return the number of a user-defined folder.

Documents from the Wastebasket, Inbasket or Outbasket are displayed only, if the parameter Folder-name or Folder-number is specified.

A document name can be specified as the Start-value for alphabetical order or user-defined sequence. A document date can be specified as the Start-value for ascending or descending date order.

A complete list of documents is returned if this subprogram is invoked iteratively. In this case, the parameters cannot be modified once this subprogram has been invoked. If this subprogram is invoked iteratively, the Work-parameter contains the needed restart values.

The parameter Name-sent-to/by is only returned for reference documents that are stored in the Inbasket and Outbasket.

Note:
If the Inbasket or Folder-number 1 is specified without entering a File-number or File-name, this subprogram returns the documents of all Inbasket files.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the list of documents.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	O*		The name of the folder from which you want to display the list of documents. Either Folder-name or Folder-number, not both.
File-name	A15	O*		The name of the file from which you want to display the list of documents. Either File-name or File-number, not both.
Folder-number	N5	O*		The number of the folder from which you want to display the list of documents. Either Folder-number or Folder-name, not both. See **Folder Numbers**.
File-number	N5	O*		The number of the file from which you want to display the list of documents. Either File-number or File-name, not both. See **File Numbers**.
Sequence	N1	O		If one of the folder/file parameters has been specified: 1 (ascending by date), 2 (descending by date), or 3 (user-defined). If none of the folder/file parameters has been specified: 1 (ascending by name), or 2 (descending by name). Default: 1.
Start-value	A32	O		Document name for alphabetical order or user-defined sequence. Document date (yyyymmdd) for ascending or descending date order in a folder/file.
Number	N2	O		The maximum number of documents that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Document-table (20)				
ISN	P10		X	The ISN of the document.
Document-name	A32		X	The name of the document.
Description	A60		X	The first line of the description.
Document-format	A1		X	See **Document Formats**.
Stored-in-file	A15		X	The name of the file in which the document is stored.
Date-filed	N8		X	The date when the document was filed in this cabinet. When the document is filed in the Inbasket or Outbasket, this is the date when the item was sent.
Name-sent-to/by	A20		X	When the document is filed in the Inbasket, this is the name of the sender. When the document is filed in the Outbasket, this is the name of the first addressee.

Parameter	Format	In	Out	Remarks
Mailcount	N7		X	When the document is filed in the Outbasket, this is the number of addressees to whom the item was sent.
Replied	A1		X	An asterisk (*) indicates that a reply to a received item has been sent (Inbasket) or a reply to a sent item has been received (Outbasket). A question mark (?) indicates that a reply has been created but not yet been sent (Inbasket).
Work-parameter	A49			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
11	Supply folder/file name or number, not both
55	Requested folder/file does not exist
73	Invalid folder/file name
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-175
Z-749
Z-1200&0

Example

```
* Display a list of documents.
*
DEFINE DATA
LOCAL
1 RETURN-CODE           (N2)
1 CABINET               (A8)
1 PASSWORD              (A8)
1 FOLDER-NAME           (A15)
1 FILE-NAME             (A15)
1 FOLDER-NUMBER         (N5)
1 FILE-NUMBER           (N5)
1 SEQUENCE              (N1)
1 START-VALUE           (A32)
1 REDEFINE START-VALUE
```

```
  2 START-DATE          (A8)
1 NUMBER                (N2)
1 DOCUMENT-TABLE (20)
  2 ISN                 (P10)
  2 DOCUMENT-NAME       (A32)
  2 DESCRIPTION         (A60)
  2 DOCUMENT-FORMAT     (A1)
  2 STORED-IN-FILE      (A15)
  2 DATE-FILED          (N8)
  2 NAME-SENT-TO-BY     (A20)
  2 MAILCOUNT           (N7)
  2 REPLIED             (A1)
1 WORK-PARAMETER        (A49)
1 #INDEX                (N2)
*
END-DEFINE
*
RESET RETURN-CODE
MOVE 'CABINET'  TO CABINET
MOVE 'PASSWORD' TO PASSWORD
MOVE 'Work'     TO FOLDER-NAME
MOVE 2          TO SEQUENCE
MOVE '20020202' TO START-DATE
MOVE 20         TO NUMBER
*
REPEAT UNTIL RETURN-CODE NE 0
*
  CALLNAT 'Z-DIS11A'
    RETURN-CODE
    CABINET
    PASSWORD
    FOLDER-NAME
    FILE-NAME
    FOLDER-NUMBER
    FILE-NUMBER
    SEQUENCE
    START-VALUE
    NUMBER
    DOCUMENT-TABLE(*)
    WORK-PARAMETER
*
  FOR #INDEX 1 TO NUMBER
    IF ISN(#INDEX) NE 0
      WRITE  NOTITLE (SG=OFF ZP=OFF AD=L)
        '=' #INDEX
        / 'Document name       ' DOCUMENT-NAME(#INDEX)
        / 'Description         ' DESCRIPTION(#INDEX) (AL=40)
        / 'Document format     ' DOCUMENT-FORMAT(#INDEX)
        / 'Stored in file      ' STORED-IN-FILE(#INDEX)
        / 'Date filed          ' DATE-FILED(#INDEX)
        / 'Name of the sender  ' NAME-SENT-TO-BY(#INDEX)
        / 'Number of addressees' MAILCOUNT(#INDEX)
        / 'Replied             ' REPLIED(#INDEX)
      NEWPAGE
    END-IF
  END-FOR
END-REPEAT
*
WRITE  'Return code ' RETURN-CODE
*
END
```

Z-DIS11X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of documents.

This subprogram is the same as Z-DIS11 with the exception that the parameter ISN uses the format P10 and that descending order can be specified for displaying all documents of a cabinet.

You can display either all documents of a cabinet in alphabetical order (ascending or descending), or all documents of a folder/file in date order (ascending, descending or user-defined sequence).

Note:
To display all documents of a cabinet in descending alphabetical order, Adabas Version 6.2 or above is required.

To display all documents of a cabinet, you must not specify a folder or file.

Folders and files can be specified either by their numbers or by their names. You must not specify both.

Note:
You can invoke Z-DIS13 prior to this subprogram to return the number of a user-defined folder.

Documents from the Wastebasket, Inbasket or Outbasket are displayed only, if the parameter Folder-name or Folder-number is specified.

A document name can be specified as the Start-value for alphabetical order or user-defined sequence. A document date can be specified as the Start-value for ascending or descending date order.

A complete list of documents is returned if this subprogram is invoked iteratively. In this case, the parameters cannot be modified once this subprogram has been invoked. If this subprogram is invoked iteratively, the Work-parameter contains the needed restart values.

The parameter Name-sent-to/by is only returned for reference documents that are stored in the Inbasket and Outbasket.

Note:
If the Inbasket or Folder-number 1 is specified without entering a File-number or File-name, this subprogram returns the documents of all Inbasket files.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the list of documents.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	O*		The name of the folder from which you want to display the list of documents. Either Folder-name or Folder-number, not both.
File-name	A15	O*		The name of the file from which you want to display the list of documents. Either File-name or File-number, not both.
Folder-number	N5	O*		The number of the folder from which you want to display the list of documents. Either Folder-number or Folder-name, not both. See **Folder Numbers**.
File-number	N5	O*		The number of the file from which you want to display the list of documents. Either File-number or File-name, not both. See **File Numbers**.
Sequence	N1	O		If one of the folder/file parameters has been specified: 1 (ascending by date), 2 (descending by date), or 3 (user-defined). If none of the folder/file parameters has been specified: 1 (ascending by name), or 2 (descending by name). Default: 1.
Start-value	A32	O		Document name for alphabetical order or user-defined sequence. Document date (yyyymmdd) for ascending or descending date order in a folder/file.
Number	N2	O		The maximum number of documents that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Document-table (20)				
ISN	P10		X	The ISN of the document.
Document-name	A32		X	The name of the document.
Description	A60		X	The first line of the description.
Document-format	A1		X	See **Document Formats**.
Stored-in-file	A15		X	The name of the file in which the document is stored.
Date-filed	N8		X	The date when the document was filed in this cabinet. When the document is filed in the Inbasket or Outbasket, this is the date when the item was sent.
Name-sent-to/by	A20		X	When the document is filed in the Inbasket, this is the name of the sender. When the document is filed in the Outbasket, this is the name of the first addressee.

Parameter	Format	In	Out	Remarks
Mailcount	N7		X	When the document is filed in the Outbasket, this is the number of addressees to whom the item was sent.
Work-parameter	A49			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
11	Supply folder/file name or number, not both
55	Requested folder/file does not exist
73	Invalid folder/file name
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-175
Z-1200&0

Example

```
0010 *
0020 * Example program to display a list of documents.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE           (N2)
0070 1 CABINET               (A8)
0080 1 PASSWORD              (A8)
0090 1 FOLDER-NAME           (A15)
0100 1 FILE-NAME             (A15)
0110 1 FOLDER-NUMBER         (N5)
0120 1 FILE-NUMBER           (N5)
0130 1 SEQUENCE              (N1)
0140 1 START-VALUE           (A32)
0150 1 REDEFINE START-VALUE
0160   2 START-DATE          (A8)
0170 1 NUMBER                (N2)
0180 1 DOCUMENT-TABLE (20)
0190   2 ISN                 (P10)
0200   2 DOCUMENT-NAME       (A32)
0210   2 DESCRIPTION         (A60)
```

```
0220   2 DOCUMENT-FORMAT     (A1)
0230   2 STORED-IN-FILE      (A15)
0240   2 DATE-FILED          (N8)
0250   2 NAME-SENT-TO-BY     (A20)
0260   2 MAILCOUNT           (N7)
0270 1 WORK-PARAMETER        (A49)
0280 1 #INDEX                (N2)
0290 *
0300 END-DEFINE
0310 *
0320 RESET RETURN-CODE
0330 MOVE 'CABINET'  TO CABINET
0340 MOVE 'PASSWORD' TO PASSWORD
0350 MOVE 'Work'     TO FOLDER-NAME
0360 MOVE 2          TO SEQUENCE
0370 MOVE '20000805' TO START-DATE
0380 MOVE 20         TO NUMBER
0390 *
0400 REPEAT UNTIL RETURN-CODE NE 0
0410 *
0420   CALLNAT 'Z-DIS11X'
0430     RETURN-CODE
0440     CABINET
0450     PASSWORD
0460     FOLDER-NAME
0470     FILE-NAME
0480     FOLDER-NUMBER
0490     FILE-NUMBER
0500     SEQUENCE
0510     START-VALUE
0520     NUMBER
0530     DOCUMENT-TABLE(*)
0540     WORK-PARAMETER
0550 *
0560   FOR #INDEX 1 TO NUMBER
0570     IF ISN(#INDEX) NE 0
0580       WRITE  NOTITLE (SG=OFF ZP=OFF AD=L)
0590         '=' #INDEX
0600         / 'Document name       ' DOCUMENT-NAME(#INDEX)
0610         / 'Description         ' DESCRIPTION(#INDEX) (AL=40)
0620         / 'Document format     ' DOCUMENT-FORMAT(#INDEX)
0630         / 'Stored in file      ' STORED-IN-FILE(#INDEX)
0640         / 'Date filed          ' DATE-FILED(#INDEX)
0650         / 'Name of the sender  ' NAME-SENT-TO-BY(#INDEX)
0660         / 'Number of addressees' MAILCOUNT(#INDEX)
0670       NEWPAGE
0680     END-IF
0690   END-FOR
0700 END-REPEAT
0710 *
0720 WRITE  'Return code ' RETURN-CODE
0730 *
0740 END
```

Z-DIS13

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of folders.

This subprogram only lists folders of the first level, i.e. the name of a folder that is stored in another folder is not displayed.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list or until the number which was specified in the parameter Number is reached.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the list of folders.
Password	A8	R		The password of the above cabinet.
Start-name	A15	O		Start value. The name of a folder. When Start-name is not specified, a list of all folders is returned. When Start-name is specified, any input in the parameter Start-number is ignored.
Start-number	N2	O		Start value. The internal number of a folder. When Start-number is not specified, a list of all folders is returned. If Start-number is, for example, 3 (Wastebasket), this subprogram returns the folders alphabetically, starting with the Wastebasket.
Number	N2	O		The maximum number of folders that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Folder-table (20)				
Folder-name	A15		X	The name of the folder.
Folder-number	N5		X	The internal number of the folder.
Description	A44		X	The first line of the description.
Number-of-files	N5		X	The number of files which are contained in the folder.
Folders	A1		X	If marked, the folder contains other folders.
Items	A1		X	If marked, the folder contains objects (files excluded).
TRS	A1		X	If marked, the folder is a TRS folder.
Folder-sequence	N1		X	1 (ascending by date), 2 (descending by date), or 3 (user-defined).
Work-parameter	A26			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-157
Z-175
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE     (N2)
0030 1 CABINET         (A8)
0040 1 PASSWORD        (A8)
0050 1 START-NAME      (A15)
0060 1 START-NUMBER    (N2)
0070 1 NUMBER          (N2)
0080 1 FOLDER-TABLE    (20)
0090 2 FOLDER-NAME     (A15)
0100 2 FOLDER-NUMBER   (N5)
0110 2 DESCRIPTION     (A44)
0120 2 FILES           (N5)
0130 2 FOLDERS         (A1)
0140 2 ITEMS           (A1)
0150 2 TRS             (A1)
0160 2 FOLDER-SEQUENCE (N1)
0170 1 WORK-PARAMETER  (A26)
0180 END-DEFINE
0190 *
0200 INPUT CABINET / PASSWORD
0210 *
0220 REPEAT UNTIL RETURN-CODE EQ 77
0230 CALLNAT 'Z-DIS13' RETURN-CODE CABINET PASSWORD START-NAME START-NUMBER
0240                   NUMBER FOLDER-TABLE(*) WORK-PARAMETER
0250 IF  NOT RETURN-CODE = 0 OR = 77
0260     WRITE 'Return code' RETURN-CODE
0270     STOP
0280 END-IF
0290 *
0300 DISPLAY FOLDER-NAME(*) DESCRIPTION(*)
0310 *
0320 END-REPEAT
0330 END
```

Z-DIS13A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display the contents of a specific folder or file.

You can specify a folder or file by either its name or its number. You must not specify both. You can invoke Z-DIS13 prior to this subprogram to return the number of the desired folder.

When you specify a folder and do not specify a file, only the contents of the specified folder is shown. When you specify a folder and a file, only the contents of the specified file is shown.

Exception: for the Inbasket, the contents of all files is shown, if you do not specify a file.

The following applies to invitations in the Inbasket: if the originator has modified a meeting and sent the invitations, only the most recent modified invitations are displayed in the attendee's Inbaskets.

The following applies to mail items in the Inbasket: when the specified expiration date and time has been reached, the mail item is automatically deleted from the Inbasket of each addressee who has not yet read the mail item.

You can specify an object name as the Start-value for user-defined sequence; or an object date as the Start-value for ascending or descending date order.

Note:
When you specify a start date and the date order is descending, folders and files are not returned. Entering a file name as a Start-value for user-defined sequence does not function.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list. In this case, the parameters cannot be modified once this subprogram has been invoked. If this subprogram is invoked iteratively, the Work-parameter contains the needed restart values.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the folder/file contents.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	R*		The name of the folder for which you want to display the contents. Either Folder-name or Folder-number, not both.
File-name	A15	O*		The name of the file for which you want to display the contents. Either File-name or File-number, not both.
Folder-number	N5	R*		The internal number of the folder for which you want to display the contents. Either Folder-number or Folder-name, not both. See **Folder Numbers**.
File-number	N5	O*		The internal number of the file for which you want to display the contents. Either File-number or File-name, not both. See **File Numbers**.
Object-number	N2	O		If you specify an object number, only the objects corresponding to that number are returned. If you specify 0, all objects in the folder/file are returned. See **Object Numbers**.
Folder-sequence	N1	O		The sequence in which the folder or file contents is to be returned. 1=ascending by date, 2=descending by date, or 3=user-defined. Default: 1.
Start-value	A32	O		Object name for user-defined sequence. Object date (yyyymmdd) for ascending or descending date order.
Number	N2	O		The maximum number of objects that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Object-table (20)				
ISN	P8		X	The ISN of the object.
Object-name	A32		X	The name of the object.
Description	A60		X	The first line of the description.
Object-no	N2		X	See **Object Numbers**.
Document-format	A1		X	Applies if the object is a document. See **Document Formats**.
Stored-in-file	A15		X	The name of the file in which the object is stored. If the object is a file, this parameter is blank.
Items	A1		X	If marked, the folder or file contains objects. However, if a folder only contains empty files, this parameter is not marked.
Object-date	N8		X	The date, the object was created or mailed.

Parameter	Format	In	Out	Remarks
Name-sent-to/by	A20		X	When the item is filed in the Inbasket, this is the name of the sender. When the item is filed in the Outbasket, this is the name of the first addressee.
Mailcount	N7		X	When the item is filed in the Outbasket, this is the number of addressees to whom the item was sent. 0 may also mean that the recipient list was only validated (the item has not been sent).
Work-parameter	A49			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
11	Supply folder/file name or number, not both
55	Requested folder/file does not exist
73	Invalid folder/file name
77	End of list

Subprograms

Z-0420
Z-0420A
Z-100
Z-110
Z-120
Z-122
Z-123
Z-147
Z-150
Z-157
Z-165
Z-175
Z-180
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-711
Z-728

Z-729
Z-734
Z-735
Z-736
Z-737
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE         (N2)
0030 1 CABINET             (A8)
0040 1 PASSWORD            (A8)
0050 1 FOLDER-NAME         (A15)
0060 1 FILE-NAME           (A15)
0070 1 FOLDER-NUMBER       (N5)
0080 1 FILE-NUMBER         (N5)
0090 1 OBJECT-NUMBER       (N2)
0100 1 FOLDER-SEQUENCE     (N1)
0110 1 START-VALUE         (A32)
0120 1 REDEFINE START-VALUE
0130   2 START-DATE        (A8)
0140 1 NUMBER              (N2)
0150 1 OBJECT-TABLE        (20)
0160   2 ISN               (P8)
0170   2 OBJECT-NAME       (A32)
0180   2 DESCRIPTION       (A60)
0190   2 OBJECT-NO         (N2)
0200   2 DOCUMENT-FORMAT   (A1)
0210   2 STORED-IN-FILE    (A15)
0220   2 ITEMS             (A1)
0230   2 OBJECT-DATE       (N8)
0240   2 NAME-SENT-TO/BY   (A20)
0250   2 MAILCOUNT         (N7)
0260 1 WORK-PARAMETER      (A49)
0270 *
0280 END-DEFINE
0290 *
0300 MOVE 'AH'        TO CABINET
0310 MOVE 'AH'        TO PASSWORD
0320 MOVE 'WORK'      TO FOLDER-NAME
0330 MOVE  11         TO OBJECT-NUMBER  /* Display documents only
0340 MOVE  1          TO FOLDER-SEQUENCE
0350 MOVE  '19930101' TO START-DATE
0360 *
0370 REPEAT UNTIL RETURN-CODE EQ 77
0380 *
0390   CALLNAT 'Z-DIS13A' RETURN-CODE CABINET PASSWORD FOLDER-NAME
0400     FILE-NAME FOLDER-NUMBER FILE-NUMBER OBJECT-NUMBER FOLDER-SEQUENCE
0410     START-VALUE NUMBER OBJECT-TABLE (*) WORK-PARAMETER
0420 *
0430     IF  NOT RETURN-CODE = 0 OR = 77
0440         WRITE 'Return code' RETURN-CODE
0450         STOP
0460     END-IF
0470 *
0480     DISPLAY OBJECT-NAME(*) OBJECT-DATE(*) DOCUMENT-FORMAT(*)
```

```
0490 *
0500 END-REPEAT
0510 *
0520 END
```

Z-DIS13B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display the contents of a specific folder or file.

You can specify a folder or file by either its name or its number. You must not specify both. You can invoke Z-DIS13 prior to this subprogram to return the number of the desired folder.

When you specify a folder and do not specify a file, only the contents of the specified folder is shown. When you specify a folder and a file, only the contents of the specified file is shown.

Exception: for the Inbasket, the contents of all files is shown, if you do not specify a file.

The following applies to invitations in the Inbasket: if the originator has modified a meeting and sent the invitations, only the most recent modified invitations are displayed in the attendee's Inbaskets.

The following applies to mail items in the Inbasket: when the specified expiration date and time has been reached, the mail item is automatically deleted from the Inbasket of each addressee who has not yet read the mail item.

You can specify an object name as the Start-value for user-defined sequence; or the date and time when the object was filed as the Start-value for ascending or descending date order. When a Start-value is specified, you can also specify an End-value.

Note:
When you specify a start date and the date order is descending, folders and files are not returned. Entering a file name as a Start-value for user-defined sequence does not function.

The timezone is always GMT. Other timezones are not considered.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list. In this case, the parameters cannot be modified once this subprogram has been invoked. If this subprogram is invoked iteratively, the Work-parameter contains the needed restart values.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the folder/file contents.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	R*		The name of the folder for which you want to display the contents. Either Folder-name or Folder-number, not both.
File-name	A15	O*		The name of the file for which you want to display the contents. Either File-name or File-number, not both.
Folder-number	N5	R*		The internal number of the folder for which you want to display the contents. Either Folder-number or Folder-name, not both. See **Folder Numbers**.
File-number	N5	O*		The internal number of the file for which you want to display the contents. Either File-number or File-name, not both. See **File Numbers**.
Object-number	N2	O		If you specify an object number, only the objects corresponding to that number are returned. If you specify 0, all objects in the folder/file are returned. See **Object Numbers**.
Folder-sequence	N1	O		The sequence in which the folder or file contents is to be returned. 1=ascending by date, 2=descending by date, or 3=user-defined. Default: 1.
Start-value	A32	O		Object name for user-defined sequence. Date and time on which the object was filed (yyyymmddhhmm) for ascending or descending date order.
End-value	A32	O		Object name for user-defined sequence. Date and time on which the object was filed (yyyymmddhhmm) for ascending or descending date order. When Folder-sequence is 1, End-value must be bigger than or equal to Start-value. When Folder-sequence is 2, End-value must be less than or equal to Start-value.
Number	N2	O		The maximum number of objects that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Object-table (20)				
ISN	P10		X	The ISN of the object.
Object-name	A32		X	The name of the object.
Description	A60		X	The first line of the description.
Object-no	N2		X	See **Object Numbers**.
Document-format	A1		X	Applies if the object is a document. See **Document Formats**.

Parameter	Format	In	Out	Remarks
Stored-in-file	A15		X	The name of the file in which the object is stored. If the object is a file, this parameter is blank.
Items	A1		X	If marked, the folder or file contains objects. However, if a folder only contains empty files, this parameter is not marked.
Name-sent-to/by	A20		X	When the item is stored in the Inbasket or has been filed from the Inbasket, this is the name of the sender. When the item is stored in the Outbasket or has been filed from the Outbasket, this is the name of the first addressee.
Mailcount	N7		X	When the item is filed in the Outbasket, this is the number of addressees to whom the item was sent. 0 may also mean that the recipient list was only validated (the item has not been sent).
Mailtype	A1		X	For items that are stored in the Inbasket or have been filed from the Inbasket: 1=received mail item, 2=forwarded mail item, 3=reply. For items that are stored in the Outbasket or have been filed from the Outbasket: 4=sent mail item, 5=forwarded mail item, 6=reply. This field is blank for items that have not been mailed.
Enclosures-number	N3		X	The number of enclosures.
Private-flag	A1		X	If marked, the item is a private object.
Author-ID	A8		X	The name of the cabinet in which the item was created.
Modified-ID	A8		X	The name of the cabinet in which the item was last modified.
Creation-date	A8		X	The date on which the item was created (yyyymmdd).
Creation-time	A4		X	The time the item was created (hhmm).
Modified-date	A8		X	The date on which the item was last modified (yyyymmdd).
Modified-time	A4		X	The time the item was last modified (hhmm).
Mailed-date	A8		X	The date on which the item was last mailed (yyyymmdd). Example: when the item was sent and then forwarded, the forwarding date is shown.
Mailed-time	A4		X	The time the item was last mailed (hhmm).
Filed-date	A8		X	The date on which the item was filed (yyyymmdd).
Filed-time	A4		X	The time the item was filed (hhmm).
Work-parameter	A81			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
11	Supply folder/file name or number, not both
55	Requested folder/file does not exist
73	Invalid folder/file name
77	End of list
90	Incorrect Start-value and/or End-value

Subprograms

Z-0420
Z-0420A
Z-100
Z-110
Z-120
Z-122
Z-123
Z-147
Z-150
Z-157
Z-165
Z-175
Z-180
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-711
Z-728
Z-729
Z-734
Z-735
Z-736
Z-737
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE         (N2)
0030 1 CABINET             (A8)
0040 1 PASSWORD            (A8)
0050 1 FOLDER-NAME         (A15)
0060 1 FILE-NAME           (A15)
0070 1 FOLDER-NUMBER       (N5)
0080 1 FILE-NUMBER         (N5)
0090 1 OBJECT-NUMBER       (N2)
0100 1 FOLDER-SEQUENCE     (N1)
0110 1 START-VALUE         (A32)
0120 1 REDEFINE START-VALUE
0130   2 START-DATE        (A8)
0140   2 START-TIME        (A4)
0150 1 END-VALUE           (A32)
0160 1 REDEFINE END-VALUE
0170   2 END-DATE          (A8)
0180   2 END-TIME          (A4)
0190 1 NUMBER              (N2)
0200 1 OBJECT-TABLE        (20)
0210   2 ISN               (P10)
0220   2 OBJECT-NAME       (A32)
0230   2 DESCRIPTION       (A60)
0240   2 OBJECT-NO         (N2)
0250   2 DOCUMENT-FORMAT   (A1)
0260   2 STORED-IN-FILE    (A15)
0270   2 ITEMS             (A1)
0280   2 NAME-SENT-TO/BY   (A20)
0290   2 MAILCOUNT         (N7)
0300   2 MAILTYPE          (A1)
0310   2 ENCLOSURES-NUMBER (N3)
0320   2 PRIVATE-FLAG      (A1)
0330   2 AUTHOR-ID         (A8)
0340   2 MODIFIED-ID       (A8)
0350   2 CREATION-DATE     (A8)
0360   2 CREATION-TIME     (A4)
0370   2 MODIFIED-DATE     (A8)
0380   2 MODIFIED-TIME     (A4)
0390   2 MAILED-DATE       (A8)
0400   2 MAILED-TIME       (A4)
0410   2 FILED-DATE        (A8)
0420   2 FILED-TIME        (A4)
0430 1 WORK-PARAMETER      (A81)
0440 1 MAIL-TYPE-TEXT      (A2/1:20)
0450 1 INX                 (N2)
0460 END-DEFINE
0470 *
0480 MOVE 'AH'            TO CABINET
0490 MOVE 'AH'            TO PASSWORD
0500 MOVE 'WORK'          TO FOLDER-NAME
0510 MOVE  11             TO OBJECT-NUMBER  /* Display documents only
0520 MOVE  1              TO FOLDER-SEQUENCE
0530 MOVE  '19980101'     TO START-DATE
0540 MOVE  '0000'         TO START-TIME
0550 MOVE  '19990101'     TO END-DATE
0560 MOVE  '0000'         TO END-TIME
0570 *
0580 REPEAT UNTIL RETURN-CODE EQ 77
0590 *
0600   CALLNAT 'Z-DIS13B' RETURN-CODE CABINET PASSWORD FOLDER-NAME
```

```
0610     FILE-NAME FOLDER-NUMBER FILE-NUMBER OBJECT-NUMBER FOLDER-SEQUENCE
0620     START-VALUE END-VALUE NUMBER OBJECT-TABLE (*) WORK-PARAMETER
0630 *
0640   IF  NOT RETURN-CODE = 0 OR = 77
0650     WRITE 'Return code' RETURN-CODE
0660     STOP
0670   END-IF
0680 *
0690   FOR INX 1 20
0700     DECIDE ON FIRST VALUE OF MAILTYPE(INX)
0710       VALUE '1'  MOVE 'I<' TO MAIL-TYPE-TEXT(INX)
0720       VALUE '2'  MOVE 'F<' TO MAIL-TYPE-TEXT(INX)
0730       VALUE '3'  MOVE 'R<' TO MAIL-TYPE-TEXT(INX)
0740       VALUE '4'  MOVE 'O>' TO MAIL-TYPE-TEXT(INX)
0750       VALUE '5'  MOVE 'F>' TO MAIL-TYPE-TEXT(INX)
0760       VALUE '6'  MOVE 'R>' TO MAIL-TYPE-TEXT(INX)
0770       NONE VALUE MOVE ' '  TO MAIL-TYPE-TEXT(INX)
0780     END-DECIDE
0790   END-FOR
0800 *
0810  DISPLAY OBJECT-NAME(*) FILED-DATE(*) FILED-TIME(*) MAIL-TYPE-TEXT(*)
0820 *
0830 END-REPEAT
0840 *
0850 END
```

Z-DIS17A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of all members of a distribution list, a shared cabinet or a private cabinet which the user has shared.

When you specify neither the parameter Start-name nor Start-ID, the members are returned alphabetically in ID sequence.

When you specify a start value in the parameter Start-name, only users are returned. In this case, the list is sorted alphabetically by last name.

When you specify a start value in the parameter Start-ID, all member types are returned. In this case, the list is sorted alphabetically by ID.

This subprogram checks first whether the distribution list exists in the specified cabinet. (In the case of a private cabinet, this subprogram then checks whether members exist for the cabinet). If a distribution list is not found, this subprogram then checks whether a distribution list of that name exists in cabinet SYSCNT.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the list.
Password	A8	R		The password of the above cabinet.
Distribution-name	A32	R		The name of a distribution list or the ID of a cabinet for which you want to display the members.
Start-name	A20	O*		Start value. See the description above. Either Start-name or Start-ID, not both.
Start-ID	A16	O*		Start value. See the description above. Either Start-ID or Start-name, not both.
List-type	A1		X	1=distribution list, 2=cabinet.
Member-array (20)				
Name	A20		X	The name of the member.
Mail-ID	A16		X	The ID of the member.
Member-type	A1		X	1=distribution, 2=cabinet, 3=user, 4=bulletin, 5=external.
Mail-type	A1		X	The type of mail which the member of the distribution list receives: O=original, C=copy, B=blindcopy.
Work-parameter	A32			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
30	Distribution list name invalid
31	No members found
77	End of list
90	Specify either Start-ID or Start-name - you must not specify both

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-165
Z-1200&0

Example

```
0010 *
0020 * Return a list of all members of a distribution list, shared cabinet
0030 * or private cabinet
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE       (N2)
0080 1 CABINET           (A8)
0090 1 PASSWORD          (A8)
0100 1 DISTRIBUTION-NAME (A32)
0110 1 START-NAME        (A20)  /* list only users - not other objects!
0120 1 START-ID          (A16)  /* list all objects by ID!
0130 1 LIST-TYPE         (A1)
0140 1 MEMBER-ARRAY      (20)
0150   2 NAME            (A20)
0160   2 MAIL-ID         (A16)
0170   2 MEMBER-TYPE     (A1)  /* user,distribution,cabinet,bulletin,external
0180   2 MAIL-TYPE       (A1)  /* 'O': original 'C': copy, 'B': blindcopy
0190 1 WORK-PARAMETER    (A32)
0200 *
0210 END-DEFINE
0220 ************************************
0230 *
0240 MOVE 'CABINET'    TO CABINET
0250 MOVE 'PASSWORD'   TO PASSWORD
0260 MOVE 'NAME'       TO DISTRIBUTION-NAME /* distribution list/shared cabinet
0270 MOVE 'USER-ID'    TO START-ID          /* to sort by ID
0280 *
0290 CALLNAT 'Z-DIS17A'
0300     RETURN-CODE
0310     CABINET
0320     PASSWORD
0330     DISTRIBUTION-NAME
0340     START-NAME
0350     START-ID
0360     LIST-TYPE
0370     MEMBER-ARRAY  (*)
0380     WORK-PARAMETER
0390 *
0400 IF RETURN-CODE EQ 0
0410    WRITE NAME(*) MAIL-ID(*) MEMBER-TYPE(*) MAIL-TYPE(*)
0420 ELSE
0430    WRITE 'RETURN CODE ' RETURN-CODE
0440 END-IF
0450 END
```

Z-DIS17B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of all members of a distribution list, a shared cabinet or a private cabinet which the user has shared.

This subprogram is similar to Z-DIS17A with the exception that the parameter Member-type has changed and the member ISN is also returned.

When you specify neither the parameter Start-name nor Start-ID, the members are returned alphabetically in ID sequence.

When you specify a start value in the parameter Start-name, only users are returned. In this case, the list is sorted alphabetically by last name.

When you specify a start value in the parameter Start-ID, all member types are returned. In this case, the list is sorted alphabetically by ID.

This subprogram checks first whether the distribution list exists in the specified cabinet. In the case of a private cabinet, this subprogram then checks whether members exist for the cabinet. If a distribution list is not found, this subprogram then checks whether a distribution list of that name exists in cabinet SYSCNT.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the list.
Password	A8	R		The password of the above cabinet.
Distribution-name	A32	R		The name of a distribution list or the ID of a cabinet for which you want to display the members.
Start-name	A20	O*		Start value. The user's last name. See the description above. Either Start-name or Start-ID, not both.
Start-ID	A16	O*		Start value. See the description above. Either Start-ID or Start-name, not both.
List-type	A1		X	1=distribution list, 2=cabinet.
Member-array (20)				
Name	A20		X	The name of the member.
Mail-ID	A16		X	The ID of the member.
Member-type	N2		X	The type of member:1=address (nickname), 4=bulletin board, 5=cabinet, 10=distribution list, 33=user ID (private cabinet), 70=last name, 74=external address.
Mail-type	A1		X	The type of mail which the member of the distribution list receives: O=original, C=copy, B=blindcopy.
Member-ISN	P10		X	The ISN of the member.
Work-parameter	A40			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
24	Security violation
30	Distribution list name invalid
31	No members found
53	Requested object does not exist
77	End of list
90	Specify either Start-ID or Start-name - you must not specify both

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-165
Z-1200&0

Example

```
0010 *
0020 * Example program to return a list of all members of a distribution list,
0030 * shared cabinet or private cabinet
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE       (N2)
0080 1 CABINET           (A8)
0090 1 PASSWORD          (A8)
0100 1 DISTRIBUTION-NAME (A32)
0110 1 START-NAME        (A20)  /* list only users - not other objects !
0120 1 START-ID          (A16)  /* list all objects by ID !
0130 1 LIST-TYPE         (A1)
0140 1 MEMBER-ARRAY (20)
0150   2 NAME            (A20)
0160   2 MAIL-ID         (A16)
0170   2 MEMBER-TYPE     (N2)   /* user,distribution,cabinet,bulletin,external
0180   2 MAIL-TYPE       (A1)   /* O=original, C=copy, B=blindcopy
0190   2 MEMBER-ISN      (P10)
0200 1 WORK-PARAMETER    (A40)
0210 *
0220 END-DEFINE
0230 *
0240 *
0250 MOVE 'CABINET'    TO CABINET
0260 MOVE 'PASSWORD'   TO PASSWORD
0270 MOVE 'DLIST NAME' TO DISTRIBUTION-NAME /* distribution list/shared cab.
```

```
0280 MOVE 'USER ID'    TO START-ID          /* to SORT by ID
0290 *
0300 CALLNAT 'Z-DIS17B' RETURN-CODE
0310                    CABINET
0320                    PASSWORD
0330                    DISTRIBUTION-NAME
0340                    START-NAME
0350                    START-ID
0360                    LIST-TYPE
0370                    MEMBER-ARRAY(*)
0380                    WORK-PARAMETER
0390 *
0400 IF RETURN-CODE EQ 0
0410   WRITE NAME(*) MAIL-ID(*) MEMBER-TYPE(*) MAIL-TYPE(*) MEMBER-ISN(*)
0420 ELSE
0430   WRITE 'Return code' RETURN-CODE
0440 END-IF
0450 END
```

Z-DIS20

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of notepad pages.

You can either retrieve all notepad pages or only those with specific keywords.

You can specify one of the following in the parameter Note-keywords (you must not specify both at the same time):

- To retrieve the notepad pages with specific keywords: specify the keywords separated by blanks.
- To retrieve the notepad pages with keywords that start with the same letters: specify the letters followed by an asterisk (*).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	
Cabinet	A8	R		The name of the cabinet in which you want to display the list of notepad pages.
Password	A8	R		The password of the above cabinet.
Start-note-subject	A32	O*		Either Start-note-subject or Note-keywords, not both.
Note-keywords	A32	O*		A list of keywords where the keywords are separated by spaces. Or the first letters of a keyword followed by an asterisk (*). Either Note-keywords or Start-note-subject, not both.
Number	N2	O		The maximum number of notepad pages that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Note-table (20)				
Subject	A32		X	The subject of the note. There may be several notes with the same subject.
ISN	P10		X	The ISN of the note.
Date-created	N8		X	The date the note was created.
Time-created	N4		X	The time the note was created.
Work-parameter	A42			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list
90	Specify either Start-note-subject or Note-keywords, not both
91	Keyword cannot be interpreted - do not specify further keywords after the asterisk (*)

Subprograms

Z-120
Z-122
Z-123
Z-175
Z-1200&0

Example

```
0010 *
0020 *   Example program to display a list of notepad pages
0030 *
0040 DEFINE DATA
0050 *
0060 LOCAL
0070 1 RETURN-CODE       (N2)
0080 1 CABINET           (A8)
0090 1 PASSWORD          (A8)
0100 1 START-NOTE-SUBJECT(A32)
0110 1 NOTE-KEYWORDS     (A32)
0120 1 NUMBER            (N2)
0130 1 NOTE-TABLE        (20)
0140   2 SUBJECT         (A32)
0150   2 ISN             (P10)
0160   2 DATE-CREATED    (N8)
0170   2 TIME-CREATED    (N4)
0180 1 WORK-PARAMETER    (A42)
0190 1 INDEX             (N3)
0200 *
0210 *
0220 END-DEFINE
0230 *
0240 AT TOP OF PAGE
0250   WRITE
0260     '-----------Subject-------------  ----ISN---- ---Date-- -Time-'
0270 END-TOPPAGE
0280 *
0290 RESET RETURN-CODE
0300 MOVE 'CABINET '      TO CABINET
0310 MOVE 'PASSWORD'      TO PASSWORD
0320 MOVE 'Meeting 9/24 ' TO START-NOTE-SUBJECT
0330 MOVE  20             TO NUMBER
0340 *
0350 REPEAT UNTIL RETURN-CODE NE 0
0360   CALLNAT 'Z-DIS20'
0370     RETURN-CODE
0380     CABINET
0390     PASSWORD
0400     START-NOTE-SUBJECT
0410     NOTE-KEYWORDS
0420     NUMBER
0430     NOTE-TABLE (*)
0440     WORK-PARAMETER
0450   IF RETURN-CODE EQ 00 OR EQ 77
0460     NEWPAGE
0470     FOR INDEX 1 TO 20
0480       IF SUBJECT(INDEX)  NE ' '
0490           OR ISN(INDEX)  NE 0
```

```
0500         WRITE
0510           SUBJECT(INDEX)
0520           ISN (INDEX)
0530           DATE-CREATED(INDEX)
0540           TIME-CREATED(INDEX)
0550       END-IF
0560     END-FOR
0570   END-IF
0580 END-REPEAT
0590 *
0600 WRITE   'Return code ' RETURN-CODE
0610 END
```

Z-DIS23

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of printer profiles.

This subprogram lists all printer profiles that are stored in the defined cabinet (as specified with the parameter Cabinet) and in cabinet SYSCNT.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the printer profiles are stored.
Start-value	A32	O		The name of a printer profile. If Start-value is not specified, a list of all printer profiles is returned. When you specify a name (e.g. "sag"), the list starts with the specified name and continues until the end of the list is reached. When you specify a name with an asterisk (e.g. "sag*"), only the names that start with the specified characters are returned.
Number	N2	O		The maximum number of printer profiles that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Profile-table	A35/1:20		X	The name of the printer profile. Whenever a printer profile defined in cabinet SYSCNT is listed, "(S)" is shown after the name. However, if you use the cabinet SYSCNT, "(S)" is not shown.
Work-parameter	A64			For internal use. See **The Work Parameter**.

Return Codes

00	Success
77	End of list
90	No profile(s) found

Subprograms

None

Example

```
0010 *
0020 * Return 20 printer profiles of cabinet 'SYSCNT' beginning with 'z'
0030 *
0040 DEFINE DATA LOCAL
0050 1 RETURN-CODE      (N2)
0060 1 CABINET          (A8)
0070 1 START-VALUE      (A32)
0080 1 NUMBER           (N2)
0090 1 PROFILE-TABLE    (A35/1:20)
0100 1 WORK-PARAMETER   (A64)
0110 *
0120 END-DEFINE
0130 *
0140 RESET RETURN-CODE
0150 MOVE 'SYSCNT' TO CABINET
0160 MOVE 'Z'      TO START-VALUE
0170 MOVE 20       TO NUMBER
0180 *
0190 REPEAT UNTIL RETURN-CODE = 77
0200 CALLNAT 'Z-DIS23'
0210   RETURN-CODE
0220   CABINET
0230   START-VALUE
0240   NUMBER
0250   PROFILE-TABLE (*)
0260   WORK-PARAMETER
0270 *
0280 IF NOT RETURN-CODE EQ 0 OR EQ 77
0290   WRITE 'Return code:' RETURN-CODE
0300   STOP
0310 END-IF
0320 *
0330 PRINT PROFILE-TABLE(*)
0340 END-REPEAT
0350 END
```

Z-DIS27

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of reference documents.

You can display either all reference documents of a cabinet in alphabetical order, or all reference documents of a folder/file in date order.

To display all reference documents of a cabinet, you must not specify a folder or file.

Folders and files can be specified either by their numbers or by their names. You must not specify both.

Note:
You can invoke Z-DIS13 prior to this subprogram to return the number of a user-defined folder.

Reference documents from the Wastebasket, Inbasket or Outbasket are displayed only, if the parameter Folder-name or Folder-number is specified.

Note:
If the Inbasket or folder number 1 is specified without entering a file number or file name, this subprogram returns the reference documents of all Inbasket files.

A reference document name can be specified in parameter Start-value for alphabetical order or user-defined sequence. A reference document date can be specified in parameter Start-value for ascending or descending date order.

The parameter Name-sent-to/by is only returned for reference documents that are stored in the Inbasket and Outbasket.

A complete list of reference documents is returned if this subprogram is invoked iteratively. In this case, the parameters cannot be modified once this subprogram has been invoked. If this subprogram is invoked iteratively, the Work-parameter contains the needed restart values.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The name of the cabinet in which you want to display the list of reference documents.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	O*		The name of the folder from which you want to display the list of reference documents. Either Folder-name or Folder-number, not both.
File-name	A15	O*		The name of the file from which you want to display the list of reference documents. If File-name is specified, Folder-name must also be specified. Either File-name or File-number, not both.
Folder-number	N5	O*		The number of the folder from which you want to display the list of reference documents. Either Folder-number or Folder-name, not both. See **Folder Numbers**.
File-number	N5	O*		The number of the file from which you want to display the list of reference documents. If File-number is specified, Folder-number must also be specified. Either File-number or File-name, not both. See **File Numbers**.
Folder-sequence	N1	O		1 (ascending by date), 2 (descending by date), or 3 (user-defined). Default: 1.
Start-value	A32	O		Reference document name for alphabetical order or user-defined sequence. Reference document date (yyyymmdd) for ascending or descending date order in a folder/file.
Number	N2	O		The maximum number of reference documents that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Reference-table (20)				
Reference-ISN	P10		X	The ISN of the reference document.
Reference-name	A32		X	The name of the reference document.
Description	A60		X	The first line of the description.
Stored-in-folder	A15		X	The name of the folder in which the reference document is stored.
Stored-in-file	A15		X	The name of the file in which the reference document is stored.
Date-filed	N8		X	The date when the reference document was filed in this cabinet. When the reference document is filed in the Inbasket or Outbasket, this is the date when the item was sent.

Parameter	Format	In	Out	Remarks
Name-sent-to/by	A20		X	When the reference document is filed in the Inbasket, this is the name of the sender. When the reference document is filed in the Outbasket, this is the name of the first addressee.
Mailcount	N7		X	When the reference document is filed in the Outbasket, this is the number of addressees to whom the item was sent.
Work-parameter	A49			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
11	Supply folder/file name or number, not both
55	Requested folder/file does not exist
73	Invalid folder/file name
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-175
Z-1200&0

Example

```
0010 *
0020 *  Display list of reference documents
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE      (N2)
0070 1 CABINET          (A8)
0080 1 PASSWORD         (A8)
0090 1 FOLDER-NAME      (A15)
0100 1 FILE-NAME        (A15)
0110 1 FOLDER-NUMBER    (N5)
0120 1 FILE-NUMBER      (N5)
0130 1 FOLDER-SEQUENCE  (N1)
0140 1 START-VALUE      (A32)
0150 1 NUMBER           (N2)
0160 1 REFERENCE-TABLE(20)
0170   2 REFERENCE-ISN  (P10)
```

```
0180   2 REFERENCE-NAME (A32)
0190   2 DESCRIPTION    (A60)
0200   2 STORED-IN-FOLDER(A15)
0210   2 STORED-IN-FILE (A15)
0220   2 DATE-FILED     (N8)
0230   2 NAME-SENT-TO/BY(A20)
0240   2 MAILCOUNT      (N7)
0250 1 WORK-PARAMETER   (A49)
0260 1 INDEX            (N2)
0270 *
0280 END-DEFINE
0290 *
0300 MOVE   'CABINET'         TO  CABINET
0310 MOVE   'PASSWORD'        TO  PASSWORD
0320 MOVE   'WORK'            TO  FOLDER-NAME
0330 MOVE   '19961231'        TO  START-VALUE
0340 MOVE    20               TO  NUMBER
0350 *
0360 RESET RETURN-CODE
0370 REPEAT UNTIL RETURN-CODE NE 0
0380 *
0390 CALLNAT 'Z-DIS27'
0400   RETURN-CODE
0410   CABINET
0420   PASSWORD
0430   FOLDER-NAME
0440   FILE-NAME
0450   FOLDER-NUMBER
0460   FILE-NUMBER
0470   FOLDER-SEQUENCE
0480   START-VALUE
0490   NUMBER
0500   REFERENCE-TABLE (*)
0510   WORK-PARAMETER
0520 *
0530   FOR INDEX 1 TO 20
0540     IF REFERENCE-ISN(INDEX) EQ 0
0550       ESCAPE BOTTOM
0560     ELSE
0570       NEWPAGE
0580       WRITE(AD=L) INDEX                          //
0590         'ISN             ' REFERENCE-ISN(INDEX)   /
0600         'Reference name  ' REFERENCE-NAME(INDEX)  /
0610         'Description     ' DESCRIPTION(INDEX)     /
0620         'Stored in folder' STORED-IN-FOLDER(INDEX)/
0630         'Stored in file  ' STORED-IN-FILE(INDEX)  /
0640         'Date filed      ' DATE-FILED(INDEX)      /
0650         'Name sent to/by ' NAME-SENT-TO/BY(INDEX) /
0660         'Mailcount       ' MAILCOUNT(INDEX)       /
0670     END-IF
0680   END-FOR
0690 END-REPEAT
0700   WRITE  'Return code ' RETURN-CODE
0710 END
```

Z-DIS33

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of users (not cabinets) including work address information.

You must specify either User-ID or User-name. You must not specify both. To display a list of all users, you can specify an asterisk (*). To display a list of all users starting with one or more specific letters, you can specify the letter(s) followed by an asterisk (for example, sm*).

The output in the Data-table is determined by the fields that you define - see the following table:

No.	Field	Format	Remarks
01	User ID	A8	
02	Last name	A32	
03	First name	A32	
04	Initial	A1	
05	Title	A32	
06	Company	A32	
07	Location	A32	
08	Address	A60	Only the first line of the address lines.
09	City	A32	
10	Country	A8	
11	Department name	A32	
12	Department number	A10	
13	Phone	A15	
14	Phone country code	A2	
15	Phone extension	A5	
16	Postal code	A10	
17	State	A8	The field to the right of "City" in the "Display User Address" screen.

To define a field, you must specify its number in the parameter Fields. For example, when you define the field numbers 02, 03, 13 and 15, the last and first name of a user will be returned together with the phone number and extension.

The length of all specified fields must not exceed 200 bytes.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		Any user can invoke this subprogram.
Password	A8	R		The password of the above cabinet.
User-ID	A8	R*		Either User-ID or User-name, not both.
User-name	A32	R*		Either User-name or User-ID, not both.
Number	N2	O		The maximum number of users that are returned with each call. When you do not specify a value, or when you specify a value greater than 12, the default value 12 is used.
Fields	N2/1:17	R		See the above table.
Data-table	A200/1:12		X	The output in the Data-table is determined by the Fields you specified.
Work-parameter	A46			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list
90	Data element in Data-table too large
91	Field was not defined
92	Supply either user name or user ID, not both
93	User name or user ID has not been specified

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 *
0050 1 RETURN-CODE              (N2)
0060 1 CABINET                  (A8)
0070 1 PASSWORD                 (A8)
0080 1 USER-ID                  (A8)
0090 1 USER-NAME                (A32)
0100 1 NUMBER                   (N2)
0110 1 FIELDS                   (N2/1:17) INIT <1,2,3,13>
0120 1 DATA-TABLE               (1:12)
0130   2 DATA-ELEMENT           (A200)
0140   2 REDEFINE DATA-ELEMENT
0150     3 DE-USER-ID           (A8)
0160     3 DE-LAST-NAME         (A32)
0170     3 DE-FIRST-NAME        (A32)
0180     3 DE-PHONE             (A15)
0190 1 WORK-PARAMETER           (A46)
0200 *
0210 1 #INDEX                   (P03)
0220 *
0230 END-DEFINE
0240 *
0250 INPUT (IP=OFF AD=A'_')
0260         'Cabinet           ' CABINET
0270      /  'Password          ' PASSWORD (AD=N)
0280      /  'Start with User ID' USER-ID
0290 *
0300 REPEAT
0310      CALLNAT 'Z-DIS33'
0320           RETURN-CODE
0330           CABINET
0340           PASSWORD
0350           USER-ID
0360           USER-NAME
0370           NUMBER
0380           FIELDS (*)
0390           DATA-TABLE (*)
0400           WORK-PARAMETER
0410      IF   RETURN-CODE EQ 0 OR EQ 77
0420           WRITE NOTITLE 'List of phone numbers' /
0430           FOR  #INDEX EQ 1 TO 12
0440                IF   DE-USER-ID (#INDEX) NE ' '
0450                     WRITE NOTITLE
0460                          DE-USER-ID (#INDEX)
0470                          DE-LAST-NAME (#INDEX)
0480                          DE-FIRST-NAME (#INDEX) (AL=20)
0490                          DE-PHONE (#INDEX)
0400                END-IF
0510           END-FOR
0520           IF   RETURN-CODE EQ 77
0530                WRITE NOTITLE / 'End of List'
0540           ELSE
0550                NEWPAGE
0560           END-IF
0570      ELSE
0580           WRITE NOTITLE 'Users could not be found:' RETURN-CODE
0590      END-IF
```

```
0600 UNTIL RETURN-CODE GT 0
0610 END-REPEAT
0620 *
0630 END
```

Z-DIS39A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of all addressees to whom the user of a specific cabinet can send mail.

If Address-type 0 (all) is chosen, Address-type 33 (user ID) is not considered, because the information is returned with Address-type 70 (name).

If Address-type 33 (user ID) or 70 (name) is chosen, this subprogram returns Last-name, First-name, Initial, Title and information about the work address.

If either Address-type 1 (address) or 0 (all) is chosen for a nickname that does not refer to a Con-nect user (e.g. the phone number of your doctor), this subprogram does not return addressees. In this case, only the parameter Last-name is filled with the nickname.

This subprogram performs the following checks:

- if the selected Address-type is 74 (external) and the cabinet from which this subprogram was invoked cannot use external mailing facilities, return code 77 is issued; in this case no addresses are returned;
- if the selected address has a send level greater than that of the cabinet from which this subprogram was invoked, the selected address is not returned.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list. In this case, the Work-parameter contains the needed information. The parameters cannot be modified.

Note:
This subprogram does not return members of a distribution list - this function is supported by Z-DIS17A and Z-DIS17B.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET
Cabinet	A8	R		The cabinet for which you want to display the list.
Password	A8	R		The password of the above cabinet.
Start-name	A19	O		The name of an addressee. If a start value is not specified or an asterisk (*) is specified, the search starts at the first possible value. This subprogram first searches for the address records in the specified cabinet and then in cabinet SYSCNT.
Number	N2	O		The maximum number of addressees that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Address-type	N2	R		Must be one of the following: 1=Address (nickname), 4=Bulletin, 5=Cabinet, 10=Distribution, 33=User ID, 70=Name, 74=External, 0=All. All other values are handled as 0.
Address-table (20)				
Returned-address-type	N2		X	See **Address Types**.
Mail-ID	A8		X	The ID of the addressee.
Last-name	A32		X	The addressee’s last name.
First-name	A32		X	The addressee’s first name.
Initial	A1		X	The addressee’s initial.
Title	A32		X	Part of the addressee’s work address.
Company	A32		X	Part of the addressee’s work address.
Department-name	A32		X	Part of the addressee’s work address.
Department-number	A10		X	Part of the addressee’s work address.
Work-address	A60/1:3		X	Part of the addressee’s work address.
Work-city	A32		X	Part of the addressee’s work address.
Work-postal-code	A10		X	Part of the addressee’s work address.
Work-phone	A15		X	Part of the addressee’s work address.
Work-extension	A10		X	Part of the addressee’s work address.
Work-parameter	A54			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list

Subprograms

Z-120
Z-122
Z-211
Z-1200&0

Example

```
0010 * Display address list entries
0020 *
0030 DEFINE DATA
0040 LOCAL
0050 1 RETURN-CODE      (N2)
0060 1 CABINET          (A8)
0070 1 PASSWORD         (A8)
0080 1 START-NAME       (A19)
0090 1 NUMBER           (N2)
0100 1 ADDRESS-TYPE     (N2)
0110 1 ADDRESS-TABLE    (20)     /* Redefinition see parameter list
0120 1 WORK-PARAMETER   (A54)
0130 1 INDEX            (N2)
0140 END-DEFINE
0150 *
0160 MOVE 'CABINET'     TO CABINET
0170 MOVE 'PASSWORD'    TO PASSWORD
0180 MOVE 'START-NAME'  TO START-NAME
0190 MOVE  0            TO ADDRESS-TYPE
0200 *
0210 CALLNAT 'Z-DIS39A'
0220 *
0230 IF RETURN-CODE EQ 0 OR EQ 77
0240    FOR INDEX 1 TO 20
0250         WRITE ADDRESS-TABLE(INDEX)
0260    END-FOR
0270 ELSE
0280    WRITE 'Return code:' RETURN-CODE
0290 END-IF
0300 END
```

Z-DIS74

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of external nodes.

The external nodes are sorted alphabetically by name.

If you want to display a specific node type, you must specify the node type in the parameter Allowed-types. You can specify more than one node type in the parameter Allowed-types, for example "AFH". If you do not specify a node type, a list of all external nodes is returned.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list. With each call a list of 12 external nodes is returned.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Allowed-types	A35	O		A=remote Con-nect node, B=Telex, F=SNADS, G=printer, H=Telefax, T=Teletex, U=Lotus AU/Con-nect: Internet E-mail. Only the node types installed on your system can be specified. If blank, a list of all nodes is returned.
Nodes (12)				
Node-name	A8		X	The name of the external node.
Node-type	A1		X	A=remote Con-nect node, B=Telex, F=SNADS, G=printer, H=Telefax, T=Teletex, U=Lotus AU/Con-nect: Internet E-mail.
Node-service	A1		X	S=spool file, T=transport service.
Node-description	A40		X	The description of the external node.
Work-parameter	A13			For internal use. See **The Work Parameter**.

Return Codes

00	Success
77	End of list

Subprograms

None

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE            (N2)
0040 1 ALLOWED-TYPES          (A35)     INIT<'BHT'>
0050 1 NODES                  (12)
0060   2 NODE-NAME            (A8)
0070   2 NODE-TYPE            (A1)
0080   2 NODE-SERVICE         (A1)
0090   2 NODE-DESCRIPTION     (A40)
0100 1 WORK-PARAMETER         (A13)
0110 1 I                      (I1)
0120 END-DEFINE
0130 *
0140 REPEAT
0150   CALLNAT 'Z-DIS74' RETURN-CODE ALLOWED-TYPES NODES(*) WORK-PARAMETER
0160   IF RETURN-CODE EQ 0 OR = 77
0170    FOR I EQ 1 TO 12
0180      IF NODE-NAME(I) EQ ' '
0190        ESCAPE BOTTOM
0200      ELSE
0210        WRITE NODE-NAME(I) NODE-TYPE(I) NODE-SERVICE(I) NODE-DESCRIPTION(I)
0220      END-IF
0230    END-FOR
0240   END-IF
0250   UNTIL RETURN-CODE NE 0
0260 END-REPEAT
0270 *
0280 END
```

Z-DIS79

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Display a list of logical printers.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Note:
When you operate under Natural Advanced Facilities, the name of the logical printer profile is returned in the parameter Printer-TID.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Start-value	A32	O		The name of a logical printer. If Start-value is not specified, a list of all logical printers is returned. When you specify a name (e.g. "sag"), the list starts with the specified name and continues until the end of the list is reached. When you specify a name with an asterisk (e.g. "sag*"), only the names that start with the specified characters are returned.
Number	N2	O		The maximum number of logical printers that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Printer-table (20)				
Printer-name	A32		X	The name of the logical printer.
Printer-TID	A8		X	The terminal ID number, LU number or comparable terminal destination for the printer which is used when the user enters the name of the logical printer.
Printer-profile	A32		X	The printer profile which is assigned to the logical printer.
Work-parameter	A64			For internal use. See **The Work Parameter**.

Return Codes

00	Success
77	End of list
90	No logical printer(s) found

Subprograms

None

Example

```
0010 *
0020 * Return all logical printer names beginning with 'Z'
0030 *
0040 DEFINE DATA LOCAL
0050 1   RETURN-CODE          (N2)
0060 1   START-VALUE          (A32)
0070 1   NUMBER               (N2)
0080 1   PRINTER-TABLE        (20)
0090 2   PRINTER-NAME         (A32)
0100 2   PRINTER-TID          (A8)
0110 2   PRINTER-PROFILE      (A32)
0120 1   WORK-PARAMETER       (A64)
0130 *
0140 END-DEFINE
0150 *
0160 MOVE 'Z*' TO START-VALUE
0170 *
0180 REPEAT UNTIL RETURN-CODE EQ 77
0190 CALLNAT 'Z-DIS79' RETURN-CODE START-VALUE NUMBER
0200   PRINTER-TABLE(*) WORK-PARAMETER
0210 *
0220 IF  NOT RETURN-CODE = 0 OR = 77
0230     WRITE 'RETURN CODE' RETURN-CODE
0240     STOP
0250 END-IF
0260 *
0270 PRINT PRINTER-TABLE(*)
0280 *
0290 END-REPEAT
0300 END
```

Z-DRIVER

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Load a Con-nect printer profile into the Con-form buffer.

This subprogram can be used before directing a printout to the printer via the COMPOSE FORMATTING statement. The COMPOSE FORMATTING statement then acts upon the information in the Con-form buffer and prints using the printer profile specified by this subprogram.

A previously loaded printer profile is unloaded by either of the following:

- execution of a COMPOSE RESETTING ALL statement, or
- formatting a document and sending it to a destination other than a Natural report.

With Z-DRIVER you can optionally call Z-OPSEQ to load the printer open sequence and Z-CLSEQ to load the printer close sequence.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The name of the cabinet which contains the printer profile.
Printer-profile	A32	R		The name of the printer profile.

Return Codes

00	Success
02	Invalid cabinet name
83	Invalid printer profile name
84	Requested printer profile does not exist
86	Printer driver module cannot be loaded
90	Printer association not found

Subprograms

Z-110
Z-162
Z-170

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE     (N2)
0030 1 CABINET         (A8)
0040 1 PRINTER-PROFILE (A32)
0050 1 REPORT-NUMBER   (B1)           /* used by Z-OPSEQ and Z-CLSEQ
0060 END-DEFINE
0070 *
0080 DEFINE PRINTER(1) OUTPUT '289'   /* (1) = report number
0090 FORMAT (1) LS = 120 PS = 60
0100 *
0110 MOVE 1 TO REPORT-NUMBER          /* for Z-OPSEQ and Z-CLSEQ
0120 MOVE 'SYSCNT' TO CABINET
0130 MOVE 'CANON'  TO PRINTER-PROFILE
0140 COMPOSE RESETTING ALL
0150 *
0160 CALLNAT 'Z-DRIVER' RETURN-CODE CABINET PRINTER-PROFILE
0170 IF  RETURN-CODE NE 0
0180     WRITE 'Return code' RETURN-CODE
0190 ELSE
0200     CALLNAT 'Z-OPSEQ' RETURN-CODE CABINET REPORT-NUMBER       /* open
0210        IF RETURN-CODE = 0
0220           COMPOSE FORMATTING INPUT 'Document name'
0230                   FROM CABINET 'Cabinet name'
0240                   OUTPUT(1)
0250           CALLNAT 'Z-CLSEQ' RETURN-CODE CABINET REPORT-NUMBER /* close
0260        ELSE
0270           WRITE 'Invalid report number' RETURN-CODE
0280        END-IF
0280 END-IF
0290 END
```

Z-ENC11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Enclose documents with a host document, or detach enclosures from a host document.

The following functions are available:

Function code 1 - Add enclosures to a host document

You can enclose up to 10 documents with a host document.

To specify the documents which are to be enclosed, you can either use the array Enclosure-name or Enclosure-ISN. The occurrences of an array must be filled contiguously. The first occurrence of an array identifies whether the enclosures are specified by name or ISN; i.e. when you fill the first occurrence with the ISN, you must also fill all other occurrences with ISNs. You must not use both names and ISNs within an array.

However, you can fill the parameter Host-document-ISN with the ISN and the occurrences of the array Enclosure-name with the names.

The documents are enclosed in the same order as they appear in the array. If the host document already contains enclosures, the new enclosures will be placed after them.

Function code 2 - Get enclosures of a host document

To get the names of documents which are currently enclosed with a host document, you must leave the arrays Enclosure-name and Enclosure-ISN empty.

The names of the enclosures are returned in the array Enclosure-name.

Function code 3 - Detach enclosures from a host document

When you use this subprogram to detach enclosures, all detached enclosures are erased from Con-nect. They are not placed in the Wastebasket. Cover notes and attached notes are not considered by this subprogram.

To specify the enclosures which are to be detached from a host document, you must specify their names in the array Enclosure-name.

When you specify a document which is not an enclosure of the host document, this name remains in the array Enclosure-name after all other enclosures have been detached. This array will normally be empty, if all specified enclosures have been found and detached.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the host document.
Password	A8	R		The password of the above cabinet.
Host-document-name	A32	R*		The name of the host document. Either Host-document-name or Host-document-ISN, not both.
Host-document-ISN	P10	R*		The ISN of the host document. Either Host-document-ISN or Host-document-name, not both.
Enclosure-name	A32/1:10	R*	X	The names of the enclosures. Input: either Enclosure-name or Enclosure-ISN, not both.
Enclosure-ISN	P10/1:10	R*		The ISNs of the enclosures. Either Enclosure-ISN or Enclosure-name, not both. You can only specify Enclosure-ISN when you add an enclosure. You must not specify Enclosure-ISN when you detach an enclosure. However, you can specify Enclosure-name in both cases.
Index	P3		X	A value is returned for return codes 4, 9, 51 and 53. Values 1 through 10 indicate the position (occurrence) of the enclosure in the array; 0 indicates the host document.
Function-code	N2	R		1=add enclosures, 2=get enclosure names, or 3=detach enclosures.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	Document ISN was not found
08	Supply either document ISN or name, not both
09	ISN does not point to a document record
51	Invalid document name
53	Requested object does not exist
91	No more enclosures possible
92	Too many documents to enclose
93	Documents cannot be enclosed with a document in a system folder
94	Wrong function code
95	Host document does not contain enclosures
96	To detach an enclosure, you must specify its name (you must not use the ISN)
97	The specified enclosures are no enclosures of the host document

Subprograms

Z-120
Z-122
Z-123
Z-180
Z-185
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE         (N2)
0040 1 CABINET             (A8)
0050 1 PASSWORD            (A8)
0060 1 HOST-DOCUMENT-NAME  (A32)          /* Host document
0070 1 HOST-DOCUMENT-ISN   (P10)
0080 1 ENCLOSURE-NAME      (A32/1:10)     /* Enclosures
0090 1 ENCLOSURE-ISN       (P10/1:10)
0100 1 INDEX               (P3)
0110 1 FUNCTION-CODE       (N2)
0120 *
0130 * FUNCTION-CODE:
0140 *    1 = Add enclosures
0150 *    2 = Get enclosure names
0160 *    3 = Detach enclosures
```

```
0170 *
0180 END-DEFINE
0190 *
0200 RESET RETURN-CODE
0210       INDEX
0220 *
0230 MOVE  1               TO  FUNCTION-CODE       /* Add enclosures
0240 MOVE 'CABINET'        TO  CABINET
0250 MOVE 'PASSWORD'       TO  PASSWORD
0260 MOVE 177271           TO  HOST-DOCUMENT-ISN   /* Host document
0270 *
0280 MOVE 'Encl1'          TO  ENCLOSURE-NAME(1)
0290 MOVE 'Encl2'          TO  ENCLOSURE-NAME(2)
0300 *
0310 CALLNAT 'Z-ENC11'  RETURN-CODE
0320    CABINET
0330    PASSWORD
0340    HOST-DOCUMENT-NAME
0350    HOST-DOCUMENT-ISN
0360    ENCLOSURE-NAME(*)
0370    ENCLOSURE-ISN (*)
0380    INDEX
0390    FUNCTION-CODE
0400 *
0410 IF RETURN-CODE EQ 0
0420    WRITE 'Enclosures were added'
0430 ELSE
0440    WRITE 'Return code' RETURN-CODE
0450 END-IF
0460 *
0470 END
```

Z-ERA01

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Erase a nickname.

This subprogram applies to a nickname for an internal Con-nect address, a nickname for an external address using the spool file, and a nickname for an external address using the transport service.

When the Deletion-flag is blank, the nickname is moved to the Wastebasket of the cabinet. When the Deletion-flag is marked or when the nickname is already stored in the Wastebasket, the nickname is erased from Con-nect and cannot be recovered.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the nickname is to be erased.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R*		The nickname to be erased.
ISN	P8	R*		The ISN of the nickname to be erased. If both ISN and nickname are supplied, their consistency with one another is verified. You can invoke Z-GET01 or Z-GET01T prior to Z-ERA01 to obtain the ISN for the desired nickname.
Deletion-flag	A1	O		If blank, the nickname is moved to the Wastebasket. If marked, the nickname is erased from Con-nect.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to a correct object
91	Invalid name
92	Address does not exist
99	ISN and nickname are not consistent

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Z-ERA03

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Erase an appointment.

When notes have been attached to the appointment, they are also erased. They cannot be retrieved.

Before you invoke this subprogram, you must first invoke Z-GET03B, Z-GET06A or Z-GET06B so that the Work-parameter is filled.

Note:
You can only use this subprogram to erase an appointment. You cannot use this subprogram to erase a meeting, reminder or todo.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the appointment is to be erased.
Password	A8	R		The password of the above cabinet.
Work-parameter	A40			For internal use. See **The Work Parameter**. Filled from a previous call to Z-GET03B, Z-GET06A or Z-GET06B.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
46	Requested appointment not found, or there is no appointment

Subprograms

Z-0420
Z-120
Z-122
Z-123
Z-180
Z-711
Z-1200&0

Z-ERA04

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Erase a bulletin board.

This subprogram can only be used by a supervisor or system administrator.

The bulletin board to be erased must be empty, i.e. it must not contain any objects.

To erase all objects on a bulletin board, you can use the Con-nect utility B04040. See the *Con-nect Utilities* documentation, section **Delete Bulletin Board Contents**.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET. The input -1 can lead to a hold queue overflow since all address records referring to the specified bulletin board are deleted.
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.
Bulletin-name	A15	R		The name of the bulletin board to be erased.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
51	Invalid name
53	Requested object does not exist
90	Bulletin board is not empty

Subprograms

Z-0404
Z-0417
Z-120
Z-122
Z-123
Z-1200&0

Z-ERA05

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Mark a cabinet for deletion.

This subprogram can be used only by a supervisor or cabinet administrator.

After a cabinet has been marked for deletion, it is not deleted until the Con-nect utility B04050 is run. See the *Con-nect Utilities* documentation, section **Delete Pending Cabinets**.

The cabinet which has been marked for deletion is not deleted by the utility before the date specified in the parameter Delete-date has been reached.

You can also use this subprogram to cancel a deletion mark. To do so, you must mark the parameter Reset-flag for the specified cabinet. The return code 92 indicates that the deletion mark has been canceled.

Successful termination of Z-ERA05 always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-delete	A8	R		The name of the cabinet to be deleted.
Delete-date	A8	O		Format yyyymmdd. The date specified is interpreted as GMT date with GMT time as 0. If a date is not specified, the current date is assumed.
Reset-flag	A1	O		If marked, the Cabinet-delete mark is canceled.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
90	Cabinet record does not exist
91	Cabinet is already marked for deletion
92	Deletion mark of cabinet is canceled (not an error)
93	Invalid date format
94	Passed date
95	Cabinet-delete mark cannot be canceled, because the cabinet was not marked for deletion
96	Cabinet-delete is already marked for rename

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to erase a cabinet
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE         (N2)
0080 1 CABINET             (A8)
0090 1 PASSWORD            (A8)
0100 1 CABINET-DELETE      (A8)
0110 1 DELETE-DATE         (A8)
0120 1 RESET-FLAG          (A1)
0130 *
0140 END-DEFINE
0150 *
0160 RESET RETURN-CODE
0170 MOVE 'ADMIN'        TO CABINET
0180 MOVE 'ADMIN'        TO PASSWORD
0190 MOVE 'FBL'          TO CABINET-DELETE
0200 MOVE '19931224'     TO DELETE-DATE
0210 *
0220 *
0230 CALLNAT 'Z-ERA05'
0240   RETURN-CODE
0250   CABINET
0260   PASSWORD
```

```
0270   CABINET-DELETE
0280   DELETE-DATE
0290   RESET-FLAG
0300 *
0310   IF RETURN-CODE EQ 0
0320      WRITE 'Cabinet was marked for deletion'
0330   ELSE
0340      WRITE 'Return code :' RETURN-CODE
0350   END-IF
0360 *
0370 END
```

Z-ERA10

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Erase a distribution list and all the members contained in the list.

You cannot erase a distribution list that has been created for a shared cabinet.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the distribution list is stored.
Password	A8	R		The password of the above cabinet.
Distribution-name	A32	R*		The name of the distribution list to be erased. Either Distribution-name or ISN, not both.
ISN	P8	R*		The ISN of the distribution list to be erased. Either ISN or Distribution-name, not both.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
90	Distribution list belongs to a shared cabinet

Subprograms

Z-120
Z-122
Z-123
Z-196
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE         (N2)
0030 1 CABINET             (A8)
0040 1 PASSWORD            (A8)
0050 1 DISTRIBUTION-NAME   (A32)
0060 1 ISN                 (P8)
0070 END-DEFINE
0080 *
0090 MOVE 'USER-ID' TO CABINET
0100 MOVE 'PW'      TO PASSWORD
0110 MOVE 'DISTR-1' TO DISTRIBUTION-NAME
0120 *
0130 CALLNAT 'Z-ERA10' RETURN-CODE CABINET PASSWORD
0140   DISTRIBUTION-NAME ISN
0150 *
0160 IF RETURN-CODE EQ 0
0170    WRITE 'Distribution list was erased'
0180 ELSE
0190    WRITE 'Return code' RETURN-CODE
0200 END-IF
0210 *
0220 END
```

Z-ERA11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Erase a document.

When the Deletion-flag is blank, the document is moved to the Wastebasket of the cabinet. When the Deletion-flag is marked, the document is erased from Con-nect and cannot be recovered.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be erased.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be erased. Either Document-name or ISN, not both. The parameter Document-name is reset after a successful deletion.
ISN	P8	R*		The ISN of the document to be erased. Either ISN or Document-name, not both. The parameter ISN is reset after a successful deletion. You can invoke Z-DIS11 prior to Z-ERA11 to obtain the ISN for the desired document.
Deletion-flag	A1	O		If blank, the document is moved to the Wastebasket. If marked, the document is erased from Con-nect.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist

Subprograms

Z-100
Z-110
Z-120
Z-122
Z-123
Z-147
Z-165
Z-175
Z-177
Z-180
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-ERA11B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Erase a document from a bulletin board.

The document is always placed in the Wastebasket of the person who has sent the document to the bulletin board.

This subprogram can only be used by a supervisor, system administrator or by the user who sent the document to the bulletin board.

Calling Z-DIS04A prior to this subprogram returns the required document ISN.

When a value other than 0 is returned in the parameter Return-code, BACKOUT TRANSACTION is always issued.

Note:
This subprogram only erases documents. It does not erase any other kind of object from a bulletin board.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator, or of the user who sent the document to the bulletin board.
Password	A8	R		The password of the above cabinet.
Document-ISN	P8	R		The ISN of the document to be erased.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
99	User not allowed to erase item

Subprograms

Z-100
Z-110
Z-120
Z-122
Z-123
Z-175
Z-180
Z-190
Z-1200&0

Z-ERA11X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Erase a document.

This subprogram is the same as Z-ERA11 with the one exception that the parameter ISN uses the format P10.

When the Deletion-flag is blank, the document is moved to the Wastebasket of the cabinet. When the Deletion-flag is marked, the document is erased from Con-nect and cannot be recovered.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be erased.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be erased. Either Document-name or ISN, not both. The parameter Document-name is reset after a successful deletion.
ISN	P10	R*		The ISN of the document to be erased. Either ISN or Document-name, not both. The parameter ISN is reset after a successful deletion. You can invoke Z-DIS11X prior to Z-ERA11X to obtain the ISN for the desired document.
Deletion-flag	A1	O		If blank, the document is moved to the Wastebasket. If marked, the document is erased from Con-nect.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist

Subprograms

Z-100
Z-110
Z-120
Z-122
Z-123
Z-147
Z-165
Z-175
Z-177
Z-180
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 *
0020 * Example program to erase a document.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE         (N2)
0070 1 CABINET             (A8)
0080 1 PASSWORD            (A8)
0090 1 DOCUMENT-NAME       (A32)
0100 1 ISN                 (P10)
0110 1 DELETION-FLAG       (A1)
0120 END-DEFINE
0130 *
0140 RESET RETURN-CODE
```

```
0150 RESET DOCUMENT-NAME
0160 MOVE 'CABINET'  TO CABINET
0170 MOVE 'PASSWORD' TO PASSWORD
0180 MOVE 1234567890 TO ISN
0190 MOVE 'X'        TO DELETION-FLAG
0200 *
0210 CALLNAT 'Z-ERA11X'
0220   RETURN-CODE
0230   CABINET
0240   PASSWORD
0250   DOCUMENT-NAME
0260   ISN
0270   DELETION-FLAG
0280 *
0290 IF  RETURN-CODE EQ 0
0300   WRITE 'Document was erased'
0310 ELSE
0320   WRITE 'Return code' RETURN-CODE
0330 END-IF
0340 *
0350 END
```

Z-ERA13

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Erase a folder or file.

You can only erase an empty folder or file. You cannot erase a system folder such as the Wastebasket or the folder Work.

To erase a file, you must specify the file name and the name of the folder in which it is stored.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the folder or file is stored.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	R		Either the name of the folder to be erased, or the name of the folder in which the file to be erased is stored.
File-name	A15	O		The name of the file to be erased.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
10	Function not valid for a system folder
55	Requested folder/file does not exist
73	Invalid folder/file name
90	Folder/file is not empty
91	Folder/file name is required
92	Folder name is required to erase a file

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE (N2)
0030 1 CABINET     (A8)
0040 1 PASSWORD    (A8)
0050 1 FOLDER-NAME (A15)
0060 1 FILE-NAME   (A15)
0070 END-DEFINE
0080 *
0090 INPUT 'CABINET      :' CABINET /
0100       'PASSWORD     :' PASSWORD  /
0110       'FOLDER-NAME  :' FOLDER-NAME /
0120       'FILE-NAME    :' FILE-NAME /
0130       'RETURN-CODE  :' RETURN-CODE
0140 *
0150 CALLNAT 'Z-ERA13' RETURN-CODE
0160                   CABINET
0170                   PASSWORD
0180                   FOLDER-NAME
0190                   FILE-NAME
0200 *
0210 IF RETURN-CODE EQ 0
0220   WRITE 'Folder/file was erased'
0230 ELSE
0240   WRITE 'Folder/file could not be erased:' RETURN-CODE
0250 END-IF
0260 *
0270 END
```

Z-ERA17

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Erase a member from a distribution list.

You cannot erase a member from a distribution list that has been created for a shared cabinet.

You can specify the following in the parameter Member-name: a Con-nect user, a bulletin board, a cabinet, another distribution list or an external node (for example, a Telex or SNADS node). You can also specify a nickname for any type of member previously listed.

When you delete a user, you can either specify the user's last and first name or user ID in the parameter Member.

When you specify a bulletin board, a nickname or the user's last and first name in parameter Member, you must also specify the parameter Member-type.

If only one member with the specified name is contained in the distribution list, the parameter Member-type is not necessary.

If the member name is not unique and a member type has not been specified, return code 91 is issued. To prevent return code 91, you should specify parameter Member-type.

If you specify an asterisk (*) in the parameter Member-name, all members of the distribution list are deleted.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the distribution list is stored.
Password	A8	R		The password of the above cabinet.
Distribution-name	A12	R		The name of the distribution list which contains the member to be erased.
Member-name	A20	R*		The name of the member to be erased. Or an asterisk (*) to erase all members of the distribution list. Either Member-name or Member-ISN, not both.
Member-type	N2	O		Must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 10=distribution list, 33=user ID (private cabinet), 70=last name, 74=external address.
Member-ISN	P10	R*		The ISN of the member to be deleted. Either Member-ISN or Member-name, not both.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to the correct object
30	Distribution list name invalid
32	Member could not be found
51	Invalid member name
53	Requested object does not exist
90	Distribution list belongs to a shared cabinet
91	Member name is not unique
92	Invalid member type
93	No member was erased from the distribution list

Subprograms

Z-0417
Z-120
Z-122
Z-123
Z-147
Z-150
Z-710
Z-713
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE         (N2)
0030 1 CABINET             (A8)
0040 1 PASSWORD            (A8)
0050 1 DISTRIBUTION-NAME   (A12)
0060 1 MEMBER-NAME         (A20)
0070 1 MEMBER-TYPE         (N2)
0080 1 MEMBER-ISN          (P10)
0090 END-DEFINE
0100 *
0110 MOVE 'USER ID'  TO CABINET
0120 MOVE 'PW'       TO PASSWORD
0130 MOVE 'DISTR 1'  TO DISTRIBUTION-NAME
0140 MOVE 'USER2 ID' TO MEMBER-NAME
0150 MOVE 33         TO MEMBER-TYPE
0160 *
0170 CALLNAT 'Z-ERA17' RETURN-CODE
0180                   CABINET
0190                   PASSWORD
0200                   DISTRIBUTION-NAME
0210                   MEMBER-NAME
0220                   MEMBER-TYPE
0230                   MEMBER-ISN
0240 *
0250 IF RETURN-CODE EQ 0
0260    WRITE 'Member' MEMBER-NAME 'from distribution list'
0270           DISTRIBUTION-NAME 'was erased'
0280 ELSE
0290    WRITE 'Return code' RETURN-CODE
0300 END-IF
0310 *
0320 END
```

Z-ERA27

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Erase a reference document.

When the Deletion-flag is blank, the reference document is moved to the Wastebasket of the cabinet. When the Deletion-flag is marked, the reference document is erased from Con-nect and cannot be recovered.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the reference document is to be erased.
Password	A8	R		The password of the above cabinet.
Ref-document-name	A32	R*		The name of the reference document to be erased. Either Ref-document-name or ISN, not both. The parameter Ref-document-name is reset after a successful deletion.
ISN	P8	R*		The ISN of the reference document to be erased. Either ISN or Ref-document-name, not both. The parameter ISN is reset after a successful deletion.
Deletion-flag	A1	O		If blank, the reference document is moved to the Wastebasket. If marked, the reference document is erased from Con-nect.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist

Subprograms

Z-100
Z-110
Z-120
Z-122
Z-123
Z-147
Z-180
Z-190
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 *
0030   1 RETURN-CODE       (N2)
0040   1 CABINET           (A8)
0050   1 PASSWORD          (A8)
0060   1 REF-DOCUMENT-NAME (A32)
0070   1 ISN               (P8)
0080   1 DELETION-FLAG     (A1)
0090 *
0100 END-DEFINE
0110 *
0120 MOVE  'CABINET'        TO CABINET
0130 MOVE  'PASSWORD'       TO PASSWORD
0140 MOVE  'REFERENCE-NAME' TO REF-DOCUMENT-NAME
0150 RESET DELETION-FLAG    /* Reference document is moved to Wastebasket
0160 *
0170 CALLNAT 'Z-ERA27'
0180   RETURN-CODE
0190   CABINET
0200   PASSWORD
0210   REF-DOCUMENT-NAME
0220   ISN
0230   DELETION-FLAG
0240 *
0250 IF RETURN-CODE  EQ  0
0260   WRITE 'Reference document was erased'
0270 ELSE
0280   WRITE 'Return code' RETURN-CODE
0290 END-IF
0300 *
0310 END
```

Z-ERA74

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Delete an external node which uses either the transport service or the spool file. This subprogram can only be used by a system administrator or supervisor.

This subprogram deletes the specified external node immediately. When the external node is a member of a distribution list, it is also erased from the distribution list.

When you do not mark the parameter Delete-address, the address specifications for all nicknames (in all cabinets) which have been defined for the external node are deleted; however, the nicknames themselves are not erased. To erase the nicknames completely, you must mark the Delete-address parameter.

Successful termination of Z-ERA74 always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.
Node-name	A8	R		The name of the node to be deleted.
Delete-address	A1	O		If marked, all nicknames defined for the external node are erased.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
90	User is not a system administrator or supervisor
93	Node does not exist

Subprograms

Z-120
Z-122
Z-123
Z-196A
Z-1200&0

Z-ERA79

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Delete a logical printer.

This subprogram can be used only by a supervisor or system administrator. The specified logical printer is deleted immediately. A warning is not issued.

Successful termination of Z-ERA79 always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.
Printer-ISN	P8	R*		The ISN of the logical printer to be deleted. Either Printer-ISN or Printer-name, not both.
Printer-name	A32	R*		The name of the logical printer to be deleted. Either Printer-name or Printer-ISN, not both.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Printer-ISN or name
92	Printer-name not found
93	Printer-name not unique

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 DEFINE DATA
0030 LOCAL
0040 1 RETURN-CODE       (N2)
0050 1 CABINET           (A8)
0060 1 PASSWORD          (A8)
0070 1 PRINTER-ISN       (P8)
0080 1 PRINTER-NAME      (A32)
0090 *
0100 END-DEFINE
0110 *
0120 RESET RETURN-CODE
0130 MOVE 'CABINET'      TO CABINET
0140 MOVE 'PASSWORD'     TO PASSWORD
0150 MOVE 'PRINTER-NAME' TO PRINTER-NAME
0160 *
0170 CALLNAT 'Z-ERA79'
0180   RETURN-CODE
0190   CABINET
0200   PASSWORD
0210   PRINTER-ISN
0220   PRINTER-NAME
0230 *
0240 IF RETURN-CODE = 0
0250   WRITE 'Logical printer was erased'
0260 ELSE
0270   WRITE 'Return code' RETURN-CODE
0280 END-IF
0290 *
0300 END
```

Z-ERAOBJ

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Erase a user-defined object.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the user-defined object is to be erased.
Password	A8	R		The password of the above cabinet.
Object-name	A32	R*		The name of the user-defined object. Either Object-name or ISN, not both.
ISN	P8	R*		The ISN of the user-defined object. Either ISN or Object-name, not both.
Object-number	N2	R		The number of the user-defined object.
Deletion-flag	A1	O		If blank, the object is moved to the Wastebasket. If marked, the object is erased from the system.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
68	Object is not a user-defined object
91	Invalid name
93	Requested user-defined object does not exist

Subprograms

Z-100
Z-110
Z-120
Z-122
Z-123
Z-165
Z-175
Z-180
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-EXPU

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Update the expiration date and archive flag of a document.

If the parameter Expiration-date is 0 (zero), the expiration date is not updated (i.e. the previously defined value will still be used).

The expiration date you specify is checked against the default value ("Days until Expiration") specified by the system administrator. The expiration date must not be lower than the sum of the current date plus the default value.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the document to be updated.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be updated. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be updated. Either ISN or Document-name, not both.
Expiration-date	N8	O		The expiration date of the document. Format yyyymmdd.
Archive-flag	A1	O		If marked, the document will be stored on some other medium (e.g. on tape) when the expiration date is reached.

Return Codes

00	Success
02	Cabinet not found
03	Password incorrect
04	Document ISN was not found
08	Supply either document ISN or name, not both
09	ISN does not point to a document record
51	Document name incorrect
53	Document not found
62	Invalid date format
90	Invalid expiration date

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Z-FIL11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

File a document into another folder or file.

You can file a document into folder Work or any user-defined folder. You cannot file a document into a system folder such as the Inbasket or Outbasket.

You cannot specify a TRS folder or a TRS document. To file a document into a TRS folder, you must use Z-TRS11.

If you want to rename the document without filing it into another folder or file, you must specify New-document-name without specifing New-folder or New-file.

When you file a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be filed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be filed. Either Document-name or ISN, not both. You must not specify the name of a TRS document.
ISN	P8	R*	X	The ISN of the document to be filed. Input: either ISN or Document-name, not both. You must not specify the ISN of a TRS document. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
New-folder	A15	O		The name of the folder in which the document is to be stored.You must not specify a system folder (except Work) or TRS folder.
New-file	A15	O		The name of a file within the above folder in which the document is to be stored.
New-document-name	A32	O		If specified the document is filed with a new name.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*). When you specify at least one new keyword, all previously defined keywords are deleted. Thus, to retain the previously defined keywords you must specify them once more.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
90	TRS document may not be filed into any other folder

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-165
Z-175
Z-177
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-FIL11A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

File a document into another folder or file.

This subprogram is the same as Z-FIL11X with the exception that you can specify additional parameters: File-with-originals and New-keywords-only.

You can file a document into folder Work or any user-defined folder. You cannot file a document into a system folder such as the Inbasket or Outbasket.

You cannot specify a TRS folder or a TRS document. To file a document into a TRS folder, you must use Z-TRS11.

When you specify File-with-originals, all previous replies to this document are also filed. Since replies with a date and time later than the document you are currently filing are not considered, it is recommended that you always file the most recent object. So that you can easily retrieve all objects that you file together, it is recommended that you specify the same keyword(s) for all objects.

If you want to rename the document without filing it into another folder or file, you must specify New-document-name without specifing New-folder or New-file. Renaming is not possible when File-with-originals is also specified.

When you file a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be filed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be filed. Either Document-name or ISN, not both. You must not specify the name of a TRS document.
ISN	P10	R*	X	The ISN of the document to be filed. Input: either ISN or Document-name, not both. You must not specify the ISN of a TRS document. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
New-folder	A15	O		The name of the folder in which the document is to be stored.You must not specify a system folder (except Work) or TRS folder.
New-file	A15	O		The name of a file within the above folder in which the document is to be stored.
New-document-name	A32	O		If specified, the document is filed with a new name.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*). When you specify at least one new keyword, all previously defined keywords are deleted. Thus, to retain the previously defined keywords you must specify them once more.
New-keywords-only	A1	O		If specified, all documents are filed with the keywords specified with the Keywords parameter. If not specified, all documents are filed with the keywords that have previously been specified for them.
File-with-originals	A1	O		If specified, all previous replies to this document are also filed in the folder that is specified with the New-folder parameter.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
90	TRS document may not be filed into any other folder
91	Renaming is not possible when File-with-originals is specified

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-165
Z-175
Z-177
Z-190
Z-194
Z-197
Z-222
Z-223
Z-230
Z-400
Z-401
Z-1200&0

Example

```
DEFINE DATA
LOCAL
*
1 RETURN-CODE         (N2)
1 CABINET             (A8)
1 PASSWORD            (A8)
1 DOCUMENT-NAME       (A32)
1 ISN                 (P10)
1 NEW-FOLDER          (A15)
1 NEW-FILE            (A15)
1 NEW-DOCUMENT-NAME   (A32)
1 KEYWORDS            (A15/1:6)
1 NEW-KEYWORDS-ONLY   (A1)
1 FILE-WITH-ORIGINALS (A1)
*
END-DEFINE
*
MOVE 'Cabinet'   TO CABINET
MOVE 'Password'  TO PASSWORD
MOVE 'Doc-name1' TO DOCUMENT-NAME
MOVE 'Work'      TO NEW-FOLDER
MOVE 'Fwork1'    TO NEW-FILE
MOVE 'Key1'      TO KEYWORDS(1)
MOVE 'Key3'      TO KEYWORDS(3)
MOVE 'X'         TO NEW-KEYWORDS-ONLY
MOVE 'X'         TO FILE-WITH-ORIGINALS
*
CALLNAT 'Z-FIL11A'
  RETURN-CODE
  CABINET
  PASSWORD
  DOCUMENT-NAME
  ISN
  NEW-FOLDER
  NEW-FILE
  NEW-DOCUMENT-NAME
  KEYWORDS (*)
  NEW-KEYWORDS-ONLY
  FILE-WITH-ORIGINALS
*
WRITE
  '='  CABINET             /
  '='  PASSWORD            /
  '='  DOCUMENT-NAME       /
  '='  ISN                 /
  '='  NEW-FOLDER          /
  '='  NEW-FILE            /
  '='  NEW-DOCUMENT-NAME   /
  '='  KEYWORDS (*)        /
  '='  NEW-KEYWORDS-ONLY   /
  '='  FILE-WITH-ORIGINALS /
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-FIL11X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

File a document into another folder or file.

This subprogram is the same as Z-FIL11 with the one exception that the parameter ISN uses the format P10.

You can file a document into folder Work or any user-defined folder. You cannot file a document into a system folder such as the Inbasket or Outbasket.

You cannot specify a TRS folder or a TRS document. To file a document into a TRS folder, you must use Z-TRS11.

If you want to rename the document without filing it into another folder or file, you must specify New-document-name without specifing New-folder or New-file.

When you file a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be filed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be filed. Either Document-name or ISN, not both. You must not specify the name of a TRS document.
ISN	P10	R*	X	The ISN of the document to be filed. Input: either ISN or Document-name, not both. You must not specify the ISN of a TRS document. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
New-folder	A15	O		The name of the folder in which the document is to be stored.You must not specify a system folder (except Work) or TRS folder.
New-file	A15	O		The name of a file within the above folder in which the document is to be stored.
New-document-name	A32	O		If specified the document is filed with a new name.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*). When you specify at least one new keyword, all previously defined keywords are deleted. Thus, to retain the previously defined keywords you must specify them once more.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
90	TRS document may not be filed into any other folder

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-165
Z-175
Z-177
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 *
0020 * Example program to file a document into another folder or file.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE          (N2)
0070 1 CABINET              (A8)
0080 1 PASSWORD             (A8)
0090 1 DOCUMENT-NAME        (A32)
0100 1 ISN                  (P10)
0110 1 NEW-FOLDER           (A15)
0120 1 NEW-FILE             (A15)
0130 1 NEW-DOCUMENT-NAME    (A32)
0140 1 KEYWORDS             (A15/1:6)
0150 *
0160 END-DEFINE
0170 *
0180 RESET RETURN-CODE
0190 MOVE 'CABINET'      TO CABINET
0200 MOVE 'PASSWORD'     TO PASSWORD
0210 MOVE 1234567890     TO ISN
0220 MOVE 'Work'         TO NEW-FOLDER
0230 MOVE 'File-work'    TO NEW-FILE
0240 MOVE 'New-Document' TO NEW-DOCUMENT-NAME
0250 MOVE 'Keyword-1'    TO KEYWORDS(1)
0260 MOVE 'Keyword-2'    TO KEYWORDS(2)
0270 *
0280 CALLNAT 'Z-FIL11X'
0290   RETURN-CODE
0300   CABINET
0310   PASSWORD
0320   DOCUMENT-NAME
0330   ISN
0340   NEW-FOLDER
0350   NEW-FILE
0360   NEW-DOCUMENT-NAME
0370   KEYWORDS(*)
0380 *
0390 IF  RETURN-CODE EQ 0
0400   WRITE 'Document was filed'
0410 ELSE
0420   WRITE 'Return code' RETURN-CODE
0430 END-IF
0440 *
0450 END
```

Z-FIL13

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

File a folder (Source-folder) in another folder (Target-folder), or remove a folder (Source-folder) from the folder in which it is stored.

You can specify a folder by either its name or its number. You must not specify both. To get the numbers for the source and target folders, you can either invoke Z-ADD13 or Z-DIS13A prior to this subprogram.

To file the Source-folder in the Target-folder, you must specify either the parameter Target-folder-name or the parameter Target-folder-number. You must not specify both parameters.

To remove the Source-folder from the folder in which it is stored, you must leave the parameters Target-folder-number and Target-folder-name blank. In this case, the Source-folder becomes a separate folder which is not filed within any other folder.

Lower hierarchy is not allowed when filing folders into other folders. For example, folder A is filed in folder B and folder B is filed in folder C. Folder C can be filed in another folder but it cannot be filed in folder A or B.

A TRS folder cannot be used as a source or a target folder.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the folder is to be filed.
Password	A8	R		The password of the above cabinet.
Source-folder-name	A15	R*		The name of the folder to be filed. Either Source-folder-name or Source-folder-number, not both.
Target-folder-name	A15	R*		The name of the folder in which the Source-folder is to be filed. Either Target-folder-name or Target-folder-number, not both.
Source-folder-number	N5	R*		The number of the folder to be filed. Either Source-folder-number or Source-folder-name, not both.
Target-folder-number	N5	R*		The number of the folder in which the Source-folder is to be filed. Either Target-folder-number or Target-folder-name, not both.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
91	Supply either Target-folder-name or Target-folder-number
92	Supply Source-folder-name or Source-folder-number
93	Folder cannot be filed within itself
94	Cyclic folder structures are not allowed

Subprograms

Z-120
Z-122
Z-123
Z-150
Z-190
Z-1200&0

Z-FIL27

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

File a reference document into another folder or file and/or rename it.

You can file a reference document into folder Work or any user-defined folder. You cannot file a reference document into a system folder such as the Inbasket or Outbasket.

If you do not want to rename the reference document, you must leave New-name blank.

If you do not want to file the reference document (i.e. you only want to rename it), you must leave both New-folder and New-file blank.

When you file a reference document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the reference document indicates that it has been read. In this case, END TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the reference document is stored.
Password	A8	R		The password of the above cabinet.
Ref-document-name	A32	R*		The name of the reference document to be filed. Either Ref-document-name or ISN, not both.
ISN	P10	R*	X	The ISN of the reference document to be filed. Either ISN or Ref-document-name, not both.
New-name	A32	O		If specified the reference document is filed with a new name.
New-folder	A15	O		The name of the folder in which the reference document is to be stored. You must not specify a system folder (except Work).
New-file	A15	O		The name of a file within the above folder in which the reference document is to be stored.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
51	Invalid name
52	Object with specified name already exists
53	Requested object does not exist
55	Requested folder/file does not exist
73	Invalid folder/file name
90	Object was already named and filed as specified

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-161
Z-165
Z-175
Z-177
Z-180
Z-190
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 *
0050 1 RETURN-CODE              (N2)
0060 1 CABINET                  (A8)
0070 1 PASSWORD                 (A8)
0080 1 REF-DOCUMENT-NAME        (A32)
0090 1 ISN                      (P10)
0100 1 NEW-NAME                 (A32)
0110 1 NEW-FOLDER               (A15)
0120 1 NEW-FILE                 (A15)
0130 *
0140 END-DEFINE
0150 *
0160 *
0170 INPUT (IP=OFF AD=A'_')
0180         'Cabinet         ' CABINET
0190      /  'Password        ' PASSWORD (AD=N)
0200      /  'Ref. Document   ' REF-DOCUMENT-NAME
0210      // 'New Name        ' NEW-NAME
0220      // 'New Folder      ' NEW-FOLDER
0230      /  '    File        ' NEW-FILE
0240 *
0250 *
0260 IF   REF-DOCUMENT-NAME NE ' '
0270      CALLNAT 'Z-FIL27'
0280           RETURN-CODE
0290           CABINET
0300           PASSWORD
0310           REF-DOCUMENT-NAME
0320           ISN
0330           NEW-NAME
0340           NEW-FOLDER
0350           NEW-FILE
0360 *
0370      IF   RETURN-CODE EQ 0
0380           WRITE 'Reference document was filed and renamed'
0390      ELSE
0400           WRITE 'Reference document cannot be modified' RETURN-CODE
0410      END-IF
0420 END-IF
0430 *
0440 END
```

Z-FILCNF

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Format and file a Cnf document.

If the Cnf document has enclosures, the enclosures must be Cnf or Txt documents.

The document format of the resulting document is Txt. Error messages, warnings and information are inserted as comments into the Txt document.

You cannot format and file a Cnf document which is currently stored in a system folder such as the Inbasket (except Work).

Successful termination of Z-FILCNF always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the Cnf document is stored.
Password	A8	R		The password of the above cabinet.
Cnf-document-name	A32	R*		The name of the Cnf document to be formatted. Either Cnf-document-name or Cnf-ISN, not both.
Cnf-ISN	P10	R*		The ISN of the Cnf document to be formatted. Either Cnf-ISN or Cnf-document-name, not both.
New-document-name	A32	R		The name for the Txt document.
New-folder	A15	O		The folder in which the Txt document is to be stored. You must not specify a system folder (except Work) or TRS folder. Default: Work.
New-file	A15	O		The name of a file within the above folder in which the Txt document is to be stored.
Formatting-profile	A32	O		If left blank, the user's formatting profile is used. If the user has not specified a formatting profile, FPROFILE is used.
Pre-formatting-procedure	A1	O		If marked, the pre-formatting procedures which are linked to the document are activated.
System-variables	A1	O		If marked, the system variables are replaced with the appropriate values.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords for the Txt document. A keyword must not contain an asterisk (*).
Days-until-expiration	N4	O		Defines the number of days the new document is kept before it can be deleted from the system. When you specify a value that is smaller than or equal to 0, the system default is used (see the *Con-nect Administration* documentation for further information on the system defaults).
New-ISN	P10		X	The ISN of the Txt document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder (to file new documents into)
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
59	Requested procedure not found
65	This is not a Con-form document
81	Invalid formatting profile name
87	System address record for system variables not found
91	Supply Cnf-document-name or Cnf-ISN
92	No formatting profile found for specified cabinet
93	Function not available for document in Inbasket, Outbasket or Wastebasket

Subprograms

Z-105
Z-120
Z-122
Z-123
Z-125
Z-135
Z-147
Z-150
Z-163
Z-168
Z-169
Z-175
Z-190
Z-1200&0

Example

```
0010 *
0020 DEFINE DATA
0030 LOCAL
0040 1 RETURN-CODE              (N2)
0050 1 CABINET                  (A8)
0060 1 PASSWORD                 (A8)
0070 1 CNF-DOCUMENT-NAME        (A32)
0080 1 CNF-ISN                  (P10)
0090 1 NEW-DOCUMENT-NAME        (A32)
0100 1 NEW-FOLDER               (A15)
0110 1 NEW-FILE                 (A15)
0120 1 FORMATTING-PROFILE       (A32)
0130 1 PRE-FORMATTING-PROCEDURE (A1)
0140 1 SYSTEM-VARIABLES         (A1)
0150 1 KEYWORDS                 (A15/1:6)
0160 1 DAYS-UNTIL-EXPIRATION    (N4)
0170 1 NEW-ISN                  (P10)
0180 *
0190 END-DEFINE
0200 *
0210 MOVE 'LS' TO CABINET
0220 INPUT 'CNF-DOCUMENT-NAME' CNF-DOCUMENT-NAME /
0230       'NEW-DOCUMENT-NAME' NEW-DOCUMENT-NAME
0240 MOVE 'FORMATTING-PROFILE' TO  FORMATTING-PROFILE
0250 MOVE 30  TO  DAYS-UNTIL-EXPIRATION
0260 MOVE 'X' TO  SYSTEM-VARIABLES
0270 MOVE 'X' TO  PRE-FORMATTING-PROCEDURE
0280 *
0290 CALLNAT 'Z-FILCNF'
0300   RETURN-CODE
0310   CABINET
0320   PASSWORD
0330   CNF-DOCUMENT-NAME
0340   CNF-ISN
0350   NEW-DOCUMENT-NAME
0360   NEW-FOLDER
0370   NEW-FILE
0380   FORMATTING-PROFILE
0390   PRE-FORMATTING-PROCEDURE
0400   SYSTEM-VARIABLES
0410   KEYWORDS (*)
0420   DAYS-UNTIL-EXPIRATION
0430   NEW-ISN
0440 WRITE 'Return code' RETURN-CODE
0450 END
```

Z-FILOB

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

File a user-defined object into another folder or file and/or rename it.

You can file a user-defined object into folder Work or any user-defined folder. You cannot file it into a TRS folder or a system folder such as the Inbasket or Outbasket.

To rename the user-defined object without filing it into another folder or file, you must specify New-object-name without specifing New-folder or New-file.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the user-defined object is stored.
Password	A8	R		The password of the above cabinet.
Object-number	N2	R		The number of the user-defined object.
Object-name	A32	R*		The name of the user-defined object. Either Object-name or ISN, not both.
ISN	P8	R*	X	The ISN of the user-defined object. Input: either ISN or Object-name, not both.
New-folder	A15	O		The name of the folder in which the user-defined object is to be stored. You must not specify a system folder (except Work) or TRS folder.
New-file	A15	O		The name of a file within the above folder in which the user-defined object is to be stored.
New-object-name	A32	O		If specified, the user-defined object is filed with a new name.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
13	Invalid object number
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
55	Requested folder/file does not exist
56	Requested folder is a TRS folder

Subprograms

Z-120
Z-122
Z-123
Z-150
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-FORWD

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Forward mail.

The mail item that you want to forward must be contained in the folder Inbasket, regardless whether it has already been read or not. You can forward a document or a memo.

When you forward a mail item which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the mail item indicates that it has been read. Additionally, the mail item is moved from the file New to the file Opened. In this case, END TRANSACTION is automatically issued.

The parameters Inbasket-ISN, Forward-table and one of the Cover-note parameters are required. The parameter Inbasket-ISN must contain the ISN of the mail item that you are forwarding. To obtain the ISN, you can call, for example, Z-DIS13A prior to calling Z-FORWD.

In the Forward-table, you must specify all addressees to which you want to forward the mail item; you can specify up to 12 addressees.

Different address types can be created using the same name (for example, a user ID may coincide with a distribution list name). If the address type is not specified and addressees with the same name, but different address types are found, the system first tries to send to address type 33 (user ID) and then to 5 (cabinet). It does not check any other address types.

If you specify a combination of last name and first name as addressee, Z-FORWD is able to recognize an expression like "Long,Sonya" as well as "Long,S", "Long,So" or simply "Long" - as long as these expressions are unique.

The parameter Success indicates whether an addressee was found or not. The parameter Forward-option determines how Z-FORWD is to proceed when an addressee cannot be found. When you specify the value 1 for this parameter, the mail item is forwarded to all other addressees that can be found. When you specify any other value or if at least one valid addressee cannot be found, the return code 21 is issued and further addressees are not checked.

The Cover-note* parameters offer several possibilities to create a cover note for the forwarded mail item; you must specify only one of these parameters, not all.

If the parameter Cover-note-name is filled, Z-FORWD searches for a document with this name and copies the main text of this document to the cover note of the mail item.

If the parameter Cover-note-ISN is filled, Z-FORWD searches for an object with this ISN and copies the main text of this object to the cover note of the mail item. It is not required that the object is a document.

If the parameter Cover-note-text is marked, Z-FORWD creates a cover note from the contents of the Natural edit area. The edit area contents are not changed. The example below demontrates how to use this method to specify the text.

Note:
"*/" in the first two positions of a line in the Natural edit area generates a new page in the text.

When the mail item was forwarded, the parameter Outbasket-ISN contains the ISN of the new Outbasket entry.

When a value other than 0 is returned in the parameter Return-code, BACKOUT TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet from which you forward the mail item.
Password	A8	R		The password of the above cabinet.
Inbasket-ISN	P10	R		The ISN of the mail item that is to be forwarded.
Outbasket-ISN	P10		X	The ISN of the new Outbasket entry.
Cover-note-name	A32	O*		If specified, the cover note text is copied from a document with this name.
Cover-note-ISN	P10	O*		If specified, the cover note text is copied from an object with this ISN.
Cover-note-text	A1	O*		If marked, the cover note text is copied from the Natural edit area.
Forward-option	I1	O		0=forward only when all addressees can be found; 1=forward to all found addressees (even when one of the addressees cannot be found). Default: 0
Forward-table (12)				
Addressee	A20	R		The name or user ID of the addressee.
Address-type	N2	O		Must be one of the following: 1=Address (nickname), 4=Bulletin, 5=Cabinet, 10=Distribution, 33=User ID, 70=Last name or 74=External.
Mail-type	A1	O		Must be one of the following: O=original, C=copy, B=blindcopy or P=private. Default: O.
Success	I1		X	00=Addressee was found. 01=Addressee was not found. 02=Addressee is not unique. 03=Invalid Address-type.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	Inbasket ISN was not found
08	Supply name, ISN, or text for cover note, not all
09	Inbasket ISN does not point to correct object
18	API context buffer not available
21	Addressee not found
24	Security violation
53	Requested document does not exist
57	Requested object does not contain a main text
60	Edit area is empty
90	Transport service object could not be created
99	Internal error

Subprograms

Z-MPPDB
Z-MPPLF
Z-RAREC
Z-RASSTX
Z-RCONFM
Z-RINITM
Z-RREC
Z-110
Z-120
Z-122
Z-123
Z-124
Z-145
Z-147
Z-161
Z-165
Z-168
Z-175
Z-177
Z-180
Z-185
Z-191
Z-191A
Z-194

Z-194A
Z-197
Z-197A
Z-200B
Z-201
Z-201B
Z-202
Z-207
Z-208
Z-211
Z-212
Z-213
Z-215
Z-216
Z-221
Z-222
Z-223
Z-224
Z-225
Z-226
Z-241
Z-373
Z-400
Z-401
Z-402
Z-403
Z-404
Z-406
Z-407
Z-719
Z-747
Z-1200&0

Example

```
0010 *
0020 *
0030 *
0040 * This example assumes that the ISN of the Inbasket item,
0050 * the text of the cover note and the selected addressees
0060 * have been checked by a previous main routine
0070 *
0080 DEFINE DATA
0090 *
0100 PARAMETER
0110 *
0120 1 RETURN-CODE                (N2)
0130 1 CABINET                    (A8)
0140 1 PASSWORD                   (A8)
0150 1 INBASKET-ISN               (P10)
0160 1 FORWARD-TABLE              (1:12)
0170   2 ADDRESSEE                (A20)
0180   2 ADDRESS-TYPE             (N2)
0190   2 MAIL-TYPE                (A1)
0200   2 SUCCESS                  (I1)
0210 1 TEXT-LINES                 (A70/1:20)
0220 *
0230 LOCAL
0240 *
0250 1 OUTBASKET-ISN              (P10)
0260 1 FORWARD-OPTION             (I1)
0270 1 COVER-NOTE-NAME            (A32)
0280 1 COVER-NOTE-ISN             (P10)
0290 1 COVER-NOTE-TEXT            (A1)
0300 *
0310 1 INX                        (P3)
0320 *
0330 END-DEFINE
0340 *
0350 * Prepare destination 'SOURCE' and put text lines
0360 * into the cleared Natural edit area
0370 *
0380 DEFINE PRINTER (#OUT=1) OUTPUT 'SOURCE'
0390 FORMAT (#OUT) LS=80 PS=60
0400 SET CONTROL 'Z'
0410 *
0420 FOR  INX EQ 1 TO 20
0430      WRITE (#OUT) NOTITLE TEXT-LINES (INX)
0440 END-FOR
0450 *
0460 * Now forward mail item to all found addressees, incl. ET
0470 *
0480 RESET                 RETURN-CODE
0490 MOVE 1             TO FORWARD-OPTION
0500 MOVE 'X'           TO COVER-NOTE-TEXT
0510 *
0520 CALLNAT 'Z-FORWD'
0530      RETURN-CODE
0540      CABINET
0550      PASSWORD
0560      INBASKET-ISN
0570      OUTBASKET-ISN
0580      COVER-NOTE-NAME
0590      COVER-NOTE-ISN
0600      COVER-NOTE-TEXT
```

```
0610      FORWARD-OPTION
0620      FORWARD-TABLE (*)
0630 *
0640 END
```

Z-GET01

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return information about a nickname for an address at an external node or for an internal Con-nect address.

This subprogram does not apply to a transport service node. To return information about a nickname for a transport service node, you must use Z-GET01T.

The parameters Node-name, Node-parameters, Parameter-length and Post-flag only apply to an external address. They do not apply to an internal address.

This subprogram is generally used with Z-MOD01A to allow the modification of addressee information. The addressee information is then used by Z-MAILA for the distribution of mail.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R	X	The cabinet in which the nickname for which you want to get information is stored. If the nickname is not found in the specified cabinet, but found in cabinet SYSCNT, SYSCNT is returned.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R*	X	The nickname for which you want to get information. Input: either Nickname or ISN; not both.
ISN	P8	R*	X	The ISN of the nickname for which you want to get information. Input: either ISN or Nickname; not both.
Description	A60/1:4		X	The description of the nickname.
Folder-name	A15		X	The folder in which the nickname is stored.
File-name	A15		X	The file within the above folder in which the nickname is stored.
Node-name	A8		X	The name of the external node which has been added by the administrator. Applies only to an external nickname.
Node-parameters	A250		X	The physical address of the external node. Applies only to an external nickname. See **External Communication**.
Parameter-length	N3		X	Depends upon the Node-parameters. Applies only to an external nickname.
Post-flag	A1		X	Applies only to an external nickname. If marked, a window appears and you can enter additional information before the mail is sent. However, the window only appears when you use the online Con-nect. If you use Z-MAILA to send mail, the window does not appear.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
24	Security violation
91	Invalid name
93	The nickname does not exist

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-1200&0

Z-GET01B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return information about a nickname for an address at an external node or for an internal Con-nect address.

This subprogram is similar to Z-GET01 with the exception that it returns the Private-flag for nicknames, the last name and first name of a user at an external node as well as the security levels for the nickname or user.

This subprogram does not apply to a transport service node. To return information about a nickname for a transport service node, you must use Z-GET01T.

The parameters Node-name, Node-parameters, Parameter-length, Post-flag, Last-name and First-name only apply to an external address. They do not apply to an internal address.

This subprogram is generally used with Z-MOD01A to allow the modification of addressee information. The addressee information is then used by Z-MAILA for the distribution of mail.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R	X	To return the address of a nickname, this must be the ID of the cabinet in which the nickname is stored. If the nickname is not found in the specified cabinet, but found in cabinet SYSCNT, SYSCNT is returned.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R*	X	The nickname for which you want to get information. Input: either Nickname or ISN; not both.
ISN	P10	R*	X	The ISN of the nickname for which you want to get information. Input: either ISN or Nickname; not both.
Last-name	A32		X	The last name of a user at an external node.
First-name	A32		X	The first name of a user at an external node.
Description	A60/1:4		X	The description of the nickname.
Folder-name	A15		X	The folder in which the nickname is stored.
File-name	A15		X	The file within the above folder in which the nickname is stored.
Node-name	A8		X	The name of the external node which has been added by the administrator. Applies only to an external nickname.
Node-parameters	A250		X	The physical address of the external node. Applies only to an external nickname. See **External Communication**.
Parameter-length	N3		X	Depends upon the Node-parameters. Applies only to an external nickname.
Post-flag	A1		X	Applies only to an external nickname. If marked, a window appears and you can enter additional information before the mail is sent. However, the window only appears when you use online Con-nect. If you use Z-MAILA to send mail, the window does not appear.
Private-flag	A1		X	If marked, the nickname is a private object.
Security-flags	A4		X	The security levels for Read, Modify, Copy and Print. Values between 0 and 9.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
24	Security violation
91	Invalid nickname
93	The nickname does not exist

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE            (N2)
0040 1 CABINET                (A8)
0050 1 PASSWORD               (A8)
0060 1 NICKNAME               (A20)
0070 1 ISN                    (P10)
0080 1 LAST-NAME              (A32)
0090 1 FIRST-NAME             (A32)
0100 1 DESCRIPTION            (A60/1:4)
0110 1 FOLDER-NAME            (A15)
0120 1 FILE-NAME              (A15)
0130 1 NODE-NAME              (A8)
0140 1 NODE-PARAMETERS        (A250)
0150 1 PARAMETER-LENGTH       (N3)
0160 1 POST-FLAG              (A1)
0170 1 PRIVATE-FLAG           (A1)
0180 1 SECURITY-FLAGS         (A4)
0190 1 REDEFINE SECURITY-FLAGS
0200   2 SECURITY-READ        (A1)
0210   2 SECURITY-MODIFY      (A1)
0220   2 SECURITY-COPY        (A1)
0230   2 SECURITY-PRINT       (A1)
0240 END-DEFINE
0250 *
0260 RESET RETURN-CODE
0270 MOVE 'USER ID'    TO CABINET
0280 MOVE 'PW'         TO PASSWORD
```

```
0290 MOVE 'NICKNAME 1' TO NICKNAME
0300 *
0310 CALLNAT 'Z-GET01B' RETURN-CODE
0320                    CABINET
0330                    PASSWORD
0340                    NICKNAME
0350                    ISN
0360                    LAST-NAME
0370                    FIRST-NAME
0380                    DESCRIPTION(*)
0390                    FOLDER-NAME
0400                    FILE-NAME
0410                    NODE-NAME
0420                    NODE-PARAMETERS
0430                    PARAMETER-LENGTH
0440                    POST-FLAG
0450                    PRIVATE-FLAG
0460                    SECURITY-FLAGS
0470 *
0480 IF RETURN-CODE EQ 0
0490    WRITE 'Return status' ' OK' (AD=OI)
0500 ELSE
0510    WRITE 'Return code' RETURN-CODE
0520 END-IF
0530 *
0540 END
```

Z-GET01C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the work and home address for a cabinet or nickname.

This subprogram is similar to Z-GETADR with the exception that it also returns the last name and first name of a nickname as well as the Private-flag for nicknames.

This subprogram can be used by different types of users. Depending on the type of user, the following functions are allowed:

- **Cabinet Administrator**
  Return the addresses for cabinets (except for cabinet SYSCNT), for nicknames in cabinet SYSCNT, or for nicknames in the cabinet administrator's private cabinet.
- **System Administrator**
  Return the address for cabinet SYSCNT, for nicknames in cabinet SYSCNT, or for nicknames in the system administrator's private cabinet.
- **Any Other User**
  Return the addresses for nicknames in cabinet SYSCNT, or for nicknames in the user's private cabinet.

You can specify one of the following in the parameter Cabinet-name or Nickname:

- to display all addresses alphabetically, you specify an asterisk (*);
- to display the addresses for all cabinets or nicknames that start with specific letters, you specify the letters followed by an asterisk (for example, SAG*);
- to display the address for a specific cabinet or nickname, you specify its name.

This subprogram can be invoked iteratively, until the return code 77 indicates the end of the list.

The following table shows the parameters that are used for the different functions of this subprogram:

Function	Cabinet	Cabinet-name	Nickname
Return the address for a cabinet (except SYSCNT).	User ID of a cabinet administrator.	The name of a specific cabinet; or an asterisk (*); or letter(s) followed by an asterisk (*).	
Return the address for cabinet SYSCNT.	User ID of a system administrator.	The cabinet name "SYSCNT".	
Return a nickname in cabinet SYSCNT.	The cabinet name "SYSCNT".		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).
Return a nickname from the user's private cabinet.	The name of the cabinet in which the nickname is stored.		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R	X	To return the address for a cabinet, this must be the user ID of a cabinet administrator. To return the address of a nickname, this must be the ID of the cabinet in which the nickname is stored. If the nickname is not found in the specified cabinet, but found in cabinet SYSCNT, SYSCNT is returned.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*	X	See the description above. Either Cabinet-name or Nickname, not both.
Nickname	A32	R*	X	See the description above. Either Nickname or Cabinet-name, not both.
Object-ISN	P10		X	The ISN of the cabinet or nickname.
Object-number	N2		X	1=address (nickname), 5=all types of cabinets.
Private-flag	A1		X	If marked, this is a private address.
Last-name	A32		X	Valid only for a private cabinet.
First-name	A32		X	Valid only for a private cabinet.
Initial	A1		X	Valid only for a private cabinet.
Nickname-for	A44		X	Valid only for a nickname. Last name and first name delimited by a comma.

Parameter	Format	In	Out	Remarks
Nickname-status	N1		X	Valid only for a nickname. Validates the structure (e.g. comma) of the parameter Nickname-for. 0=correct, 1=incorrect
Nickname-origin	A8		X	The name of the cabinet which contains the nickname.
Work-title	A32		X	
Work-company	A32		X	
Work-location	A32		X	
Work-address	A60/1:3		X	
Work-city	A32		X	
Work-country	A8		X	
Work-department-name	A32		X	
Work-department-number	A10		X	
Work-phone	A15		X	
Work-phone-country	N2		X	
Work-phone-extension	A10		X	
Work-postal-code	A10		X	
Work-state	A8		X	
Home-address	A60/1:2		X	
Home-city	A32		X	
Home-country	A8		X	
Home-phone	A15		X	
Home-phone-country	N2		X	
Home-postal-code	A10		X	
Home-state	A8		X	
Work-parameter	A83			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
24	Security violation
53	Requested object does not exist
77	End of list
92	Supply either Cabinet-name or Nickname, not both
93	Supply either Cabinet-name or Nickname

Subprograms

Z-120
Z-122
Z-123
Z-710
Z-1200&0

Example

See the example for Z-MOD01C.

Z-GET01D

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the work and home address for a cabinet or nickname, including Cc and Miscellaneous information.

This subprogram is similar to Z-GET01C with the exception that it also returns the Cc and Miscellaneous information. In addition, the parameter list contains new fields and the parameters are sorted according to their appearance in the online screen. Exception: Last-name, First-name, Initial and Sex are sorted differently in the parameter list.

The Cc parameters are only valid for cabinets (object number 5). For nicknames (object number 1) they are always empty.

This subprogram can be used by different types of users. Depending on the type of user, the following functions are allowed:

- **Cabinet Administrator**
  Return the addresses for cabinets (except for cabinet SYSCNT), for nicknames in cabinet SYSCNT, or for nicknames in the cabinet administrator’s private cabinet.

- **System Administrator**
  Return the address for cabinet SYSCNT, for nicknames in cabinet SYSCNT, or for nicknames in the system administrator’s private cabinet.

- **Any Other User**
  Return the addresses for nicknames in cabinet SYSCNT, or for nicknames in the user’s private cabinet.

You can specify one of the following in the parameter Cabinet-name or Nickname:

- to display all addresses alphabetically, you specify an asterisk (*);
- to display the addresses for all cabinets or nicknames that start with specific letters, you specify the letters followed by an asterisk (for example, SAG*);
- to display the address for a specific cabinet or nickname, you specify its name.

This subprogram can be invoked iteratively, until the return code 77 indicates the end of the list.

The following table shows the parameters that are used for the different functions of this subprogram:

Function	**Cabinet**	**Cabinet-name**	**Nickname**
Return the address for a cabinet (except SYSCNT).	User ID of a cabinet administrator.	The name of a specific cabinet; or an asterisk (*); or letter(s) followed by an asterisk (*).	
Return the address for cabinet SYSCNT.	User ID of a system administrator.	The cabinet name "SYSCNT".	
Return a nickname in cabinet SYSCNT.	The cabinet name "SYSCNT".		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).
Return a nickname from the user’s private cabinet.	The name of the cabinet in which the nickname is stored.		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R	X	To return the address for a cabinet, this must be the user ID of a cabinet administrator. To return the address of a nickname, this must be the ID of the cabinet in which the nickname is stored. If the nickname is not found in the specified cabinet, but found in cabinet SYSCNT, SYSCNT is returned.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*	X	See the description above. Either Cabinet-name or Nickname, not both.
Nickname	A32	R*	X	See the description above. Either Nickname or Cabinet-name, not both.
Object-ISN	P10		X	The ISN of the cabinet or nickname.
Object-number	N2		X	1=address (nickname), 5=all types of cabinets.
Private-flag	A1		X	If marked, this is a private address.
Last-name	A32		X	Valid only for a private cabinet or external address.
First-name	A32		X	Valid only for a private cabinet or external address.
Initial	A1		X	Valid only for a private cabinet or external address.
Sex	A10		X	Valid only for a private cabinet or external address.
Nickname-for	A44		X	Valid only for a nickname. Last name and first name delimited by a comma.
Nickname-status	N1		X	Valid only for a nickname. Validates the structure (e.g. comma) of the parameter Nickname-for. 0=correct, 1=incorrect
Nickname-origin	A8		X	The name of the cabinet which contains the nickname.
Work-company	A32		X	
Work-title	A32		X	
Work-department-name	A32		X	
Work-department-number	A10		X	
Work-location	A32		X	
Work-address	A60/1:3		X	
Work-city	A32		X	
Work-state	A8		X	
Work-postal-code	A10		X	

Parameter	Format	In	Out	Remarks
Work-country	A8		X	
Work-phone-1-country	N3		X	
Work-phone-1	A15		X	
Work-phone-1-extension	A5		X	
Work-phone-2-country	N3		X	
Work-phone-2	A15		X	
Work-phone-2-extension	A5		X	
Mobile-phone-country	N3		X	
Mobile-phone	A15		X	
Mobile-phone-extension	A5		X	
Fax-country	N3		X	
Fax	A15		X	
Fax-extension	A5		X	
Cc-flag	A1		X	If marked, Cc has been set.
Cc	A20		X	
Cc-address-type	N2		X	One of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.
Cc-address-source	A1		X	Only if Cc-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Cc-last-first-name	A20		X	Only if Cc-address-type is 1 (external address) or 33 (user ID). Blank if Cc-address-type is 1 and this is not an external address (e.g. nickname for user ID).
Cc-node-name	A8		X	Only if Cc-address-type is 1 (external address).
Cc-status	A1		X	Blank=Cc is valid. X=Cc of given Cc-address-type was not found in Con-nect.
Cc-2-flag	A1		X	If marked, Cc-2 has been set.
Cc-2	A20		X	
Cc-2-address-type	N2		X	One of the following: 1=address (nickname) ,4=bulletin board, 5=cabinet, 33=user ID.
Cc-2-address-source	A1		X	Only if Cc-2-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Cc-2-last-first-name	A20		X	Only if Cc-2-address-type is 1 (external address) or 33 (user ID). Blank if Cc-2-address-type is 1 and this is not an external address (e.g. nickname for user ID).
Cc-2-node-name	A8		X	Only if Cc-2-address-type is 1 (external address).

Parameter	Format	In	Out	Remarks
Cc-2-status	A1		X	Blank=Cc-2 is valid. X=Cc-2 of given Cc-2-address-type was not found in Con-nect.
E-mail	A64		X	
Internet	A64		X	
Home-address	A60/1:2		X	
Home-city	A32		X	
Home-state	A8		X	
Home-postal-code	A10		X	
Home-country	A8		X	
Home-phone-country	N3		X	
Home-phone	A15		X	
Home-phone-extension	A5		X	
Home-fax-country	N3		X	
Home-fax	A15		X	
Home-fax-extension	A5		X	
Home-e-mail	A64		X	
Miscellaneous-header	A12/1:6		X	
Miscellaneous-description	A64/1:6		X	
Work-parameter	A83			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
24	Security violation
53	Requested object does not exist
77	End of list
92	Supply either Cabinet-name or Nickname, not both
93	Supply either Cabinet-name or Nickname

Subprograms

Z-120
Z-122
Z-123
Z-710
Z-723
Z-1200&0

Example

See the example for Z-MOD01D.

Z-GET01E

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the work and home address for a cabinet or nickname, including Cc and Miscellaneous information.

This subprogram is similar to Z-GET01D with the exception that all types of users can use this subprogram. In addition, the parameter list contains new Cc-3 parameters which apply to the mail status message, and the format of the Miscellaneous parameters has been increased to 10 lines.

The parameters are sorted according to their appearance in the online screen (with the exception of the Miscellaneous parameters which appear at the end of the list).

The Cc parameters are only valid for cabinets (object number 5 and 33). For nicknames (object number 1) they are always empty.

The following functions are available: return the addresses for all cabinets, for nicknames in cabinet SYSCNT, or for nicknames in the user's private cabinet.

You can specify one of the following in the parameter Cabinet-name or Nickname:

- to display all addresses alphabetically, you specify an asterisk (*);
- to display the addresses for all cabinets or nicknames that start with specific letters, you specify the letters followed by an asterisk (for example, SAG*);
- to display the address for a specific cabinet or nickname, you specify its name.

This subprogram can be invoked iteratively, until the return code 77 indicates the end of the list.

The following table shows the parameters that are used for the different functions of this subprogram:

Function	Cabinet	Cabinet-name	Nickname
Return the address for a cabinet.	The name of the user's cabinet.	The name of a specific cabinet; or an asterisk (*); or letter(s) followed by an asterisk (*).	
Return a nickname in cabinet SYSCNT.	The cabinet name "SYSCNT".		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).
Return a nickname from the user's private cabinet.	The name of the cabinet in which the nickname is stored.		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R	X	To return the address for a cabinet, this must be the user ID. To return the address of a nickname, this must be the ID of the cabinet in which the nickname is stored. If the nickname is not found in the specified cabinet, but found in cabinet SYSCNT, SYSCNT is returned.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*	X	See the description above. Either Cabinet-name or Nickname, not both.
Nickname	A32	R*	X	See the description above. Either Nickname or Cabinet-name, not both.
Object-ISN	P10		X	The ISN of the cabinet or nickname.
Object-number	N2		X	One of the following: 1=address (nickname), 5=cabinet, 33=user ID (private cabinet).
Private-flag	A1		X	Valid only for a nickname. If marked, this is a private address.
Last-name	A32		X	Valid only for a private cabinet or external address.
First-name	A32		X	Valid only for a private cabinet or external address.
Initial	A1		X	Valid only for a private cabinet or external address.
Sex	A10		X	Valid only for a private cabinet or external address.
Nickname-for	A44		X	Valid only for a nickname. Last name and first name delimited by a comma.

Parameter	Format	In	Out	Remarks
Nickname-status	N1		X	Valid only for a nickname. Validates the structure (e.g. comma) of the parameter Nickname-for. 0=correct, 1=incorrect
Nickname-origin	A8		X	Valid only for a nickname. The name of the cabinet which contains the nickname.
Work-company	A32		X	
Work-title	A32		X	
Work-department-name	A32		X	
Work-department-number	A10		X	
Work-location	A32		X	
Work-address	A60/1:3		X	
Work-city	A32		X	
Work-state	A8		X	
Work-postal-code	A10		X	
Work-country	A8		X	
Work-phone-1-country	N3		X	
Work-phone-1	A15		X	
Work-phone-1-extension	A5		X	
Work-phone-2-country	N3		X	
Work-phone-2	A15		X	
Work-phone-2-extension	A5		X	
Mobile-phone-country	N3		X	
Mobile-phone	A15		X	
Mobile-phone-extension	A5		X	
Fax-country	N3		X	
Fax	A15		X	
Fax-extension	A5		X	
Cc-flag	A1		X	If marked, Cc has been set.
Cc	A20		X	Cc from the user address.
Cc-address-type	N2		X	One of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.
Cc-address-source	A1		X	Only if Cc-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.

Parameter	Format	In	Out	Remarks
Cc-last-first-name	A20		X	Only if Cc-address-type is 1 (external address) or 33 (user ID). Blank if Cc-address-type is 1 and this is not an external address (e.g. nickname for user ID).
Cc-node-name	A8		X	Only if Cc-address-type is 1 (external address).
Cc-status	A1		X	Blank=Cc is valid. X=Cc of given Cc-address-type was not found in Con-nect.
Cc-2-flag	A1		X	If marked, Cc-2 has been set.
Cc-2	A20		X	Cc 2 from the user address.
Cc-2-address-type	N2		X	One of the following: 1=address (nickname) ,4=bulletin board, 5=cabinet, 33=user ID.
Cc-2-address-source	A1		X	Only if Cc-2-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Cc-2-last-first-name	A20		X	Only if Cc-2-address-type is 1 (external address) or 33 (user ID). Blank if Cc-2-address-type is 1 and this is not an external address (e.g. nickname for user ID).
Cc-2-node-name	A8		X	Only if Cc-2-address-type is 1 (external address).
Cc-2-status	A1		X	Blank=Cc-2 is valid. X=Cc-2 of given Cc-2-address-type was not found in Con-nect.
Cc-3-flag	A1		X	If marked, Cc-3 (i.e. Cc from the mail status message) has been set.
Cc-3	A20		X	Cc from the mail status message.
Cc-3-address-type	N2		X	One of the following: 1=address (nickname) ,4=bulletin board, 5=cabinet, 33=user ID.
Cc-3-address-source	A1		X	Only if Cc-3-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Cc-3-last-first-name	A20		X	Only if Cc-3-address-type is 1 (external address) or 33 (user ID). Blank if Cc-3-address-type is 1 and this is not an external address (e.g. nickname for user ID).
Cc-3-node-name	A8		X	Only if Cc-3-address-type is 1 (external address).
Cc-3-status	A1		X	Blank=Cc-3 is valid. X=Cc-3 of given Cc-3-address-type was not found in Con-nect.
E-mail	A64		X	
Internet	A64		X	
Home-address	A60/1:2		X	
Home-city	A32		X	
Home-state	A8		X	

Parameter	Format	In	Out	Remarks
Home-postal-code	A10		X	
Home-country	A8		X	
Home-phone-country	N3		X	
Home-phone	A15		X	
Home-phone-extension	A5		X	
Home-fax-country	N3		X	
Home-fax	A15		X	
Home-fax-extension	A5		X	
Home-e-mail	A64		X	
Miscellaneous-header	A12/1:10		X	
Miscellaneous-description	A64/1:10		X	
Work-parameter	A83			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
24	Security violation
53	Requested object does not exist
77	End of list
92	Supply either Cabinet-name or Nickname, not both
93	Supply either Cabinet-name or Nickname

Subprograms

Z-120
Z-122
Z-123
Z-710
Z-723
Z-1200&0

Example

```
0010 *
0020 * Example program to call Z-GET01E
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE              (N2)
0070 1 CABINET                  (A8)
0080 1 PASSWORD                 (A8)
0090 1 CABINET-NAME             (A8)
0100 1 NICKNAME                 (A32)
0110 1 OBJECT-ISN               (P10)
0120 1 OBJECT-NUMBER            (N2)
0130 1 PRIVATE-FLAG             (A1)
0140 1 LAST-NAME                (A32)
0150 1 FIRST-NAME               (A32)
0160 1 INITIAL                  (A1)
0170 1 SEX                      (A10)
0180 1 NICKNAME-FOR             (A44)
0190 1 NICKNAME-STATUS          (N1)
0200 1 NICKNAME-ORIGIN          (A8)
0210 1 WORK-COMPANY             (A32)
0220 1 WORK-TITLE               (A32)
0230 1 WORK-DEPARTMENT-NAME     (A32)
0240 1 WORK-DEPARTMENT-NUMBER   (A10)
0250 1 WORK-LOCATION            (A32)
0260 1 WORK-ADDRESS             (A60/1:3)
0270 1 WORK-CITY                (A32)
0280 1 WORK-STATE               (A8)
0290 1 WORK-POSTAL-CODE         (A10)
0300 1 WORK-COUNTRY             (A8)
0310 1 WORK-PHONE-1-COUNTRY     (N3)
0320 1 REDEFINE WORK-PHONE-1-COUNTRY
0330   2 WORK-PHONE-1-C-A       (A3)
0340 1 WORK-PHONE-1             (A15)
0350 1 WORK-PHONE-1-EXTENSION   (A5)
0360 1 WORK-PHONE-2-COUNTRY     (N3)
0370 1 REDEFINE WORK-PHONE-2-COUNTRY
0380   2 WORK-PHONE-2-C-A       (A3)
0390 1 WORK-PHONE-2             (A15)
0400 1 WORK-PHONE-2-EXTENSION   (A5)
0410 1 MOBILE-PHONE-COUNTRY     (N3)
0420 1 REDEFINE MOBILE-PHONE-COUNTRY
0430   2 MOBILE-PHONE-C-A       (A3)
0440 1 MOBILE-PHONE             (A15)
0450 1 MOBILE-PHONE-EXTENSION   (A5)
0460 1 FAX-COUNTRY              (N3)
0470 1 REDEFINE FAX-COUNTRY
0480   2 FAX-C-A                (A3)
0490 1 FAX                      (A15)
0500 1 FAX-EXTENSION            (A5)
0510 1 CC-FLAG                  (A1)
0520 1 CC                       (A20)
0530 1 CC-ADDRESS-TYPE          (N2)
0540 1 REDEFINE CC-ADDRESS-TYPE
0550   2 CC-ADDRESS-TYPE-A      (A2)
0560 1 CC-ADDRESS-SOURCE        (A1)
0570 1 CC-LAST-FIRST-NAME       (A20)
0580 1 CC-NODE-NAME             (A8)
0590 1 CC-STATUS                (A1)
0600 1 CC-2-FLAG                (A1)
```

```
0610 1 CC-2                      (A20)
0620 1 CC-2-ADDRESS-TYPE         (N2)
0630 1 CC-2-ADDRESS-SOURCE       (A1)
0640 1 CC-2-LAST-FIRST-NAME      (A20)
0650 1 CC-2-NODE-NAME            (A8)
0660 1 CC-2-STATUS               (A1)
0670 1 CC-3-FLAG                 (A1)
0680 1 CC-3                      (A20)
0690 1 CC-3-ADDRESS-TYPE         (N2)
0700 1 CC-3-ADDRESS-SOURCE       (A1)
0710 1 CC-3-LAST-FIRST-NAME      (A20)
0720 1 CC-3-NODE-NAME            (A8)
0730 1 CC-3-STATUS               (A1)
0740 1 E-MAIL                    (A64)
0750 1 INTERNET                  (A64)
0760 1 HOME-ADDRESS              (A60/1:2)
0770 1 HOME-CITY                 (A32)
0780 1 HOME-STATE                (A8)
0790 1 HOME-POSTAL-CODE          (A10)
0800 1 HOME-COUNTRY              (A8)
0810 1 HOME-PHONE-COUNTRY        (N3)
0820 1 REDEFINE HOME-PHONE-COUNTRY
0830   2 HOME-PHONE-C-A          (A3)
0840 1 HOME-PHONE                (A15)
0850 1 HOME-PHONE-EXTENSION      (A5)
0860 1 HOME-FAX-COUNTRY          (N3)
0870 1 REDEFINE HOME-FAX-COUNTRY
0880   2 HOME-FAX-C-A            (A3)
0890 1 HOME-FAX                  (A15)
0900 1 HOME-FAX-EXTENSION        (A5)
0910 1 HOME-E-MAIL               (A64)
0920 1 MISCELLANEOUS-HEADER      (A12/1:10)
0930 1 MISCELLANEOUS-DESCRIPTION (A64/1:10)
0940 1 WORK-PARAMETER            (A83)
0950 *
0960 END-DEFINE
0970 *
0980 MOVE 'Cabinet'  TO CABINET
0990 MOVE 'Password' TO PASSWORD
1000 MOVE 'Find-Cab' TO CABINET-NAME
1010 *
1020 REPEAT UNTIL RETURN-CODE NE 0
1030 *
1040   CALLNAT 'Z-GET01E' RETURN-CODE
1050      CABINET
1060      PASSWORD
1070      CABINET-NAME
1080      NICKNAME
1090      OBJECT-ISN
1100      OBJECT-NUMBER
1110      PRIVATE-FLAG
1120      LAST-NAME
1130      FIRST-NAME
1140      INITIAL
1150      SEX
1160      NICKNAME-FOR
1170      NICKNAME-STATUS
1180      NICKNAME-ORIGIN
1190      WORK-COMPANY
1200      WORK-TITLE
1210      WORK-DEPARTMENT-NAME
1220      WORK-DEPARTMENT-NUMBER
```

```
1230      WORK-LOCATION
1240      WORK-ADDRESS(*)
1250      WORK-CITY
1260      WORK-STATE
1270      WORK-POSTAL-CODE
1280      WORK-COUNTRY
1290      WORK-PHONE-1-COUNTRY
1300      WORK-PHONE-1
1310      WORK-PHONE-1-EXT
1320      WORK-PHONE-2-COUNTRY
1330      WORK-PHONE2
1340      WORK-PHONE-2-EXT
1350      MOBILE-PHONE-C
1360      MOBILE-PHONE
1370      MOBILE-PHONE-EXT
1380      FAX-C
1390      FAX
1400      FAX-EXT
1410      CC-FLAG
1420      CC
1430      CC-ADDRESS-TYPE
1440      CC-ADDRESS-SOURCE
1450      CC-LAST-FIRST-NAME
1460      CC-NODE-NAME
1470      CC-STATUS
1480      CC-2-FLAG
1490      CC-2
1500      CC-2-ADDRESS-TYPE
1510      CC-2-ADDRESS-SOURCE
1520      CC-2-LAST-FIRST-NAME
1530      CC-2-NODE-NAME
1540      CC-2-STATUS
1550      CC-3-FLAG
1560      CC-3
1570      CC-3-ADDRESS-TYPE
1580      CC-3-ADDRESS-SOURCE
1590      CC-3-LAST-FIRST-NAME
1600      CC-3-NODE-NAME
1610      CC-3-STATUS
1620      E-MAIL
1630      INTERNET
1640      HOME-ADDRESS(*)
1650      HOME-CITY
1660      HOME-STATE
1670      HOME-POSTAL-CODE
1680      HOME-COUNTRY
1690      HOME-PHONE-C
1700      HOME-PHONE
1710      HOME-PHONE-EXT
1720      HOME-FAX-C
1730      HOME-FAX
1740      HOME-FAX-EXT
1750      HOME-E-MAIL
1760      MISCELLANEOUS-HEADER(*)
1770      MISCELLANEOUS-DESCRIPTION(*)
1780      WORK-PARAMETER
1790 *
1800   IF RETURN-CODE EQ 0  OR  RETURN-CODE EQ 77
1810     NEWPAGE
1820     WRITE NOTITLE NOHDR (AD=IOW' ')
1830     25T 'W o r k    A d d r e s s' /
1840      4T 'Last Name' LAST-NAME 2X 'Initial' INITIAL 7X 'Sex' SEX /
```

```
1850      3T ’First Name’ FIRST-NAME /
1860      6T ’Company’ WORK-COMPANY 2X ’Title’ WORK-TITLE (AL=24) /
1870      3T ’Department’ WORK-DEPARTMENT-NAME ’Number’ WORK-DEPARTMENT-NUMBER /
1880      5T ’Location’ WORK-LOCATION /
1890      6T ’Address’ WORK-ADDRESS(1) /
1900      9T ’City’ WORK-CITY WORK-STATE /
1910         ’Postal Code’ WORK-POSTAL-CODE ’Country’ WORK-COUNTRY /
1920      6T ’Phone 1’ WORK-PHONE-1-C-A WORK-PHONE-1 WORK-PHONE-1-EXTENSION6X
1930         ’Phone 2’ WORK-PHONE-2-C-A WORK-PHONE2 WORK-PHONE-2-EXTENSION/
1940      7T ’Mobile’ MOBILE-PHONE-C-A MOBILE-PHONE MOBILE-PHONE-EXTENSION10X
1950         ’Fax’ FAX-C-A FAX FAX-EXTENSION/
1960      3T ’Set’ CC-FLAG ’Cc  ’ CC ’ Type’ CC-ADDRESS-TYPE
1970         ’Node’ CC-NODE-NAME ’  Source’ CC-ADDRESS-SOURCE /
1980      7T ’E-mail’ E-MAIL /
1990     25T ’H o m e    A d d r e s s’ /
2000         ’Home Address’ HOME-ADDRESS(1) /
2010      9T ’City’ HOME-CITY HOME-STATE /
2020      2T ’Postal Code’ HOME-POSTAL-CODE ’Country’ HOME-COUNTRY /
2030      8T ’Phone’ HOME-PHONE-C-A HOME-PHONE HOME-PHONE-EXTENSION/
2040     10T ’Fax’ HOME-FAX-C-A HOME-FAX HOME-FAX-EXTENSION/
2050      7T ’E-mail’ HOME-E-MAIL /
2060     25T ’M i s c e l l a n e o u s’ /
2070          MISCELLANEOUS-HEADER(1) MISCELLANEOUS-DESCRIPTION(1) /
2080          MISCELLANEOUS-HEADER(2) MISCELLANEOUS-DESCRIPTION(2)
2090   ELSE
2100     WRITE ’Return code’ RETURN-CODE
2110   END-IF
2120 END-REPEAT
2130 END
```

Z-GET01T

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return information about a nickname for an address at an external node or for an internal Con-nect address. This subprogram also applies to an external node which uses the transport service.

This subprogram is generally used with Z-MOD01T to allow the modification of addressee information. The addressee information is then used by Z-MAILA for the distribution of mail.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R	X	The cabinet in which the nickname for which you want to get information is stored. If the nickname is not found in the specified cabinet, but found in cabinet SYSCNT, SYSCNT is returned.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R*		The nickname for which you want to get information. Either Nickname or ISN; not both.
ISN	P8	R*	X	The ISN of the nickname for which you want to get information. Input: either ISN or Nickname; not both.
Last-name	A32		X	The last name of a user at the transport service node.
First-name	A32		X	The first name of a user at the transport service node.
Description	A60/1:4		X	The description of the nickname.
Folder-name	A15		X	The folder in which the nickname is stored.
File-name	A15		X	The file within the above folder in which the nickname is stored.
Node-name	A8		X	The name of the transport service node which has been added by the administrator.
Node-service	A1		X	S=spool file, T=transport service. Blank, if the nickname applies to an internal Con-nect address.
Node-parameters	A250/1:7		X	The physical address of the transport service node. See **External Communication**.
Post-flag	A1		X	If marked, a window appears and you can enter additional information before the mail is sent. However, the window only appears when you use the online Con-nect. If you use Z-MAILA to send mail, the window does not appear.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
24	Security violation
91	Invalid addressee
93	The nickname does not exist

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-191
Z-1200&0

Z-GET03B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return information about an appointment or meeting.

This subprogram returns the next appointment or meeting beginning with the date and time entered in the Current-date and Current-start parameters. On the following days, all calendar entries which exceed one day are returned starting with midnight (and not with the time you specified for the first day).

The following information pertains to the returned list. For each calendar entry, the parameters Current-date, Current-start and Current-end refer to the start and end time of each day. If a calendar entry extends past midnight, Con-nect automatically splits the entry for each day.

For a private calendar entry not belonging to the invoking cabinet, only the date and time are returned. The private entry has an asterisk (*) in the subject line; description and location are not returned.

The timezone is always GMT. Other timezones are not considered.

Provided that the Work-parameter is not corrupted by the calling program, this subprogram can be invoked iteratively to return successive appointments or meetings.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the appointment or meeting for which you want to return information.
Password	A8	R		The password of the above cabinet.
Current-date	A8	R	X	Format yyyymmdd. See the description above.
Current-start	A8	O	X	Format hhmm. See the description above.
Current-end	A8		X	The end time of the currently returned appointment or meeting. Format hhmm.
Subject	A20		X	The subject of the appointment or meeting.
Description	A60/1:3		X	The description of the appointment or meeting.
Location	A60		X	The location of the appointment or meeting.
Object-number	N2		X	3=appointment, 16=meeting.
Range-type	A1		X	1=the whole time range, 2=separate daily entries, 3=only a starting time.
No-occupation	A1		X	Blank=the calendar entry occupies time; left parenthesis=the calendar entry does not occupy time.
Daily-entries-status	A1		X	*=First day, >=continued from the previous day, <=last day.
Work-parameter	A40			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
41	Invalid start-date
42	Invalid start-time
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-160
Z-1200&0

Z-GET04

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return an object which is contained in a specific bulletin board.

This subprogram requires that you specify the ISN of the wanted object. To get the ISN, you must first invoke Z-DIS04A.

When you leave the parameter All-objects blank, an object other than a document is ignored. In this case, the document text, including cover notes and enclosed documents, is returned in the parameter Text-array.

When you mark the parameter All-objects, an object other than a document (for example, a reference document or application) is also returned. In this case, only the cover note of the object is returned in the parameter Text-array.

This subprogram should be invoked iteratively until the return code 77 indicates the end of text. The type of text which is currently being processed is returned by the parameter Text-type.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
ISN	P8	R		The ISN of the object to be returned. Z-DIS04A returns the ISN for each object on a specific bulletin board.
All-objects	A1	O		If blank, only documents are returned. If marked, all objects are returned.
Subject	A60		X	The subject of the object which has been sent to the bulletin board.
Document-format	A1		X	Any value other than 0 to 9 indicates that the object is not a document. See **Document Formats**.
Text-type	A1		X	C=cover note, T=document text, E=enclosed document.
Text-type-total	P3		X	The total number of cover notes and enclosures. 0 for type T.
Text-type-current	P3		X	The sequence number of the currently processed cover note or enclosure. 0 for type T.
Text-array	A251/1:20		X	The text of the document, cover note or enclosure.
Work-parameter-1	A240			For internal use. See **The Work Parameter**.
Work-parameter-2	A79			For internal use. See **The Work Parameter**.

Return Codes

00	Success
04	ISN was not found
09	ISN does not point to correct object
77	End of object (cover note, document, enclosures)
90	ISN does not point to bulletin board object

Subprograms

None

Z-GET04X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return an object which is contained in a specific bulletin board.

This subprogram is the same as Z-GET04 with the one exception that the parameter ISN uses the format P10.

This subprogram requires that you specify the ISN of the wanted object. To get the ISN, you must first invoke Z-DIS04X.

When you leave the parameter All-objects blank, an object other than a document is ignored. In this case, the document text, including cover notes and enclosed documents, is returned in the parameter Text-array.

When you mark the parameter All-objects, an object other than a document (for example, a reference document or application) is also returned. In this case, only the cover note of the object is returned in the parameter Text-array.

This subprogram should be invoked iteratively until the return code 77 indicates the end of text. The type of text which is currently being processed is returned by the parameter Text-type.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
ISN	P10	R		The ISN of the object to be returned. Z-DIS04X returns the ISN for each object on a specific bulletin board.
All-objects	A1	O		If blank, only documents are returned. If marked, all objects are returned.
Subject	A60		X	The subject of the object which has been sent to the bulletin board.
Document-format	A1		X	Any value other than 0 to 9 indicates that the object is not a document. See **Document Formats**.
Text-type	A1		X	C=cover note, T=document text, E=enclosed document.
Text-type-total	P3		X	The total number of cover notes and enclosures. 0 for type T.
Text-type-current	P3		X	The sequence number of the currently processed cover note or enclosure. 0 for type T.
Text-array	A251/1:20		X	The text of the document, cover note or enclosure.
Work-parameter-1	A240			For internal use. See **The Work Parameter**.
Work-parameter-2	A79			For internal use. See **The Work Parameter**.

Return Codes

00	Success
04	ISN was not found
09	ISN does not point to correct object
77	End of object (cover note, document, enclosures)
90	ISN does not point to bulletin board object

Subprograms

None

Example

```
0010 *
0020 * Example program to return an object which is contained in a specific
0030 * bulletin board.
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE           (N2)
0080 1 ISN                   (P10)
0090 1 ALL-OBJECTS           (A1)
0100 1 SUBJECT               (A60)
0110 1 DOCUMENT-FORMAT       (A1)
0120 1 TEXT-TYPE             (A1)
0130 1 TEXT-TYPE-TOTAL       (P3)
0140 1 TEXT-TYPE-CURRENT     (P3)
0150 1 TEXT-ARRAY            (A251/1:20)
0160 1 WORK-PARAMETER-1      (A240)
0170 1 WORK-PARAMETER-2      (A79)
0180 1 #INDEX                (N2)
0190 *
0200 END-DEFINE
0210 *
0220 RESET RETURN-CODE
0230 MOVE 1234567890 TO ISN
0240 MOVE 'X'        TO ALL-OBJECTS
0250 *
0260 REPEAT UNTIL RETURN-CODE NE 0
0270 *
0280   CALLNAT 'Z-GET04X'
0290     RETURN-CODE
0300     ISN
0310     ALL-OBJECTS
0320     SUBJECT
0330     DOCUMENT-FORMAT
0340     TEXT-TYPE
0350     TEXT-TYPE-TOTAL
0360     TEXT-TYPE-CURRENT
0370     TEXT-ARRAY(*)
0380     WORK-PARAMETER-1
0390     WORK-PARAMETER-2
0400 *
0410   WRITE  NOTITLE (SG=OFF ZP=OFF AD=L)
0420     'Subject' SUBJECT /
0430     'Document format' DOCUMENT-FORMAT 2X
0440     'Text type' TEXT-TYPE 2X
0450     'Text-type-total' TEXT-TYPE-TOTAL 2X
0460     'Text-type-current' TEXT-TYPE-CURRENT /
0470 *
0480   FOR #INDEX 1 TO 20
0490     WRITE  NOTITLE (SG=OFF ZP=OFF AD=L) TEXT-ARRAY(#INDEX) (AL=79)
0500   END-FOR
0510 *
0520 END-REPEAT
0530 *
0540 WRITE  'Return code ' RETURN-CODE
0550 *
0560 END
```

Z-GET06A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return information about an appointment, meeting, reminder or todo.

This subprogram returns the next appointment, meeting, reminder or todo beginning with the date and time entered in the Start-date and Start-time parameters. On the following days, all calendar entries which exceed one day are returned starting with midnight (and not with the time you specified for the first day).

The parameters Start-date, Start-time, End-date and End-time refer to the entire entry as specified online in the "Add" screen (for example, a meeting which starts at 10:00 on May 5 and ends at 16:00 on May 8).

The returned list is similar to the list which is returned with Z-GET03B. However, the list returned with Z-GET06A contains additional information: each occurrence of an entry in the list contains the start and end date/time of the whole entry.

In addition to the parameters returned by Z-GET03B, the following parameters are also returned for an appointment or meeting: Agenda, Keywords, Private-flag, Security-flags, Start-date, Start-time, End-date and End-time.

For a reminder or todo only the first 3 lines of the description are returned (reminders and todos do not have the parameters Location, Agenda and Keywords).

For each calendar entry, the parameters Current-date, Current-start and Current-end refer to the start and end time of each day. If a calendar entry extends past midnight, Con-nect automatically splits the entry for each day.

For a private calendar entry not belonging to the invoking cabinet, only the date and time are returned. The private entry has an asterisk (*) in the subject line; description, location, agenda and keywords are not returned.

The timezone is always GMT. Other timezones are not considered.

Provided that the Work-parameter is not corrupted by the calling program, this subprogram can be invoked iteratively to return successive appointments, meetings, reminders and todos.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the calendar entry for which you want to return information.
Password	A8	R		The password of the above cabinet.
Start-date	A8	R	X	Format yyyymmdd. See the description above.
Start-time	A8	O	X	Format hhmm. See the description above.
End-date	A8		X	Format yyyymmdd. See the description above.
End-time	A8		X	Format hhmm. See the description above.
Subject	A20		X	The subject of the calendar entry.
Description	A60/1:3		X	The description of the calendar entry.
Location	A60		X	The location of the appointment or meeting. Does not apply for a reminder or todo.
Agenda	A32		X	Only applies for a meeting. The name of a document which has been linked to the meeting.
Keywords	A15/1:6		X	Only applies for an appointment or meeting. Keywords are helpful later when you search for an object.
Private-flag	A1		X	If marked, the appointment or meeting is a private object. Does not apply for a reminder or todo.
Security-flags	A1/1:4		X	Only applies for an appointment or meeting. The security levels for Read, Modify, Copy and Print. Values 0 to 9.
Object-number	N2		X	3=appointment, 16=meeting, 28=reminder, 43=todo.
Range-type	A1		X	1=the whole time range, 2=separate daily entries, 3=only a starting time. Each reminder and todo has the Range-type 3.
No-occupation	A1		X	Blank=the calendar entry occupies time; left parenthesis=the calendar entry does not occupy time. A reminder or todo does not occupy time.
Current-date	A8		X	Format yyyymmdd. See the description above.
Current-start	A8		X	Format hhmm. See the description above.
Current-end	A8		X	Format hhmm. See the description above.
Work-parameter	A40			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
41	Invalid start-date
42	Invalid start-time
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-160
Z-1200&0

Z-GET06B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return information about an appointment, meeting, reminder or todo.

This subprogram is similar to Z-GET06A with the exception that it also returns the ISN of the calendar entry and the number of attached notes. In the case of calendar entries that occur over a period of days, you can specify that only the first record be returned. To return information about the attached notes, invoke Z-GET06C.

This subprogram returns the next appointment, meeting, reminder or todo beginning with the date and time entered in the Start-date and Start-time parameters. On the following days, all calendar entries which exceed one day are returned starting with midnight (and not with the time you specified for the first day).

The parameters Start-date, Start-time, End-date and End-time refer to the entire entry as specified online in the "Add" screen (for example, a meeting which starts at 10:00 on May 5 and ends at 16:00 on May 8).

The returned list is similar to the list which is returned with Z-GET03B. However, the list returned with Z-GET06B contains additional information: each occurrence of an entry in the list contains the start and end date/time of the whole entry.

In addition to the parameters returned by Z-GET03B, the following parameters are also returned for an appointment or meeting: Agenda, Keywords, Private-flag, Security-flags, Start-date, Start-time, End-date and End-time.

For a reminder or todo only the first 3 lines of the description are returned. The parameters Location, Agenda and Keywords are not required for reminders and todos.

For each calendar entry, the parameters Current-date, Current-start and Current-end refer to the start and end time of each day. If a calendar entry extends past midnight, Con-nect automatically splits the entry for each day.

For a private calendar entry not belonging to the specified cabinet, only the date and time are returned. The private entry has an asterisk (*) in the subject line; description, location, agenda and keywords are not returned.

The timezone is always GMT. Other timezones are not considered.

Provided that the Work-parameter is not corrupted by the calling program, this subprogram can be invoked iteratively to return successive appointments, meetings, reminders and todos.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the calendar entry for which you want to return information.
Password	A8	R		The password of the above cabinet.
Start-date	A8	R	X	Format yyyymmdd. See the description above.
Start-time	A8	O	X	Format hhmm. See the description above.
End-date	A8		X	Format yyyymmdd. See the description above.
End-time	A8		X	Format hhmm. See the description above.
Subject	A20		X	The subject of the calendar entry.
Description	A60/1:3		X	The description of the calendar entry.
Location	A60		X	The location of the appointment or meeting. Does not apply to a reminder or todo.
Agenda	A32		X	Only applies to a meeting. The name of a document which has been linked to the meeting.
Keywords	A15/1:6		X	Only applies to an appointment or meeting. Keywords are helpful later when you search for an object.
Private-flag	A1		X	If marked, the appointment or meeting is a private object. Does not apply to a reminder or todo.
Security-flags	A1/1:4		X	Only applies to an appointment or meeting. The security levels for Read, Modify, Copy and Print. Values 0 to 9.
Object-number	N2		X	3=appointment, 16=meeting, 28=reminder, 43=todo.
Range-type	A1		X	1=the entire time range, 2=separate daily entries, 3=only a starting time. Each reminder and todo has the Range-type 3.
No-occupation	A1		X	Blank=the calendar entry occupies time; left parenthesis=the calendar entry does not occupy time. A reminder or todo does not occupy time.
Current-date	A8		X	Format yyyymmdd. See the description above.
Current-start	A8		X	Format hhmm. See the description above.
Current-end	A8		X	Format hhmm. See the description above.
Calendar-ISN	P10		X	The ISN of the calendar entry.

Parameter	Format	In	Out	Remarks
Only-first	A1	O		If marked, only the first record and corresponding ISN of an appointment or meeting which exceeds one day is returned. If the first record begins before Start-date, it is not returned.
Notes	N2		X	The number of notes attached to an appointment or meeting.
Work-parameter	A40			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
41	Invalid start-date
42	Invalid start-time
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-160
Z-711
Z-1200&0

Example

```
0010 *
0020 *  Return information about appointment, meeting
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE      (N2)
0070 1 CABINET          (A8)
0080 1 PASSWORD         (A8)
0090 1 START-DATE       (A8)
0100 1 START-TIME       (A8)
0110 1 END-DATE         (A8)
0120 1 END-TIME         (A8)
0130 1 SUBJECT          (A20)
0140 1 DESCRIPTION      (A60/1:3)
0150 1 LOCATION         (A60)
0160 1 AGENDA           (A32)
0170 1 KEYWORDS         (A15/1:6)
0180 1 PRIVATE-FLAG     (A1)
0190 1 SECURITY-FLAGS   (A1/1:4)
0200 1 OBJECT-NUMBER    (N2)
0210 1 RANGE-TYPE       (A1)
```

```
0220 1 NO-OCCUPATION    (A1)
0230 1 CURRENT-DATE     (A8)
0240 1 CURRENT-START    (A8)
0250 1 CURRENT-END      (A8)
0260 1 CALENDAR-ISN     (P10) /* ISN  of record is returned
0270 1 ONLY-FIRST       (A1)  /* Only the first record of a multiple-day
0280 *                           calendar item is returned
0290 1 NOTES            (N2)  /* Number of attached notes returned
0300 1 WORK-PARAMETER   (A40)
0310 *
0320 END-DEFINE
0330 *
0340 RESET RETURN-CODE
0350 MOVE 'CABINET ' TO CABINET
0360 MOVE 'PASSWORD' TO PASSWORD
0370 MOVE '19971231' TO START-DATE
0380 MOVE '2000'     TO START-TIME
0390 MOVE 'X'        TO ONLY-FIRST
0400 *
0410 REPEAT UNTIL RETURN-CODE NE 0
0420 *
0430   CALLNAT 'Z-GET06B' RETURN-CODE
0440     CABINET
0450     PASSWORD
0460     START-DATE
0470     START-TIME
0480     END-DATE
0490     END-TIME
0500     SUBJECT
0510     DESCRIPTION(*)
0520     LOCATION
0530     AGENDA
0540     KEYWORDS(*)
0550     PRIVATE-FLAG
0560     SECURITY-FLAGS(*)
0570     OBJECT-NUMBER
0580     RANGE-TYPE
0590     NO-OCCUPATION
0600     CURRENT-DATE
0610     CURRENT-START
0620     CURRENT-END
0630     CALENDAR-ISN
0640     ONLY-FIRST
0650     NOTES
0660     WORK-PARAMETER
0670 *
0680   IF CALENDAR-ISN NE 0
0690     NEWPAGE
0700     WRITE
0710       '=' CABINET /
0720       '=' PASSWORD /
0730       '=' START-DATE
0740       '=' START-TIME /
0750       '=' END-DATE
0760       '=' END-TIME /
0770       '=' SUBJECT /
0780       '=' DESCRIPTION(1) /
0790       '=' LOCATION /
0800       '=' AGENDA /
0810       '=' KEYWORDS(1:3) /
0820       '=' KEYWORDS(4:6) /
0830       '=' PRIVATE-FLAG
```

```
0840       '=' SECURITY-FLAGS(*) /
0850       '=' OBJECT-NUMBER /
0860       '=' RANGE-TYPE /
0870       '=' NO-OCCUPATION /
0880       '=' CURRENT-DATE /
0890       '=' CURRENT-START /
0900       '=' CURRENT-END /
0910       '=' CALENDAR-ISN /
0920       '=' ONLY-FIRST  /
0930       '=' NOTES  /
0940   END-IF
0950 END-REPEAT
0960 WRITE 'Return code ' RETURN-CODE
0970 END
```

Z-GET06C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return information about notes that are attached to an appointment or meeting.

To get the ISN of the appointment or meeting, you can invoke Z-GET06B prior to this subprogram.

Before the first call to this subprogram, you must reset the Work-parameter.

When you specify a sequence number for the parameter Note-current, the initial call to this subprogram begins reading the attached notes starting with that sequence number.

Each call to Z-GET06C returns information about one attached note. This subprogram should be called iteratively until the return code is 77. Return code 77 indicates that all attached notes have been read.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the appointment or meeting for which you want information returned.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R		The ISN of the appointment or meeting which contains the attached notes.
Note-subject	A32		X	The subject of the attached note.
Note-ISN	P10		X	The ISN of the attached note.
Notes-total	P3		X	The total number of attached notes.
Note-current	P3	O	X	Input: If specified, processing starts with that number. Output: The sequence number of the attached note currently being processed.
Text-array	A251/1:20		X	The text of the attached note.
Lines-total	N2		X	The number of all lines of the current record, including all blank lines at the end of the text.
Last-text-line	N2		X	The number of the last text line, not considering blank lines at the end of the text.
Work-parameter	A217			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
53	Requested object does not exist
77	End of object or Note-current does not exist

Subprograms

Z-120
Z-122
Z-123
Z-711
Z-120&2

Example

```
0010 *
0020 * Example program to return a calendar item
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1  RETURN-CODE      (N2)
0070 1  CABINET          (A8)
0080 1  PASSWORD         (A8)
0090 1  CALENDAR-ISN     (P10)
0100 1  NOTE-SUBJECT     (A32)
0110 1  NOTE-ISN         (P10)
0120 1  NOTES-TOTAL      (P3)
0130 1  NOTE-CURRENT     (P3)
0140 1  TEXT-ARRAY       (A251/1:20)
0150 1  LINES-TOTAL      (N2)
0160 1  LAST-TEXT-LINE   (N2)
0170 1  WORK-PARAMETER   (A217)
0180 *
0190 END-DEFINE
0200 *
0210 RESET RETURN-CODE WORK-PARAMETER
0220 MOVE 'CABINET ' TO CABINET
0230 MOVE 'PASSWORD' TO PASSWORD
0240 MOVE  51250     TO CALENDAR-ISN/* ISN can be returned using Z-GET06B
0250 *                                (see example for Z-DETACH)
0260 REPEAT UNTIL RETURN-CODE NE 0
0270 *
0280   CALLNAT 'Z-GET06C'
0290     RETURN-CODE
0300     CABINET
0310     PASSWORD
0320     CALENDAR-ISN
0330     NOTE-SUBJECT
0340     NOTE-ISN
0350     NOTES-TOTAL
0360     NOTES-CURRENT
0370     TEXT-ARRAY(*)
0380     LINES-TOTAL
0390     LAST-TEXT-LINE
0400     WORK-PARAMETER
0410 *
0420   IF NOTE-ISN NE 0
0430     NEWPAGE
0440     WRITE
0450       '='   CABINET         /
0460       '='   PASSWORD        //
0470       '='   CALENDAR-ISN    /
0480       '='   NOTES-TOTAL     /
0490       '='   NOTES-CURRENT   //
0500       '='   NOTE-SUBJECT    /
0510       '='   NOTE-ISN        //
0520       '='   LINES-TOTAL     /
0530       '='   LAST-TEXT-LINE
0540     IF LINES-TOTAL GT 0
0550       WRITE
0560         / 'TEXT-ARRAY(1)          '   TEXT-ARRAY(1)(AL=30)
0570         / 'TEXT-ARRAY(2)          '   TEXT-ARRAY(2)(AL=30)
0580         / 'TEXT-ARRAY(3)          '   TEXT-ARRAY(3)(AL=30)
0590         / 'TEXT-ARRAY(4)          '   TEXT-ARRAY(4)(AL=30)
0600         / 'TEXT-ARRAY(LINES-TOTAL)'   TEXT-ARRAY(LINES-TOTAL)(AL=30)
```

```
0610     END-IF
0620   END-IF
0630 END-REPEAT
0640 WRITE / 'Return code ' RETURN-CODE
0650 END
```

Z-GET06D

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the history of a meeting.

This subprogram should be called iteratively until the return code is 77. Return code 77 indicates that the history of the meeting has been read.

Provided that the Work-parameter is not corrupted by the calling program, this subprogram can be invoked iteratively to return successive meeting versions (history).

This subprogram requires that you specify the ISN of the desired meeting. To get the ISN, invoke Z-GET06B prior to this subprogram.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the meeting for which you want to return information.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R		The ISN of the meeting.
Version	N3		X	The meeting version.
Start-date	A8		X	Format yyyymmdd.
Start-time	A8		X	Format hhmm.
End-date	A8		X	Format yyyymmdd.
End-time	A8		X	Format hhmm.
Subject	A20		X	The subject of the meeting.
Description	A60/1:3		X	The description of the meeting.
Location	A60		X	The location of the meeting.
Agenda	A32		X	The name of a document which has been linked to the meeting.
Private-flag	A1		X	If marked, the meeting is a private object.
Security-flags	A1/1:4		X	The security levels for Read, Modify, Copy and Print. Values 0 to 9.
Range-type	A1		X	1=the whole time range, 2=separate daily entries, 3=only a starting time.
No-occupation	A1		X	Blank=the meeting occupies time; left parenthesis=the meeting does not occupy time.
History-ISN	P10		X	The ISN of the meeting version.
Work-parameter	A40			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-711
Z-1200&0

Example

```
0010 *
0020 * Return information about the history of a meeting
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE    (N2)
0070 1 CABINET        (A8)
0080 1 PASSWORD       (A8)
0090 1 CALENDAR-ISN   (P10)
0100 1 VERSION        (N3)
0110 1 START-DATE     (A8)
0120 1 START-TIME     (A8)
0130 1 END-DATE       (A8)
0140 1 END-TIME       (A8)
0150 1 SUBJECT        (A20)
0160 1 DESCRIPTION    (A60/1:3)
0170 1 LOCATION       (A60)
0180 1 AGENDA         (A32)
0190 1 PRIVATE-FLAG   (A1)
0200 1 SECURITY-FLAGS (A1/1:4)
0210 1 RANGE-TYPE     (A1)
0220 1 NO-OCCUPATION  (A1)
0230 1 HISTORY-ISN    (P10)
0240 1 WORK-PARAMETER (A40)
0250 END-DEFINE
0260 *
0270 MOVE 'LS'   TO CABINET
0280 MOVE 'LS'   TO PASSWORD
0290 MOVE 84847  TO CALENDAR-ISN
0300 *
0310 RESET RETURN-CODE WORK-PARAMETER
0320  REPEAT UNTIL RETURN-CODE NE 0
0330   CALLNAT 'Z-GET06D'
```

```
0340    RETURN-CODE
0350    CABINET
0360    PASSWORD
0370    CALENDAR-ISN
0380    VERSION
0390    START-DATE
0400    START-TIME
0410    END-DATE
0420    END-TIME
0430    SUBJECT
0440    DESCRIPTION(*)
0450    LOCATION
0460    AGENDA
0470    PRIVATE-FLAG
0480    SECURITY-FLAGS(*)
0490    RANGE-TYPE
0500    NO-OCCUPATION
0510    HISTORY-ISN
0520    WORK-PARAMETER
0530 *
0540   IF RETURN-CODE EQ 0
0550    NEWPAGE
0560    WRITE
0570     '=' CABINET /
0580     '=' PASSWORD /
0590     '=' CALENDAR-ISN /
0600     '=' VERSION /
0610     '=' START-DATE /
0620     '=' START-TIME /
0630     '=' END-DATE /
0640     '=' END-TIME /
0650     '=' SUBJECT /
0660     '=' DESCRIPTION(1) /
0670     '=' DESCRIPTION(2) /
0680     '=' DESCRIPTION(3) /
0690     '=' LOCATION /
0700     '=' AGENDA /
0710     '=' PRIVATE-FLAG /
0720     '=' SECURITY-FLAGS(*) /
0730     '=' RANGE-TYPE /
0740     '=' NO-OCCUPATION /
0750     '=' HISTORY-ISN /
0760   END-IF
0770  END-REPEAT
0780 WRITE 'Return code' RETURN-CODE
0790 END
```

Z-GET06E

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the meeting version and, if applicable, either the update or cancelation message.

When a new meeting version is created (version 2 or above) and the inivations are sent, an update message is also sent to all attendees.

When the originator cancels the meeting, a cancelation message is sent to all attendees in the following cases:

- when the invitation to the meeting has already been read by one of the attendees (applies only to meeting version 1), or
- when an attendee located at another Con-nect node was invited (applies only to meeting version 1), or
- when the meeting version is 2 or above.

The following only applies to meeting version 1: when none of the attendees has read the invitation, a cancelation message is not sent. In this case, all invitations in the Inbaskets of the attendees are erased. However, when an attendee located at another Con-nect node has also been invited, the invitations are not erased.

This subprogram requires that you specify the ISN of the wanted meeting.

To get the ISN of the current meeting version or of the cancelation notification, invoke Z-GET06B prior to this subprogram.

To get the ISN of a previous meeting version (meeting history), invoke Z-GET06D prior to this subprogram.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the meeting for which you want information returned.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10		X	The ISN of the meeting.
Meeting-version	N4		X	Version number of current or previous meeting. 0=cancelation notification is returned.
Message-type	A1		X	0=no message attached to meeting. 1=update message. 2=cancelation message.
Text-array	A37/1:11		X	The text of the message.
Last-text-line	N2		X	The number of the last text line, not considering blank lines at the end of the text.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object

Subprograms

Z-120
Z-122
Z-123
Z-711
Z-1200&0

Example

```
0010 * This subprogram is called from another program which uses Z-GET06B
0020 * and passes the meeting ISN as a parameter
0030 DEFINE DATA
0040 LOCAL
0050 1 RETURN-CODE     (N2)
0060 1 CABINET         (A8)
0070 1 CALENDAR-ISN    (P10)
0080 1 MEETING-VERSION (N4)
0090 1 PASSWORD        (A8)
0100 1 MESSAGE-TYPE    (A1)
0110 1 TEXT-ARRAY      (A37/1:11)
0120 1 LAST-TEXT-LINE  (N2)
0130 1 #I              (N2)
0140 END-DEFINE
0150 *
0160 RESET RETURN-CODE
0170 MOVE 'LS'  TO CABINET
0180 MOVE 'LS'  TO PASSWORD
0190 MOVE 80715 TO CALENDAR-ISN
0200 *
0210 CALLNAT 'Z-GET06E'
0220  RETURN-CODE
0230  CABINET
0240  PASSWORD
0250  CALENDAR-ISN
0260  MEETING-VERSION
0270  MESSAGE-TYPE
0280  TEXT-ARRAY(*)
0290  LAST-TEXT-LINE
0300 *
0310 IF RETURN-CODE EQ 0
0320  WRITE 'Meeting version' MEETING-VERSION
0330  DECIDE ON FIRST VALUE OF MESSAGE-TYPE
0340   VALUE '0'
0350    IGNORE
0360   VALUE '1'
0370    WRITE 'Meeting update message'
0380    PERFORM PRINT-TEXT
0390   VALUE '2'
400     WRITE 'Meeting cancelation message'
0410    PERFORM PRINT-TEXT
0420   NONE IGNORE
0430  END-DECIDE
0440 ELSE
0450  WRITE 'Error' RETURN-CODE
0460 END-IF
0470 *
0480 DEFINE SUBROUTINE PRINT-TEXT
0490  IF LAST-TEXT-LINE NE 0
0500   FOR #I 1 LAST-TEXT-LINE
0510    WRITE TEXT-ARRAY(#I)
0520   END-FOR
0530  END-IF
0540 END-SUBROUTINE
0550 *
0560 END
```

Z-GET11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return the description of a document.

If the document contains text, the text is copied to the Natural source code edit area (ESIZE). Using Z-ADD11, for example, you can add a Con-nect document from the contents of this edit area.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the wanted document.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document for which you want to return the description. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document for which you want to return the description. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Description	A60/1:4		X	The description of the document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
57	Document contains no text
91	Document is not in Txt or Cnf format

Subprograms

Z-115
Z-120
Z-122
Z-123
Z-130
Z-140
Z-165
Z-175
Z-194
Z-197
Z-222

Z-223
Z-400
Z-401
Z-1200&0

Z-GET11C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return a document, including cover notes and enclosed documents, into a text array.

The parameters Text-array, Last-line-filled and Last-line-text are returned only for the document formats Txt and Cnf. All other document formats (such as Bin) are returned only once in the Document-format parameter. For example, for a binary enclosure consisting of several records, only the first record is read; the parameters Document-format, Text-type, Text-type-total, Text-type-current are filled; the Text-array parameter remains empty, therefore, 0 is returned in the parameters Last-line-filled and Last-line-text.

This subprogram should be invoked iteratively until the return code is 77. Return code 77 indicates that the document including all cover notes and enclosures has been read.

Notes:

1. To return an item that is stored in the folder Inbasket, Outbasket or Wastebasket, you must pass the ISN which has been returned from a previous API subprogram.
2. If a document does not have a name (i.e. if the document is identified by its description), it can only be returned using the ISN.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the wanted document.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document that you want to return. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document that you want to return. Either ISN or Document-name, not both.
Description	A60/1:4		X	The description of the document.
Document-format	A1		X	See **Document Formats**.
Text-type	A1		X	The type of text which is currently being processed: C=cover note, T=document text, E=enclosed document.
Text-type-total	P3		X	The total number of cover notes or enclosures. The numbers of cover notes and enclosures are returned separately. For the document itself, 0 is returned.
Text-type-current	P3		X	The sequence number of the cover note/enclosure currently being processed. The numbers of cover notes and enclosures are returned separately. For the document itself, 0 is returned.
Text-array	A251/1:20		X	Only returned for the document formats 0 (Txt) and 1(Cnf). The first character returned in every element of the Text-array indicates the number of lines to repeat.
Last-line-filled	N2		X	The number of all lines of the current record, including all blank lines at the end of the text. Only returned for the document formats 0 (Txt) and 1 (Cnf).
Last-line-text	N2		X	The number of the last text line, not considering blank lines at the end of the text. Only returned for the document formats 0 (Txt) and 1 (Cnf).
Work-parameter-1	A240			For internal use. See **The Work Parameter**.
Work-parameter-2	A79			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
77	End of object

Subprograms

Z-120
Z-122
Z-123
Z-165
Z-175
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-GET11D

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return a document, including cover notes, attached notes and enclosed documents, in a text array.

This subprogram is similar to Z-GET11C with the exception that it also returns attached notes and documents in the formats Bin, RFT, FFT and Vce (in addition to Txt and Cnf).

To return documents in the formats Bin, RFT, FFT and Vce, which were added via Entire Connection (import), you can mark the parameter Convert to convert them to the old Entire Connection transmission format.

The parameter Last-line-text is evaluated only for the document formats Txt and Cnf. For all other document formats, the values for Last-line-filled and Last-line-text are identical.

This subprogram should be invoked iteratively until the return code is 77. Return code 77 indicates that the document including all cover notes, attached notes and enclosures has been read.

If the return code is 77 and the parameter Attachment-ISN returns 0, information is not returned in other parameters.

Notes:

1. To return an item that is stored in a system folder such as the Inbasket, you must pass the ISN which has been returned from a previous API subprogram.
2. If a document does not have a name (i.e. if the document is identified by its description), it can only be returned using the ISN.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the desired document.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document that you want returned. Either Document-name or Document-ISN, not both.
Document-ISN	P10	R*		The ISN of the document that you want returned. Either Document-ISN or Document-name, not both.
Description	A60/1:4		X	The description of the document.
Document-format	A1		X	0=Txt, 1=Cnf, 2=Bin, 4=RTF, 7=FFT, 9=Vce.
Text-type	A1		X	The type of text which is currently being processed: C=cover note, T=document text, E=enclosed document, N=attached note.
Text-type-total	P3		X	The total number of cover notes, enclosures or attached notes. The total number of cover notes, enclosures and attached notes are returned separately. For the document itself, 0 is returned.
Text-type-current	P3		X	The sequence number of the cover note, enclosure or attached note currently being processed. The total number of cover notes, enclosures and attached notes are returned separately. For the document itself, 0 is returned.
Text-array	A251/1:20		X	Text (Txt or Cnf) or binary data (Bin, RFT, FFT or Vce). The first character returned in every element of the Text-array indicates the number of lines to repeat.
Last-line-filled	N2		X	The number of all lines of the current record, including all blank lines at the end of the text.
Last-line-text	N2		X	Txt and Cnf: the number of the last text line, not considering blank lines at the end of the text. All other document formats: identical with Last-line-filled.
Note-subject	A32		X	The subject of the note.
Attachment-ISN	P10		X	The ISN of the cover note, enclosure or attached note. This ISN can be used with Z-DETACH.
Convert	A1	O		Applies to Bin, RFT, FFT and Vce documents. If marked, binary data (B90) is converted to the old Entire Connection transmission format (A120).
Work-parameter-1	A240			For internal use. See **The Work Parameter**.
Work-parameter-2	A81			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
77	End of object

Subprograms

Z-120
Z-122
Z-123
Z-165
Z-175
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 *
0020 * Return a document with cover notes, attached notes, enclosed documents
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1  RETURN-CODE      (N2)
0070 1  CABINET          (A8)
0080 1  PASSWORD         (A8)
0090 1  DOCUMENT-NAME    (A32)
0100 1  DOCUMENT-ISN     (P10)
0110 1  DESCRIPTION      (A60/1:4)
0120 1  DOCUMENT-FORMAT  (A1)
0130 1  TEXT-TYPE        (A1)
0140 1  TEXT-TYPE-TOTAL  (P3)
0150 1  TEXT-TYPE-CURRENT(P3)
0160 1  TEXT-ARRAY       (A251/1:20)
0170 1  LAST-LINE-FILLED (N2)
0180 1  LAST-LINE-TEXT   (N2)
0190 1  NOTE-SUBJECT     (A32)
```

```
0200 1  ATTACHMENT-ISN   (P10)
0210 1  CONVERT          (A1)
0220 1  WORK-PARAMETER-1 (A240)
0230 1  WORK-PARAMETER-2 (A81)
0240 *
0250 END-DEFINE
0260 *
0270 RESET WORK-PARAMETER-1 WORK-PARAMETER-2
0280 MOVE 'CABINET ' TO CABINET
0290 MOVE 'PASSWORD' TO PASSWORD
0300 MOVE 'DOCUMENT-NAME' TO DOCUMENT-NAME
0310 *
0320 REPEAT UNTIL RETURN-CODE NE 0
0330   CALLNAT 'Z-GET11D' RETURN-CODE
0340     CABINET
0350     PASSWORD
0360     DOCUMENT-NAME
0370     DOCUMENT-ISN
0380     DESCRIPTION(*)
0390     DOCUMENT-FORMAT
0400     TEXT-TYPE
0410     TEXT-TYPE-TOTAL
0420     TEXT-TYPE-CURRENT
0430     TEXT-ARRAY(*)
0440     LAST-LINE-FILLED
0450     LAST-LINE-TEXT
0460     NOTE-SUBJECT
0470     ATTACHMENT-ISN
0480     CONVERT
0490     WORK-PARAMETER-1
0500     WORK-PARAMETER-2
0510 *
0520   IF RETURN-CODE EQ 0 OR EQ 77
0530     NEWPAGE
0540     WRITE  '=' DOCUMENT-NAME  /  '='   DOCUMENT-ISN  /
0550 *
0560     WRITE
0570       'DESCRIPTION(1)'  DESCRIPTION (1) /
0580       'DESCRIPTION(2)'  DESCRIPTION (2) /
0590     WRITE
0600       '='   DOCUMENT-FORMAT
0610       '='   TEXT-TYPE
0620       '='   TEXT-TYPE-TOTAL
0630       '='   TEXT-TYPE-CURRENT  /
0640       '='   NOTE-SUBJECT
0650       '='   ATTACHMENT-ISN
0660       '='   CONVERT            /
0670       '='   LAST-LINE-FILLED
0680       '='   LAST-LINE-TEXT
0690 *
0700     IF LAST-LINE-FILLED GT 0
0710       IF NOT ( DOCUMENT-FORMAT EQ ' '
0720           OR   DOCUMENT-FORMAT EQ '0'
0730           OR   DOCUMENT-FORMAT EQ '1' )
0740 *       Texts in Bin (not Entire Connection format)
0750 *       or Bin,RFT,FFT,Vce (Entire Connection format)
0760 *       are displayed in hexadecimal format
0770 *
0780         WRITE
0790           / 'BIN-ARRAY(1)              '     TEXT-ARRAY(1)
0800           (AL=30 EM=HHHHHHHHHHHHHHHHHHHHHHHHHH)
0810           / 'BIN-ARRAY(2)              '     TEXT-ARRAY(2)
```

```
0820          (AL=30 EM=HHHHHHHHHHHHHHHHHHHHHHHHH)
0830          / 'BIN-ARRAY(LAST-LINE-FILLED) '
0840          TEXT-ARRAY(LAST-LINE-FILLED)
0850          (AL=30 EM=HHHHHHHHHHHHHHHHHHHHHHHHH)
0860      ELSE
0870        WRITE
0880          / 'TEXT-ARRAY(1)        '   TEXT-ARRAY(1)(AL=30)
0890          / 'TEXT-ARRAY(2)        '   TEXT-ARRAY(2)(AL=30)
0900          / 'TEXT-ARRAY(LAST-LINE-FILLED)  '
0910          TEXT-ARRAY(LAST-LINE-FILLED)(AL=30)
0920      END-IF
0930    END-IF
0940  END-IF
0950 END-REPEAT
0960 WRITE  'Return code ' RETURN-CODE
0970 END
```

Z-GET11X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the description of a document.

This subprogram is the same as Z-GET11 with the one exception that the parameter ISN uses the format P10.

If the document contains text, the text is copied to the Natural source code edit area (ESIZE). Using Z-ADD11X, for example, you can add a Con-nect document from the contents of this edit area.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the wanted document.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document for which you want to return the description. Either Document-name or ISN, not both.
ISN	P10	R*		The ISN of the document for which you want to return the description. Either ISN or Document-name, not both. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
Description	A60/1:4		X	The description of the document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
57	Document contains no text
91	Document is not in Txt or Cnf format

Subprograms

Z-115
Z-120
Z-122
Z-123
Z-130
Z-140
Z-165
Z-175
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 *
0020 * Example program to return the description of a document.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE        (N2)
0070 1 CABINET            (A8)
0080 1 PASSWORD           (A8)
0090 1 DOCUMENT-NAME      (A32)
0100 1 ISN                (P10)
0110 1 DESCRIPTION        (A60/1:4)
0120 1 #INDEX             (I1)
0130 *
0140 END-DEFINE
```

```
0150 *
0160 RESET RETURN-CODE
0170 MOVE 'CABINET'  TO CABINET
0180 MOVE 'PASSWORD' TO PASSWORD
0190 MOVE 1234567890 TO ISN
0200 *
0200 *
0210 CALLNAT 'Z-GET11X'
0220   RETURN-CODE
0230   CABINET
0240   PASSWORD
0250   DOCUMENT-NAME
0260   ISN
0270   DESCRIPTION(*)
0280 *
0290 IF  RETURN-CODE EQ 0
0300   WRITE 'Return status OK' (I) /
0310   FOR #INDEX 1 TO 4
0320     WRITE '=' DESCRIPTION(#INDEX)
0330   END-FOR
0340 ELSE
0350   WRITE 'Return code ' RETURN-CODE
0360 END-IF
0370 *
0380 END
```

Z-GET27

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return information about a reference document.

When you return information for a reference document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the reference document indicates that it has been read. Additionally, the reference document is moved from the file New to file Opened. In this case, END TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the reference document is stored.
Password	A8	R		The password of the above cabinet.
Ref-document-name	A32	R*		The name of the reference document for which you want to return information. Either Ref-document-name or ISN, not both.
ISN	P8	R*		The ISN of the reference document for which you want to return information. Either ISN or Ref-document-name, not both.
Description	A60/1:4		X	The description of the reference document.
Keywords	A15/1:6		X	Keywords are helpful later when you search for an object.
Title	A60		X	The title of the work.
Writer	A60		X	The writer of the work.
Private-flag	A1		X	If marked, the reference document is a private object.
Security-flags	A4		X	The security levels for Read, Modify and Copy. Values 0 to 9. The security level for Print (fourth byte) is not used for reference documents.
Folder-name	A15		X	The folder in which the reference document is stored.
File-name	A15		X	The file within the above folder in which the reference document is stored.
Author-user-ID	A8		X	Name of the cabinet in which the reference document was added.
Date-created	N8		X	Format yyyymmdd. The date when the reference document was added.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-GET27A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return information about a reference document.

When you return information for a reference document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the reference document indicates that it has been read. Additionally, the reference document is moved from the file New to the file Opened. In this case, END TRANSACTION is automatically issued.

The returned date and time values are based on GMT.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the reference document is stored.
Password	A8	R		The password of the above cabinet.
Ref-document-name	A32	R*	X	The name of the reference document for which you want to return information. Either Ref-document-name or ISN, not both.
ISN	P10	R*	X	The ISN of the reference document for which you want to return information. Either ISN or Ref-document-name, not both.
Description	A60/1:4		X	The description of the reference document.
Keywords	A15/1:6		X	Keywords are helpful later when you search for an object.
Title	A60		X	The title of the work.
Writer	A60		X	The writer of the work.
Private-flag	A1		X	If marked, the reference document is a private object.
Security-flags	A4		X	The security levels for Read, Modify and Copy. Values 0 to 9. The security level for Print (fourth byte) is not used for reference documents.
Folder-name	A15		X	The folder in which the reference document is stored.
File-name	A15		X	The file within the above folder in which the reference document is stored.
Date-created	P8		X	The date when the reference document was created.
Time-created	P4		X	The time when the reference document was created.
Created-ID	A8		X	The user ID of the person who has created the reference document.
Date-modified	P8		X	The date when the reference document was last modified.
Time-modified	P4		X	The time when the reference document was last modified.
Modified-ID	A8		X	The user ID of the person who has last modified the reference document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist

Subprograms

Z-120
Z-122
Z-123
Z-175
Z-147
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 *
0050 1 RETURN-CODE              (N2)
0060 1 CABINET                  (A8)
0070 1 PASSWORD                 (A8)
0080 1 REF-DOCUMENT-NAME        (A32)
0090 1 ISN                      (P10)
0100 1 DESCRIPTION              (A60/1:4)
0110 1 KEYWORDS                 (A15/1:6)
0120 1 TITLE                    (A60)
0130 1 WRITER                   (A60)
0140 1 PRIVATE-FLAG             (A01)
0150 1 SECURITY-FLAGS           (A4)
0160 1 FOLDER-NAME              (A15)
0170 1 FILE-NAME                (A15)
0180 1 DATE-CREATED             (P8)
```

```
0190 1 TIME-CREATED              (P4)
0200 1 CREATED-ID                (A8)
0210 1 DATE-MODIFIED             (P8)
0220 1 TIME-MODIFIED             (P4)
0230 1 MODIFIED-ID               (A8)
0240 *
0250 END-DEFINE
0260 *
0270 INPUT (IP=OFF AD=A'_')
0280         'Cabinet       ' CABINET
0290      /  'Password      ' PASSWORD (AD=N)
0300      /  'Ref. Document ' REF-DOCUMENT-NAME
0310 *
0320 IF   REF-DOCUMENT-NAME NE ' '
0330      CALLNAT 'Z-GET27A'
0340           RETURN-CODE
0350           CABINET
0360           PASSWORD
0370           REF-DOCUMENT-NAME
0380           ISN
0390           DESCRIPTION (*)
0400           KEYWORDS (*)
0410           TITLE
0420           WRITER
0430           PRIVATE-FLAG
0440           SECURITY-FLAGS
0450           FOLDER-NAME
0460           FILE-NAME
0470           DATE-CREATED
0480           TIME-CREATED
0490           CREATED-ID
0500           DATE-MODIFIED
0510           TIME-MODIFIED
0520           MODIFIED-ID
0530      IF   RETURN-CODE EQ 0
0540           WRITE NOTITLE
0550                'Display' REF-DOCUMENT-NAME (AD=I)
0560             // 'Description:' / DESCRIPTION (*)
0570             // 'Keywords:   ' / KEYWORDS (1:3) / KEYWORDS (4:6)
0580             // 'Title:      ' / TITLE
0590              / 'Writer:     ' / WRITER
0600             // 'Filed in:   ' / FOLDER-NAME FILE-NAME
0610      ELSE
0620           WRITE 'Reference document was not found:' RETURN-CODE
0630      END-IF
0640 END-IF
0650 END
```

Z-GET33

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return the date and time formats of a user and the language in which the user works.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The name of the user's cabinet.
Password	A8			Not validated.
Last-name	A32		X	The last name of the user to whom the cabinet was assigned.
First-name	A32		X	The first name of the user.
Language	N1		X	Only codes for languages which have been installed on your system are valid. The language codes are: 1=English, 2=German, 3=French, 4=Spanish, 5=Italian, 6=Dutch, 7=Turkish, Icelandic, Finnish or Swedish, 8=Danish or Hebrew, 9=Norwegian, Portuguese (Brazilian), Arabic or Russian.
Date-format	A5		X	Indicates how the date is displayed in all screens, and the order in which the day, month and year appear. A delimiter separates the day, month, and year values. The values mean: 1=the day is shown as a number, 2=the month is shown as a number, 3=the year is shown as a two-digit number, 4=the month is shown as a three-letter abbreviation, 5=the year is shown as a four-digit number.
Time-format	N1		X	Indicates how the time is displayed in all screens. 0=24h, 1=am/pm
Time-format-delimiter	A1		X	The character which separates the hour and minute values.
Timezone	N2		X	The number of hours ahead or behind your data center time zone.

Return Codes

00	Success
02	Invalid cabinet name

Subprograms

None

Z-GET33A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the work phone number of a user.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The name of the user’s cabinet.
Last-name	A32		X	The last name of the user to whom the cabinet was assigned.
First-name	A32		X	The first name of the user.
Work-phone	A15		X	The user’s work phone number.
Work-phone-extension	A10		X	The extension of the work phone number.

Return Codes

00	Success
02	Invalid cabinet name

Subprograms

None

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE          (N2)
0030 1 CABINET              (A8)
0040 1 LAST-NAME            (A32)
0050 1 FIRST-NAME           (A32)
0060 1 WORK-PHONE           (A15)
0070 1 WORK-PHONE-EXTENSION (A10)
0080 *
0090 END-DEFINE
0100 *
0110 MOVE 'AH' TO CABINET
0120 *
0130 CALLNAT 'Z-GET33A' RETURN-CODE CABINET LAST-NAME FIRST-NAME
0140   WORK-PHONE WORK-PHONE-EXTENSION
0150 *
0160 PRINT RETURN-CODE LAST-NAME FIRST-NAME WORK-PHONE
0170   WORK-PHONE-EXTENSION
0180 END
```

Z-GET33C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the date and time formats of a user, the language in which the user works, and the sliding window value (YSLW).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The name of the user's cabinet.
Password	A8			Not validated.
Last-name	A32		X	The last name of the user to whom the cabinet was assigned.
First-name	A32		X	The first name of the user.
Language	N1		X	Only codes for languages which have been installed on your system are valid. The language codes are: 1=English, 2=German, 3=French, 4=Spanish, 5=Italian, 6=Dutch, 7=Turkish, Icelandic, Finnish or Swedish, 8=Danish or Hebrew, 9=Norwegian, Portuguese (Brazilian), Arabic or Russian.
Date-format	A5		X	Indicates how the date is displayed in all screens, and the order in which the day, month and year appear. A delimiter separates the day, month, and year values. The values mean: 1=the day is shown as a number, 2=the month is shown as a number, 3=the year is shown as a two-digit number, 4=the month is shown as a three-letter abbreviation, 5=the year is shown as a four-digit number.
Time-format	N1		X	Indicates how the time is displayed in all screens. 0=24h, 1=am/pm
Time-delimiter	A1		X	The character which separates the hour and minute values.
Timezone	N2		X	The number of hours ahead or behind your data center time zone.
Use-system-SLW	A1		X	If blank, the value defined in cabinet's user profile is used. If marked, the system default value is used. This value is returned in parameter Sliding-window.
Sliding-window	N2		X	The sliding window value used in the cabinet. Either the value defined in the system defaults or in the cabinet's user profile.

Return Codes

00	Success
02	Invalid cabinet name

Subprograms

N-DEFSLW

Example

```
0010 *
0020 DEFINE DATA
0030 LOCAL
0040 *
0050 1 RETURN-CODE      (N2)
0060 1 CABINET          (A8)
0070 1 PASSWORD         (A8)
0080 1 LAST-NAME        (A32)
0090 1 FIRST-NAME       (A32)
0100 1 LANGUAGE         (N1)
0110 1 DATE-FORMAT      (A5)
0120 1 TIME-FORMAT      (N1)
0130 1 TIME-DELIMITER   (A1)
0140 1 TIMEZONE         (N2)
0150 1 USE-SYSTEM-SLW   (A1)
0160 1 SLIDING-WINDOW   (N2)
0170 *
0180 END-DEFINE
0190 *
0200 MOVE 'CABINET'  TO CABINET
0210 MOVE 'PASSWORD' TO PASSWORD
0220 *
0230 CALLNAT 'Z-GET33C'
0240   RETURN-CODE
0250   CABINET
0260   PASSWORD
0270   LAST-NAME
0280   FIRST-NAME
0290   LANGUAGE
0300   DATE-FORMAT
0310   TIME-FORMAT
0320   TIME-DELIMITER
0330   TIMEZONE
0340   USE-SYSTEM-SLW
0350   SLIDING-WINDOW
0360 *
0370 WRITE
0380   '=' CABINET      /
0390   '=' PASSWORD     /
0400   '=' LAST-NAME    /
0410   '=' FIRST-NAME   /
0420   '=' LANGUAGE     /
0430   '=' DATE-FORMAT  /
0440   '=' TIME-FORMAT  /
0450   '=' TIME-DELIMITER  /
0460   '=' TIMEZONE        /
0470   '=' USE-SYSTEM-SLW /
0480   '=' SLIDING-WINDOW  /
0490 *
0500 IF RETURN-CODE NE 0
0510  WRITE / 'Return code' RETURN-CODE
0520 ELSE
0530   WRITE / 'Return status OK'
0540 END-IF
0550 *
0560 END
```

Z-GET74

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return information about an external node which uses either the transport service or the spool file.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Node-name	A8	R		The name of the external node.
Node-description	A40		X	The description of the external node.
Node-type	A1		X	A=remote Con-nect node, B=Telex, F=SNADS, G=printer, H=Telefax, T=Teletex, U=Lotus AU/Con-nect: Internet E-mail.
Address-level	N1		X	The address level establishes limitations for the Send function. A value between 0 (lowest level) and 9 (highest level).
Destination-node	A8		X	Only returned for a node which uses the transport service. The name by which the node is identified by the transport service.
Node-parameters	A250/1:7		X	The physical address of the external node. See **External Communication**. For a node which uses the spool file, only the first occurrence of the Node-parameters is used.

Return Codes

00	Success
93	Node does not exist

Subprograms

Z-191

Z-GETADR

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the work and home address for a cabinet or nickname.

This subprogram can be used by different types of users. Depending on the type of user, the following functions are allowed:

- **Cabinet Administrator**
  Return the addresses for cabinets (except for cabinet SYSCNT), or for nicknames in the cabinet administrator's own private cabinet.

- **System Administrator**
  Return the address for cabinet SYSCNT, for nicknames in cabinet SYSCNT, or for nicknames in the system administrator's own private cabinet.

- **Any Other User**
  Return the addresses for nicknames in the user's own private cabinet.

You can specify one of the following in the parameter Cabinet-name or Nickname:

- to display all addresses alphabetically, you specify an asterisk (*);

- to display the addresses for all cabinets or nicknames that start with specific letters, you specify the letters followed by an asterisk (for example, SAG*);

- to display the address for a specific cabinet or nickname, you specify its name.

This subprogram can be invoked iteratively, until the return code 77 indicates the end of the list.

The following table shows the parameters that are used for the different functions of this subprogram:

Function	Cabinet	Cabinet-name	Nickname
Return the address for a cabinet (except SYSCNT).	User ID of a cabinet administrator.	The name of a specific cabinet; or an asterisk (*); or letter(s) followed by an asterisk (*).	
Return the address for cabinet SYSCNT.	User ID of a system administrator.	The cabinet name "SYSCNT".	
Return a nickname in cabinet SYSCNT.	The cabinet name "SYSCNT".		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).
Return a nickname in the own private cabinet.	The name of the cabinet in which the nickname is stored.		A specific nickname; or an asterisk (*); or letter(s) followed by an asterisk (*).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		To return the address for a cabinet, this must be the user ID of a cabinet administrator. To return the address of a nickname, this must be the ID of the cabinet in which the nickname is stored.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*	X	See the description above. Either Cabinet-name or Nickname, not both.
Nickname	A32	R*	X	See the description above. Either Nickname or Cabinet-name, not both.
Object-ISN	P10		X	The ISN of the cabinet or nickname.
Object-number	N2		X	1=address (nickname), 5=all types of cabinets.
Private-flag	A1		X	If marked, this is a private address.
Last-name	A32		X	
First-name	A32		X	
Initial	A1		X	
Work-title	A32		X	
Work-company	A32		X	
Work-location	A32		X	
Work-address	A60/1:3		X	

Parameter	Format	In	Out	Remarks
Work-city	A32		X	
Work-country	A8		X	
Work-department-name	A32		X	
Work-department-number	A10		X	
Work-phone	A15		X	
Work-phone-country	N2		X	
Work-phone-extension	A10		X	
Work-postal-code	A10		X	
Work-state	A8		X	
Home-address	A60/1:2		X	
Home-city	A32		X	
Home-country	A8		X	
Home-phone	A15		X	
Home-phone-country	N2		X	
Home-postal-code	A10		X	
Home-state	A8		X	
Work-parameter	A88			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
53	Requested object does not exist
77	End of list
92	You can either specify Cabinet-name or Nickname, you must not specify both
93	You must specify the parameter Cabinet-name or Nickname

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

See the example for Z-MODADR.

Z-GETAG

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the text of an agenda that has been attached to an appointment, meeting or invitation. This also includes modified meetings and cancelation messages.

This subprogram returns agendas in the formats Txt, Cnf, Bin, RFT, FFT and Vce.

To return an agenda which was added via Entire Connection (import), you can mark the parameter Convert to convert it to the old Entire Connection transmission format.

The parameters Last-line-filled and Last-line-text are returned only for the document formats Txt and Cnf.

This subprogram should be invoked iteratively until the return code is 77. Return code 77 indicates that the agenda has been read.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the desired document.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R		The ISN of the first record of the appointment, meeting or invitation for which the agenda is to be returned.
Agenda-name	A32		X	The name of the document that is used as an agenda.
Document-format	A1		X	0=Txt, 1=Cnf, 2=Bin, 4=RTF, 7=FFT, 9=Vce.
Text-array	A251/1:20		X	Text (Txt or Cnf) or binary data (Bin, RFT, FFT or Vce). The first character returned in every element of the Text-array indicates the number of lines to repeat.
Last-line-filled	N2		X	The number of all lines of the current record, including all blank lines at the end of the text. Only returned for Txt and Cnf documents.
Last-line-text	N2		X	The number of the last text line, not considering blank lines at the end of the text. Only returned for Txt and Cnf documents.
Convert	A1	O		Applies to Bin, RFT, FFT and Vce documents. If marked, binary data (B90) is converted to the old Entire Connection transmission format (A120).
Work-parameter	A25			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object (meeting, appointment or invitation)
77	End of object

Subprograms

Z-120
Z-122
Z-123
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
* Return an agenda of a meeting
*
DEFINE DATA
LOCAL
1  RETURN-CODE      (N2)
1  CABINET          (A8)
1  PASSWORD         (A8)
1  CALENDAR-ISN     (P10)
1  AGENDA-NAME      (A32)
1  DOCUMENT-FORMAT  (A1)
1  TEXT-ARRAY       (A251/1:20)
1  LAST-LINE-FILLED (N2)
1  LAST-LINE-TEXT   (N2)
1  CONVERT          (A1)
1  WORK-PARAMETER   (A25)
*
END-DEFINE
*
RESET WORK-PARAMETER
MOVE 'Cabinet ' TO CABINET
MOVE 'Password' TO PASSWORD
MOVE 102760     TO CALENDAR-ISN
*
REPEAT UNTIL RETURN-CODE NE 0
  CALLNAT 'Z-GETAG'
    RETURN-CODE
    CABINET
    PASSWORD
    CALENDAR-ISN
    AGENDA-NAME
    DOCUMENT-FORMAT
    TEXT-ARRAY(*)
    LAST-LINE-FILLED
    LAST-LINE-TEXT
    CONVERT
    WORK-PARAMETER
*
  IF RETURN-CODE EQ 0 OR EQ 77
NEWPAGE
    WRITE  '=' AGENDA-NAME  /  '='   CALENDAR-ISN  /
*
    WRITE
      '='   DOCUMENT-FORMAT
      '='   CONVERT  /
      '='   LAST-LINE-FILLED
      '='   LAST-LINE-TEXT
*
    IF LAST-LINE-FILLED GT 0
      IF NOT ( DOCUMENT-FORMAT EQ ' '
          OR   DOCUMENT-FORMAT EQ '0'
          OR   DOCUMENT-FORMAT EQ '1' )
*       Text in Bin (no Entire Connection format)
*       or Bin, RFT, FFT, Vce (Entire Connection format)
*       is displayed in hexadecimal format
*
        WRITE
          / 'BIN-ARR(1)              '     TEXT-ARRAY(1)
          (AL=30 EM=HHHHHHHHHHHHHHHHHHHHHHHHHH)
          / 'BIN-ARR(2)              '     TEXT-ARRAY(2)
          (AL=30 EM=HHHHHHHHHHHHHHHHHHHHHHHHHH)
```

```
          / 'BIN-ARR(LAST-LINE-FILLED) '
          TEXT-ARRAY(LAST-LINE-FILLED)
          (AL=30 EM=HHHHHHHHHHHHHHHHHHHHHHHHH)
      ELSE
        WRITE
          / 'TEXT-ARR(1)        '   TEXT-ARRAY(1)(AL=30)
          / 'TEXT-ARR(2)        '   TEXT-ARRAY(2)(AL=30)
          / 'TEXT-ARR(LAST-LINE-FILLED)  '
          TEXT-ARRAY(LAST-LINE-FILLED)(AL=30)
      END-IF
    END-IF
  END-IF
END-REPEAT
WRITE  'Return code: ' RETURN-CODE
END
```

Z-GETOBJ

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return the text lines of a user-defined object into a text array.

This subprogram can be invoked iteratively, until the return code 77 indicates the end of the object.

When you return the text lines of a user-defined object which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the user-defined object indicates that it has been read. Additionally, the user-defined object is moved from the file New to the file Opened. In this case, END TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the user-defined object is stored.
Password	A8	R		The password of the above cabinet.
Object-number	N2	R		The number of the user-defined object to be returned.
Object-name	A32	R*		The name of the user-defined object. Either Object-name or Object-ISN, not both.
Object-ISN	P8	R*	X	The ISN of the user-defined object. Input: either Object-ISN or Object-name, not both.
Object-format	A1		X	Can be any user-defined object format. If the object is a document, this can also be a Con-nect document format. See **Document Formats**.
Folder-name	A15		X	The folder in which the user-defined object is stored.
File-name	A15		X	The file within the above folder in which the user-defined object is stored.
Description	A60/1:4		X	The description of the user-defined object.
User-data	A60/1:4		X	Can be any information included by the user.
Text-array	A251/1:20		X	Can be any text included by the user.
Work-parameter	A21			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	Object ISN was not found
08	Supply either object ISN or name, not both
09	ISN does not point to an object record
51	Invalid name
53	Requested object does not exist
68	Object is not a user-defined object
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-GLOBAL

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the contents of global variables in the Con-nect global data area GL-STD.

Z-GLOBAL must be in the same library as the Con-nect modules.

Z-GLOBAL is a Natural subroutine. Therefore, you must use the PERFORM statement to invoke it.

In the parameter Variable-list, you must specify the number of each variable of which you want to return the contents.

Number	Variable Name	Description
01	G-CURRENT-CABINET	Name of the cabinet in which user is currently working.
02	G-USER-ID	Name of the private cabinet that was accessed using a password.
03	G-USER-NAME	Last name and first name of the user.
04	G-CURR-ISN	Adabas ISN of current Con-nect object.
05	G-LAST-ISN	Adabas ISN of last used Con-nect object.
06	G-COMMAND	Con-nect command that the user issued in the command line.
07	G-LAST-COMMAND	Last Con-nect command (this corresponds to the Con-nect command *= which is by default assigned to PF11).
08	G-COMMAND-SEQ	Blank for command sequence "command object name". An X for alternative command sequence "object name command".*
09	G-CURRENT-MAP	Name of the current map.
10	G-LANGUAGE	Language code.*
11	G-DEFAULT-FOLDER	Name of the default folder.*
12	G-DEFAULT-FILE	Name of the default file in the default folder.*
13	G-PRINT-TID	Terminal ID of the printer or "PC".*
14	G-PRINT-DEST	Name of the logical printer.*
15	G-PRINT-PROFILE-NAME	Name of the printer profile.*
16	G-FMT-PROFILE-NAME	Name of the formatting profile.*
17	G-PRINT-PS	Page length.*
18	G-PRINT-LS	Line width.*
19	G-S-SUBJECT-LINE	Subject of the mail item.
20	G-S-SEND-ISN	Adabas ISN of the original mail item.
21	G-S-OUTISN	Adabas ISN of the mail item in the Outbasket.

Note:
An asterisk (*) in the above list indicates a value that is defined in the profile of the current cabinet or that is defined with the OUTPUT command for the current session.

After you have performed Z-GLOBAL, the parameter Output-area contains the contents of the variables you specified.

When the contents of all variables exceeds 250 bytes - which is indicated by return code 99 - you must specify the number of each variable for which no output occurred once more in the parameter Variable-list and then perform Z-GLOBAL again to return the contents of the remaining variables.

Each variable that is returned in the parameter Output-area is preceded by a 6 byte long header:

Byte Number	Description
1 and 2	Variable number (see the above list).
3	Format of the variable: A or N.
4 to 6	Length of the variable.

For example, when you specify 01 in the parameter Variable-list and the current contents of G-CURRENT-CABINET (format A8) is LS, the following is returned in the parameter Output-area:

```
01A008LS
```

In the above example, the output is followed by 6 blanks since LS is only 2 bytes long.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Variable-list	N2/1:10	R		The number of each variable of which the contents is to be returned. See the above list.
Output-area	A250		X	The contents of each variable preceded by a 6 byte long header.

Return Codes

00	Success
99	Output-area not large enough for request

Subprograms

None

Example

```
0010 DEFINE DATA LOCAL
0020 01 RETURN-CODE          (N2)
0030 01 VARIABLE-LIST        (N2/10) INIT <01,19,21>
0040 01 OUTPUT-AREA          (A250)
0050 01 REDEFINE OUTPUT-AREA
0060    02 OUTPUT-AREA-ARRAY (A1/250)
0070 01 OUT-INDEX (P3) INIT <1> /* points to position within OUTPUT-AREA-ARRAY
0080 *
0090 01 I         (P3)          /* loop count
0100 01 J         (P3)          /* loop count
0110 01 K         (P3)          /* loop count
0120 *
0130 01 HEADER    (A1/6)
0140 01 REDEFINE HEADER
0150    02 VAR-NUM    (N2)
0160    02 VAR-FMT    (A1)
0170    02 VAR-LENGTH (N3)
0180 *
0190 01 VAR-CONTENT   (A1/60)
0200 01 REDEFINE VAR-CONTENT
0210    02 ALPHA      (A60)
0220 01 REDEFINE VAR-CONTENT
0230    02 NUMERIC    (N12)
0240 END-DEFINE
0250 *
0260 PERFORM Z-GLOBAL  RETURN-CODE VARIABLE-LIST(*) OUTPUT-AREA
0270 *
0280 FOR I 1 TO 3
0290 *
0300   IF RETURN-CODE EQ 99  /* output area not large enough
0310      AND
0320      OUTPUT-AREA-ARRAY(OUT-INDEX) EQ ' ' /* space instead of number
0330      OR
0340      OUT-INDEX  >  250  /* last variable ended with byte 250
0350     WRITE '* Perform again to return contents of remaining variables *'
0360     ESCAPE BOTTOM
0370   END-IF
0380 *
0390   FOR  J      1  TO 6                /* move number of variable and format
0400     MOVE OUTPUT-AREA-ARRAY(OUT-INDEX) TO HEADER (J)
0410     ADD  1       TO OUT-INDEX
0420   END-FOR
0430 *
0440   IF VAR-FMT  EQ   'A'
0450     PERFORM MOVE-ALPHA
0460   ELSE                              /* if 'N'
0470     PERFORM MOVE-NUMERIC
0480   END-IF
0490 *
0500   IF VAR-NUM = 1
0510     WRITE ' Cabinet      : ' ALPHA
0520   END-IF
0530   IF VAR-NUM = 19
0540     WRITE ' Subject line : ' ALPHA
0550   END-IF
0560   IF VAR-NUM = 21
0570     WRITE ' Outbasket ISN: ' NUMERIC
0580   END-IF
0590 *
0600 END-FOR
```

```
0610 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0620 DEFINE SUBROUTINE MOVE-ALPHA  /* left-aligned
0630   RESET ALPHA
0640   FOR  K  1 TO VAR-LENGTH
0650     MOVE OUTPUT-AREA-ARRAY(OUT-INDEX) TO VAR-CONTENT(K)
0660     ADD  1  TO OUT-INDEX
0670   END-FOR
0680 END-SUBROUTINE
0690 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0700 DEFINE SUBROUTINE MOVE-NUMERIC /* move ALL numeric values into N12
0710   RESET NUMERIC
0720   COMPUTE  J = 12 - VAR-LENGTH
0730   FOR  K   1 TO VAR-LENGTH
0740     MOVE OUTPUT-AREA-ARRAY(OUT-INDEX) TO VAR-CONTENT(J+K)
0750     ADD  1   TO OUT-INDEX
0760   END-FOR
0770 END-SUBROUTINE
0780 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0790 END
```

Z-IN11G2

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return the document information.

To update the document information, you must use Z-IN11U1. To return the text of the document, you must use Z-GET11C.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document information is to be returned.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document for which you want to return the document information. Either Document-name or ISN, not both.
ISN	P8	R*	X	The ISN of the document for which you want to return the document information. Input: either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Description	A60/1:4		X	The description of the document.
Keywords	A15/1:6		X	Keywords are helpful when you search for an object.
Private-flag	A1		X	If marked, this is a private document.
Security-flags	A4		X	The security levels for Read, Modify, Copy and Print. Values 0 to 9.
Formatting-profile	A32		X	The name of the formatting profile.
Pre-format-procedures	A32/1:4		X	The names of the pre-formatting procedures.
Post-format-procedures	A32/1:4		X	The names of the post-formatting procedures.

Parameter	Format	In	Out	Remarks
Folder-name	A15		X	The folder in which the document is stored.
File-name	A15		X	The file within the above folder in which the document is stored.
TRS-document-flag	A1		X	If marked, the document is a TRS document.
Document-format	A1		X	See **Document Formats**.
Enclosures	N2		X	The number of enclosures.
Attached-notes	N2		X	The number of attached notes and cover notes.
Created-ID	A8		X	The user ID of the person who has created the document.
Date-created	N8		X	The date when the document was created.
Time-created	N4		X	The time when the document was created.
Modified-ID	A8		X	The user ID of the person who has last modified the document.
Date-modified	N8		X	The date when the document was last modified.
Time-modified	N4		X	The time when the document was last modified.
Mailed-ID	A16		X	The user ID of the person who has sent the document to this cabinet.
Date-mailed	N8		X	The date when the document was mailed.
Time-mailed	N4		X	The time when the document was mailed.
Forwarded-ID	A16		X	The user ID of the person who has forwarded the document to this cabinet.
Date-forwarded	N8		X	The date when the document was forwarded.
Time-forwarded	N4		X	The time when the document was forwarded.
Replied-ID	A16		X	The user ID of the person who has sent this document as a reply.
Date-replied	N8		X	The date when the reply was sent.
Time-replied	N4		X	The time when the reply was sent.
Expiration-date	N8		X	The expiration date of the document. Format yyyymmdd.
Archive-flag	A1		X	If marked, the document is stored on some other medium (e.g. on tape) when the expiration date is reached.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-1200&0

Z-IN11GX

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the document information.

This subprogram is the same as Z-IN11G2 with the one exception that the parameter ISN uses the format P10.

To update the document information, you must use Z-IN11UX. To return the text of the document, you must use Z-GET11C.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document information is to be returned.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document for which you want to return the document information. Either Document-name or ISN, not both.
ISN	P10	R*	X	The ISN of the document for which you want to return the document information. Input: either ISN or Document-name, not both. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
Description	A60/1:4		X	The description of the document.
Keywords	A15/1:6		X	Keywords are helpful when you search for an object.
Private-flag	A1		X	If marked, this is a private document.
Security-flags	A4		X	The security levels for Read, Modify, Copy and Print. Values 0 to 9.

Parameter	Format	In	Out	Remarks
Formatting-profile	A32		X	The name of the formatting profile.
Pre-format-procedures	A32/1:4		X	The names of the pre-formatting procedures.
Post-format-procedures	A32/1:4		X	The names of the post-formatting procedures.
Folder-name	A15		X	The folder in which the document is stored.
File-name	A15		X	The file within the above folder in which the document is stored.
TRS-document-flag	A1		X	If marked, the document is a TRS document.
Document-format	A1		X	See **Document Formats**.
Enclosures	N2		X	The number of enclosures.
Attached-notes	N2		X	The number of attached notes and cover notes.
Created-ID	A8		X	The user ID of the person who has created the document.
Date-created	N8		X	The date when the document was created.
Time-created	N4		X	The time when the document was created.
Modified-ID	A8		X	The user ID of the person who has last modified the document.
Date-modified	N8		X	The date when the document was last modified.
Time-modified	N4		X	The time when the document was last modified.
Mailed-ID	A16		X	The user ID of the person who has sent the document to this cabinet.
Date-mailed	N8		X	The date when the document was mailed.
Time-mailed	N4		X	The time when the document was mailed.
Forwarded-ID	A16		X	The user ID of the person who has forwarded the document to this cabinet.
Date-forwarded	N8		X	The date when the document was forwarded.
Time-forwarded	N4		X	The time when the document was forwarded.
Replied-ID	A16		X	The user ID of the person who has sent this document as a reply.
Date-replied	N8		X	The date when the reply was sent.
Time-replied	N4		X	The time when the reply was sent.
Expiration-date	N8		X	The expiration date of the document. Format yyyymmdd.
Archive-flag	A1		X	If marked, the document is stored on some other medium (e.g. on tape) when the expiration date is reached.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-1200&0

Example

```
0010 *
0020 * Example program to return the document information.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE                (N2)
0070 1 CABINET                    (A8)
0080 1 PASSWORD                   (A8)
0090 1 DOCUMENT-NAME              (A32)
0100 1 ISN                        (P10)
0110 1 DESCRIPTION                (A60/1:4)
0120 1 KEYWORDS                   (A15/1:6)
0130 1 PRIVATE-FLAG               (A1)
0140 1 SECURITY-FLAGS             (A4)
0150 1 FORMATTING-PROFILE         (A32)
0160 1 PRE-FORMAT-PROCEDURES      (A32/1:4)
0170 1 POST-FORMAT-PROCEDURES     (A32/1:4)
0180 1 FOLDER-NAME                (A15)
0190 1 FILE-NAME                  (A15)
0200 1 TRS-DOCUMENT-FLAG          (A1)
0210 1 DOCUMENT-FORMAT            (A1)
0220 1 ENCLOSURES                 (N2)
0230 1 ATTACHED-NOTES             (N2)
0240 1 CREATED-ID                 (A8)
0250 1 DATE-CREATED               (N8)
0260 1 TIME-CREATED               (N4)
0270 1 MODIFIED-ID                (A8)
0280 1 DATE-MODIFIED              (N8)
0290 1 TIME-MODIFIED              (N4)
0300 1 MAILED-ID                  (A16)
```

```
0310 1 DATE-MAILED                (N8)
0320 1 TIME-MAILED                (N4)
0330 1 FORWARDED-ID               (A16)
0340 1 DATE-FORWARDED             (N8)
0350 1 TIME-FORWARDED             (N4)
0360 1 REPLIED-ID                 (A16)
0370 1 DATE-REPLIED               (N8)
0380 1 TIME-REPLIED               (N4)
0390 1 EXPIRATION-DATE            (N8)
0400 1 ARCHIVE-FLAG               (A1)
0410 *
0420 END-DEFINE
0430 *
0440 RESET RETURN-CODE
0450 MOVE 'CABINET'  TO CABINET
0460 MOVE 'PASSWORD' TO PASSWORD
0470 MOVE 1234567890 TO ISN
0480 *
0490 CALLNAT 'Z-IN11GX'
0500   RETURN-CODE
0510   CABINET
0520   PASSWORD
0530   DOCUMENT-NAME
0540   ISN
0550   DESCRIPTION(*)
0560   KEYWORDS(*)
0570   PRIVATE-FLAG
0580   SECURITY-FLAGS
0590   FORMATTING-PROFILE
0600   PRE-FORMAT-PROCEDURES(*)
0610   POST-FORMAT-PROCEDURES(*)
0620   FOLDER-NAME
0630   FILE-NAME
0640   TRS-DOCUMENT-FLAG
0650   DOCUMENT-FORMAT
0660   ENCLOSURES
0670   ATTACHED-NOTES
0680   CREATED-ID
0690   DATE-CREATED
0700   TIME-CREATED
0710   MODIFIED-ID
0720   DATE-MODIFIED
0730   TIME-MODIFIED
0740   MAILED-ID
0750   DATE-MAILED
0760   TIME-MAILED
0770   FORWARDED-ID
0780   DATE-FORWARDED
0790   TIME-FORWARDED
0800   REPLIED-ID
0810   DATE-REPLIED
0820   TIME-REPLIED
0830   EXPIRATION-DATE
0840   ARCHIVE-FLAG
0850 *
0860 IF  RETURN-CODE EQ 0
0870   WRITE  NOTITLE (SG=OFF ZP=OFF AD=L)
0880     'Description           ' DESCRIPTION(1) (AL=40)
0890                        / 24T DESCRIPTION(2) (AL=40)
0900                        / 24T DESCRIPTION(3) (AL=40)
0910                        / 24T DESCRIPTION(4) (AL=40)
0920   / 'Keywords              ' KEYWORDS(1)
```

```
0930                        / 24T KEYWORDS(2)
0940                        / 24T KEYWORDS(3)
0950                        / 24T KEYWORDS(4)
0960                        / 24T KEYWORDS(5)
0970                        / 24T KEYWORDS(6)
0980   / 'Private flag          ' PRIVATE-FLAG
0990   / 'Security flags        ' SECURITY-FLAGS
1000   / 'Formatting profile    ' FORMATTING-PROFILE
1010   / 'Pre-format procedures ' PRE-FORMAT-PROCEDURES(1)
1020                        / 24T PRE-FORMAT-PROCEDURES(2)
1030                        / 24T PRE-FORMAT-PROCEDURES(3)
1040                        / 24T PRE-FORMAT-PROCEDURES(4)
1050   / 'Post-format procedures' POST-FORMAT-PROCEDURES(1)
1060                        / 24T POST-FORMAT-PROCEDURES(2)
1070                        / 24T POST-FORMAT-PROCEDURES(3)
1080                        / 24T POST-FORMAT-PROCEDURES(4)
1090   / 'Folder name           ' FOLDER-NAME
1100   / 'File name             ' FILE-NAME
1110 *
1120   WRITE  NOTITLE (SG=OFF ZP=OFF AD=L)
1130   / 'TRS document flag     ' TRS-DOCUMENT-FLAG
1140   / 'Document format       ' DOCUMENT-FORMAT
1150   / 'Enclosures            ' ENCLOSURES
1160   / 'Attached notes        ' ATTACHED-NOTES
1170   / 'Created ID            ' CREATED-ID
1180   / 'Date created          ' DATE-CREATED
1190   / 'Time created          ' TIME-CREATED
1200   / 'Modified ID           ' MODIFIED-ID
1210   / 'Date modified         ' DATE-MODIFIED
1220   / 'Time modified         ' TIME-MODIFIED
1230   / 'Mailed ID             ' MAILED-ID
1240   / 'Date mailed           ' DATE-MAILED
1250   / 'Time mailed           ' TIME-MAILED
1260   / 'Forwarded ID          ' FORWARDED-ID
1270   / 'Date forwarded        ' DATE-FORWARDED
1280   / 'Time forwarded        ' TIME-FORWARDED
1290   / 'Replied ID            ' REPLIED-ID
1300   / 'Date replied          ' DATE-REPLIED
1310   / 'Time replied          ' TIME-REPLIED
1320   / 'Expiration date       ' EXPIRATION-DATE
1330   / 'Archive flag          ' ARCHIVE-FLAG
1340 ELSE
1350   WRITE  'Return code ' RETURN-CODE
1360 END-IF
1370 *
1380 END
```

Z-IN11U1

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Update the document information.

Parameters which are not completed in the parameter list (except the Expiration-date) are deleted from the document information. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram. You can invoke Z-IN11G2 prior to this subprogram to obtain the current values.

If the parameter Expiration-date is 0 (zero), the expiration date is not updated (i.e. the previously defined value will still be used).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document information is to be updated.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document for which you want to update the document information. Need not be specified, if the first line of the Description is specified. Either Document-name or ISN, not both.
ISN	P8	R*	X	The ISN of the document for which you want to update the document information. Input: either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Description	A60/1:4	O		A brief description for the document. If you do not specify a Document-name, you must specify a Description.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Private-flag	A1	O		If marked, the document is a private object.
Security-flags	A4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9.
Formatting-profile	A32	O		The name of the formatting profile.
Pre-format-procedures	A32/1:4	O		The names of the pre-formatting procedures.
Post-format-procedures	A32/1:4	O		The names of the post-formatting procedures.
Expiration-date	N8	O		The expiration date of the document. Format yyyymmdd. The date you specify is checked against the default value ("Days until Expiration") specified by the system administrator. The expiration date must not be lower than the sum of the current date and the default value.
Archive-flag	A1	O		If marked, the document is stored on some other medium (e.g. on tape) when the expiration date is reached.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
16	Document is locked - editing was not completed
51	Invalid name
53	Requested object does not exist
54	At least one keyword was invalid
62	Invalid date format
70	The security levels must be numeric
71	Invalid pre-formatting procedure name
72	Invalid post-formatting procedure name
81	Invalid formatting profile name
90	Invalid expiration date
91	The security levels must not be higher than in profile

Subprograms

Z-120
Z-122
Z-123
Z-128
Z-147
Z-175
Z-1200&0

Z-IN11UX

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Update the document information.

This subprogram is the same as Z-IN11U1 with the one exception that the parameter ISN uses the format P10.

Parameters which are not completed in the parameter list (except the Expiration-date) are deleted from the document information. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram. You can invoke Z-IN11GX prior to this subprogram to obtain the current values.

If the parameter Expiration-date is 0 (zero), the expiration date is not updated (i.e. the previously defined value will still be used).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document information is to be updated.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document for which you want to update the document information. Need not be specified, if the first line of the Description is specified. Either Document-name or ISN, not both.
ISN	P10	R*	X	The ISN of the document for which you want to update the document information. Input: either ISN or Document-name, not both. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
Description	A60/1:4	O		A brief description for the document. If you do not specify a Document-name, you must specify a Description.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Private-flag	A1	O		If marked, the document is a private object.
Security-flags	A4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9.
Formatting-profile	A32	O		The name of the formatting profile.
Pre-format-procedures	A32/1:4	O		The names of the pre-formatting procedures.
Post-format-procedures	A32/1:4	O		The names of the post-formatting procedures.
Expiration-date	N8	O		The expiration date of the document. Format yyyymmdd. The date you specify is checked against the default value ("Days until Expiration") specified by the system administrator. The expiration date must not be lower than the sum of the current date and the default value.
Archive-flag	A1	O		If marked, the document is stored on some other medium (e.g. on tape) when the expiration date is reached.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
16	Document is locked - editing was not completed
51	Invalid name
53	Requested object does not exist
54	At least one keyword was invalid
62	Invalid date format
70	The security levels must be numeric
71	Invalid pre-formatting procedure name
72	Invalid post-formatting procedure name
81	Invalid formatting profile name
90	Invalid expiration date
91	The security levels must not be higher than in profile

Subprograms

Z-120
Z-122
Z-123
Z-128
Z-147
Z-175
Z-1200&0

Example

```
0010 *
0020 * Example program to update the document information.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE                (N2)
0070 1 CABINET                    (A8)
0080 1 PASSWORD                   (A8)
0090 1 DOCUMENT-NAME              (A32)
0100 1 ISN                        (P10)
0110 1 DESCRIPTION                (A60/1:4)
```

```
0120 1 KEYWORDS                   (A15/1:6)
0130 1 PRIVATE-FLAG               (A1)
0140 1 SECURITY-FLAGS             (A4)
0150 1 FORMATTING-PROFILE         (A32)
0160 1 PRE-FORMAT-PROCEDURES      (A32/1:4)
0170 1 POST-FORMAT-PROCEDURES     (A32/1:4)
0180 1 EXPIRATION-DATE            (N8)
0190 1 ARCHIVE-FLAG               (A1)
0200 *
0210 END-DEFINE
0220 *
0230 RESET RETURN-CODE
0240 MOVE 'CABINET'  TO CABINET
0250 MOVE 'PASSWORD' TO PASSWORD
0260 MOVE 1234567890 TO ISN
0270 *
0280 MOVE 'Example - Description 1.' TO DESCRIPTION(1)
0290 MOVE 'Doc. description 2.'      TO DESCRIPTION(2)
0300 MOVE 'Doc. description 3.'      TO DESCRIPTION(3)
0310 MOVE 'Doc. description 4.'      TO DESCRIPTION(4)
0320 MOVE 'Key 1'                    TO KEYWORDS(1)
0330 MOVE 'Key 2'                    TO KEYWORDS(2)
0340 MOVE 'Key 3'                    TO KEYWORDS(3)
0350 MOVE 'Key 4'                    TO KEYWORDS(4)
0360 MOVE 'Key 5'                    TO KEYWORDS(5)
0370 MOVE 'Key 6'                    TO KEYWORDS(6)
0380 MOVE 'X'                        TO PRIVATE-FLAG
0390 MOVE '6666'                     TO SECURITY-FLAGS
0400 MOVE 20010807                   TO EXPIRATION-DATE
0410 MOVE 'X'                        TO ARCHIVE-FLAG
0420 *
0430 CALLNAT 'Z-IN11UX'
0440   RETURN-CODE
0450   CABINET
0460   PASSWORD
0470   DOCUMENT-NAME
0480   ISN
0490   DESCRIPTION(*)
0500   KEYWORDS(*)
0510   PRIVATE-FLAG
0520   SECURITY-FLAGS
0530   FORMATTING-PROFILE
0540   PRE-FORMAT-PROCEDURES(*)
0550   POST-FORMAT-PROCEDURES(*)
0560   EXPIRATION-DATE
0570   ARCHIVE-FLAG
0580 *
0590 IF  RETURN-CODE EQ 0
0600   WRITE 'Document was updated'
0610 ELSE
0620   WRITE 'Return code ' RETURN-CODE
0630 END-IF
0640 *
0650 END
```

Z-INBKT

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return the number of items which are currently stored in the five files of the Inbasket.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet for which you want to return the number of Inbasket items.
Password	A8	R		The password of the above cabinet.
New-phone-messages	P8		X	The number of items in the file Phone.
New-mail-items	P8		X	The number of items in the file New.
New-invitations	P8		X	The number of items in the file Invitations.
Opened-mail-items	P8		X	The number of items in the file Opened.
Postponed-mail-items	P8		X	The number of items in the file Postponed.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
55	Requested folder/file does not exist

Subprograms

Z-110
Z-120
Z-122
Z-123
Z-175
Z-1200&0

Z-INF13

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return information about a specific folder or file. This subprogram also offers the possibility to modify the keywords and description of a folder or file.

To return information about a specific folder, you must specify either the Folder-name or the ISN of the folder. You must not specify both.

To return information about a specific file, you must specify either the names (Folder-name and File-name) or the ISN of the file. You must not specify both.

When you specify the value U in the parameter Command, you can define new keywords and a new description and then return the folder/file information. When you do not specify a keyword, all previously defined keywords are deleted. When you specify at least one keyword, all previously defined keywords are deleted. Thus, to retain the existing keywords, you must specify them once more.

When you specify the value R in the parameter Command, the folder/file information is returned. You are not able to define new keywords or a new description. Existing keywords are not deleted.

When you specify a value lower than 1 in the parameter Items, the number of items in the folder or file is not returned.

When you specify a value greater than or equal to 1 in the parameter Items, you determine an upper limit. In this case, the parameter Items returns the number of items that are stored in the folder or file. If the number of items is greater than the upper limit you specified, the value defined in the parameter Items is returned with the notation "+1" (for example, when 300 has been defined in the parameter Items, "300 +1" is returned).

The returned date and time values are based on GMT.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the folder for which you want to return information.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	R*	X	Input: either the name of the folder for which you want to return information or its ISN, not both.
File-name	A15	O	X	Input: either the name of the file within the above folder for which you want to return information or its ISN, not both.
ISN	P10	R*	X	Input: the ISN of the folder or file for which you want to return information. For a folder: either ISN or Folder-name, not both. For a file, either ISN or File-name, not both.
Command	A1	R		R=return folder/file information, U=update keywords and return folder/file information.
Keywords	A15/1:6	O	X	You can only specify keywords when you specify the value U in the parameter Command. You can define up to 6 new keywords. A keyword must not contain an asterisk (*). Keywords are helpful when you search for an object.
Description	A60/1:2	O	X	A brief description for the folder or file. For a file, the description has only one line and can be up to 40 characters long (A40).
Items	P10	O	X	See the description above.
Date-created	P8		X	The date when the folder was created.
Time-created	P4		X	The time when the folder was created.
Created-ID	A8		X	The user ID of the person who has created the folder.
Date-modified	P8		X	The date when the folder was last modified.
Time-modified	P4		X	The time when the folder was last modified.
Modified-ID	A8		X	The user ID of the person who has last modified the folder.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
54	At least one keyword was invalid
90	An invalid value has been specified in the parameter Command

Subprograms

Z-120
Z-122
Z-175
Z-1200&0

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 *
0050 1 RETURN-CODE              (N2)
0060 1 CABINET                  (A8)
0070 1 PASSWORD                 (A8)
0080 1 FOLDER-NAME              (A15)
0090 1 FILE-NAME                (A15)
0100 1 ISN                      (P10)
0110 1 COMMAND                  (A1)
0120 1 KEYWORDS                 (A15/1:6)
0130 1 DESCRIPTION              (A60/1:2)
0140 1 ITEMS                    (P10)
0150 1 DATE-CREATED             (P8)
0160 1 TIME-CREATED             (P4)
0170 1 CREATED-ID               (A8)
0180 1 DATE-MODIFIED            (P8)
0190 1 TIME-MODIFIED            (P4)
0200 1 MODIFIED-ID              (A8)
0210 1 #READ-ITEM               (A1)  INIT <'R'>
0220 1 #UPDATE-ITEM             (A1)  INIT <'U'>
0230 1 #LIMIT                   (P10) INIT <300>
0240 1 #ITEMS                   (A4)
0250 1 #UPDATE                  (A1)
0260 *
0270 END-DEFINE
```

```
0280 *
0290 INPUT (IP=OFF AD=A'_')
0300         'Cabinet       ' CABINET
0310      /  'Password      ' PASSWORD (AD=N)
0320      /  'Folder        ' FOLDER-NAME
0330      /  'File          ' FILE-NAME
0340 *
0350 * Read folder-file
0360 *
0370 MOVE #READ-ITEM                        TO COMMAND
0380 MOVE #LIMIT                            TO ITEMS
0390 PERFORM INFO-FOLDER
0400 IF   RETURN-CODE EQ 0
0410      IF   ITEMS GT #LIMIT
0420           COMPRESS '>' #LIMIT        INTO #ITEMS LEAVING NO SPACE
0430      ELSE
0440           MOVE ITEMS                   TO #ITEMS
0450      END-IF
0460      INPUT NO ERASE (AD=M'_' IP=OFF)
0470           // 15X FOLDER-NAME (AD=O)
0480           /  15X FILE-NAME (AD=O)
0490           // 'Nr of items   ' #ITEMS (AD=O)
0500           /  'Keywords      ' KEYWORDS (1:3)
0510           /  15X KEYWORDS (4:6)
0520           /  'Description   ' DESCRIPTION (1)
0530           // 'Mark to update' #UPDATE
0540 * Update keywords and description
0550 *
0560      IF   #UPDATE NE ' '
0570           MOVE #UPDATE-ITEM            TO COMMAND
0580           RESET                           ITEMS
0590           PERFORM INFO-FOLDER
0600           IF   RETURN-CODE EQ 0
0610                WRITE 'Information was updated'
0620           ELSE
0630                WRITE 'Information cannot be updated:' RETURN-CODE
0640           END-IF
0650      END-IF
0660 ELSE
0670      WRITE 'Folder or file cannot be accessed:' RETURN-CODE
0680 END-IF
0690 *
0700 DEFINE SUBROUTINE INFO-FOLDER
0710 *
0720 IF   ISN NE 0
0730      RESET                                FOLDER-NAME FILE-NAME
0740 END-IF
0750 CALLNAT 'Z-INF13'
0760      RETURN-CODE
0770      CABINET
0780      PASSWORD
0790      FOLDER-NAME
0800      FILE-NAME
0810      ISN
0820      COMMAND
0830      KEYWORDS (*)
0840      DESCRIPTION (*)
0850      ITEMS
0860      DATE-CREATED
0870      TIME-CREATED
0880      CREATED-ID
0890      DATE-MODIFIED
```

```
0900      TIME-MODIFIED
0910      MODIFIED-ID
0920 *
0930 END-SUBROUTINE
0940 END
```

Z-INFPR

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return the print defaults of a cabinet.

When you do not specify the parameter Cabinet (i.e. if the only parameter you specify is Logical-printer-name), this subprogram returns the printer destination (TID or LU) for the printer and the associated printer profile.

When you specify the parameter Cabinet, this subprogram returns the print defaults for the cabinet.

Note:
When you specifiy both parameters, your specification for Logical-printer-name is ignored and the print defaults are returned.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R*		The name of the cabinet for which the print defaults are to be returned. If you want to return the printer destination (TID or LU), this parameter must be blank.
Logical-printer-name	A32	R*	X	The name of the printer.
TID/LU	A8		X	The printer destination for the specified printer. Only returned when Cabinet is blank.
Printer-profile	A32		X	The name of the printer profile to be used when an object is printed.
Formatting-profile	A32		X	The name of the profile to be used when a document is to be formatted.
Page-length	N4		X	The number of lines per page.
Page-width	N4		X	The number of characters per line.
Con-form	A1		X	If not marked, the user cannot use Con-form. In this case, the user cannot use the commands FORMAT and OUTPUT, and cannot ADD, DISPLAY or MODIFY a printer profile.
Print-banner	A1		X	If marked, the "Info" screen information is printed.
Print-notes	A1		X	If marked, attached notes, cover notes and enclosures are printed.
Print-address	A1		X	If marked, the addressee list of a mail item is printed.

Return Codes

00	Success
02	Invalid cabinet name
91	Printer association not found

Subprograms

None

Z-INFPRA

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the print defaults of a cabinet.

This subprogram is the same as Z-INFPR with the exception that it also returns the parameters Left-margin and Wrap-printed-line.

When you do not specify the parameter Cabinet (i.e. if the only parameter you specify is Logical-printer-name), this subprogram returns the printer destination (TID or LU) for the printer and the associated printer profile.

When you specify the parameter Cabinet, this subprogram returns the print defaults for the cabinet.

Note:
When you specify both parameters, your specification for Logical-printer-name is ignored and the print defaults are returned.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R*		The name of the cabinet for which the print defaults are to be returned. If you want to return the printer destination (TID or LU), this parameter must be blank.
Logical-printer-name	A32	R*	X	The name of the printer.
TID/LU	A8		X	The printer destination for the specified printer. Only returned when Cabinet is blank.
Printer-profile	A32		X	The name of the printer profile to be used when an object is printed.
Formatting-profile	A32		X	The name of the profile to be used when a document is to be formatted.
Page-length	N4		X	The number of lines per page.
Page-width	N4		X	The number of characters per line.
Con-form	A1		X	If not marked, the user cannot use Con-form. In this case, the user cannot use the commands FORMAT and OUTPUT, and cannot ADD, DISPLAY or MODIFY a printer profile.
Print-banner	A1		X	If marked, the "Info" screen information is printed.
Print-notes	A1		X	If marked, attached notes, cover notes and enclosures are printed.
Print-address	A1		X	If marked, the addressee list of a mail item is printed.
Left-margin	N2		X	The number of blank spaces at the beginning of each printed line. Only returned if you specify the parameter Cabinet. Not returned for Logical-printer-name.
Wrap-printed-line	A1		X	If marked, printed lines are wrapped. If not marked, they are truncated. Only returned if you specify the parameter Cabinet. Not returned for Logical-printer-name.

Return Codes

00	Success
02	Invalid cabinet name
91	Printer association not found

Subprograms

None

Example

```
DEFINE DATA
LOCAL
*
1 RETURN-CODE          (N2)
1 CABINET              (A8)
1 LOGICAL-PRINTER-NAME (A32)
1 TID/LU               (A8)
1 PRINTER-PROFILE      (A32)
1 FORMATTING-PROFILE   (A32)
1 PAGE-LENGTH          (N4)
1 PAGE-WIDTH           (N4)
1 CON-FORM             (A1)
1 PRINT-BANNER         (A1)
1 PRINT-NOTES          (A1)
1 PRINT-ADDRESS        (A1)
1 LEFT-MARGIN          (N2)
1 WRAP-PRINTED-LINE    (A1)
*
END-DEFINE
*
MOVE 'Cabinet' TO CABINET
*
CALLNAT 'Z-INFPRA'
  RETURN-CODE
  CABINET
  LOGICAL-PRINTER-NAME
  TID/LU
  PRINTER-PROFILE
  FORMATTING-PROFILE
  PAGE-LENGTH
  PAGE-WIDTH
  CON-FORM
  PRINT-BANNER
  PRINT-NOTES
  PRINT-ADDRESS
  LEFT-MARGIN
  WRAP-PRINTED-LINE
*
WRITE
  '='    CABINET /
  '='    TID/LU /
  '='    LOGICAL-PRINTER-NAME /
  '='    PRINTER-PROFILE /
  '='    FORMATTING-PROFILE /
  '='    PAGE-LENGTH /
  '='    PAGE-WIDTH /
  '='    CON-FORM /
  '='    PRINT-BANNER /
  '='    PRINT-NOTES /
  '='    PRINT-ADDRESS /
  '='    LEFT-MARGIN /
  '='    WRAP-PRINTED-LINE //
*
IF RETURN-CODE NE 0
```

```
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-INOBG

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return information about a specific user-defined object.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the user-defined object is stored.
Password	A8	R		The password of the above cabinet.
Object-number	N2	R		The number of the user-defined object
Object-name	A32	R*		The name of the user-defined object. Either Object-name or ISN, bot both.
ISN	P8	R*	X	The ISN of the user-defined object. Input: either ISN or Object-name, not both.
Object-format	A1		X	Can be any user-defined object format. If the object is a document, this can also be a Con-nect document format. See **Document Formats**.
Folder-name	A15		X	The folder in which the user-defined object is stored.
File-name	A15		X	The file within the above folder in which the user-defined object is stored.
Description	A60/1:4		X	The description of the user-defined object.
User-data	A60/1:4		X	Can be any information included by the user.
Private-flag	A1		X	If marked, the user-defined object is a private object.
Security-flags	A4		X	The security levels for Read, Modify, Copy and Print. Values 0 to 9.
Created-ID	A8		X	The user ID of the person who has created the user-defined object.
Date-created	N8		X	The date when the user-defined object was created.
Time-created	N4		X	The time when the user-defined object was created.
Modified-ID	A8		X	The user ID of the person who has last modified the user-defined object.
Date-modified	N8		X	The date when the user-defined object was last modified.
Time-modified	N4		X	The time when the user-defined object was last modified.
Mailed-ID	A8		X	The user ID of the person who has sent the user-defined object to this cabinet.
Date-mailed	N8		X	The date when the user-defined object was mailed.
Time-mailed	N4		X	The time when the user-defined object was mailed.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
13	Invalid object number
51	Invalid name
53	Requested object does not exist

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-1200&0

Z-INOBU

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Update information for a specific user-defined object.

Parameters which are not completed in the parameter list are updated to blanks. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the user-defined object is stored.
Password	A8	R		The password of the above cabinet.
Object-number	N2	R		The number of the user-defined object
Object-name	A32	R*		The name of the user-defined object. Either Object-name or ISN, not both.
ISN	P8	R*	X	The ISN of the user-defined object. Input: either ISN or Object-name, not both.
Description	A60/1:4	O		A brief description for the user-defined object.
User-data	A60/1:4	O		Can be any information included by the user.
Object-format	A1	O		Can be any user-defined object format. If the object is a document, this can also be a Con-nect document format. See **Document Formats**.
Private-flag	A1	O		If marked, the user-defined object is a private object.
Security-flags	A1/1:4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9. The four values must be numeric.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
13	Invalid object number
51	Invalid name
53	Requested object does not exist (has not been defined by administrator)
61	Invalid security flag

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Z-INVX

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return information about an invitation to a meeting or a cancelation message that is stored in the Inbasket file Invitations.

Statistics information that is usually invoked via the calendar (when issuing the INFO command with the meeting) is also returned. The number of pending invitations can be calculated by subtracting the numbers that are returned for Accepted-number, Declined-number and Stopped-number from the number returned for Read-by-number.

The time zone is always GMT. Other timezones are not considered.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the invitation or cancelation message.
Password	A8	R		The password of the above cabinet.
Folder-sequence	N1	O		The sequence in which the folder or file contents is to be returned. 1=ascending by date, 2=descending by date. Default: 1.
Start-value	A32	O		Date (yyyymmdd) for ascending or descending date order.
Number	N2	O		The maximum number of objects that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Invitation-table (20)				
Subject	A20		X	The subject of the invitation or cancelation message.
Version	N5		X	The version number of the invitation or cancelation message.

Parameter	Format	In	Out	Remarks
Invitation-type	N1		X	1=invitation, 2=modified invitation, 3=cancelation message.
Invitation-ISN	P10		X	The ISN of the invitation or cancelation message.
Agenda	A1		X	If marked, an agenda has been attached to the invitation or cancelation message.
Mailed-date	A8		X	The date when the originator has sent the invitation or cancelation message. Format yyyymmdd.
Mailed-time	A4		X	The time when the originator has sent the invitation or cancelation message. Format hhmm.
Start-date	A8		X	The starting date of the meeting. Format yyyymmdd.
Start-time	A4		X	The starting time of the meeting. Format hhmm.
End-date	A8		X	The ending date of the meeting. Format yyyymmdd.
End-time	A4		X	The ending time of the meeting. Format hhmm.
Separate-daily-entries	A1		X	If marked, the meeting occupies only the specified time range for each day. If not marked, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.
Sent-by	A20		X	The name of the originator.
Sent-to-number	N7		X	The number of attendees to which the invitation or cancelation message has been sent.
Read-by-number	N7		X	The number of attendees who have already read the invitation or cancelation message.
Accepted-number	N7		X	The number of attendees who accepted the meeting.
Declined-number	N7		X	The number of attendees who declined the meeting but still receive any modifications made to the invitation.
Stopped-number	N7		X	The number of attendees who declined the meeting and do not receive any modifications made to the invitation.
Work-parameter	A49			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
24	Security violation
77	End of list

Subprograms

Z-DIS13A

See also the list of subprograms for Z-DIS13A.

Example

```
* Get information about an invitation
*
DEFINE DATA
LOCAL
*
1 RETURN-CODE              (N2)
1 CABINET                  (A8)
1 PASSWORD                 (A8)
1 FOLDER-SEQUENCE          (N1)
1 START-VALUE              (A32)
1 REDEFINE START-VALUE
  2 START-READ-DATE        (A8)
1 NUMBER                   (N2)
1 INVITATION-TABLE         (20)
  2 SUBJECT                (A20)
  2 VERSION                (N5)
  2 INVITATION-TYPE        (N1)
  2 INVITATION-ISN         (P10)
  2 AGENDA                 (A1)
  2 MAILED-DATE            (A8)
  2 MAILED-TIME            (A4)
  2 START-DATE             (A8)
  2 START-TIME             (A4)
  2 END-DATE               (A8)
  2 END-TIME               (A4)
  2 SEPARATE-DAILY-ENTRIES (A1)
  2 SENT-BY                (A20)
  2 SENT-TO-NUMBER         (N7)
  2 READ-BY-NUMBER         (N7)
  2 ACCEPTED-NUMBER        (N7)
  2 DECLINED-NUMBER        (N7)
  2 STOPPED-NUMBER         (N7)
1 WORK                     (A49)
1 #INX                     (N2)
END-DEFINE
*
RESET WORK
MOVE 'Cabinet'  TO CABINET
```

```
MOVE 'Password' TO PASSWORD
MOVE 1          TO FOLDER-SEQUENCE
MOVE ' '        TO START-VALUE
MOVE 12         TO NUMBER
*
REPEAT UNTIL RETURN-CODE NE 0
  RESET INVITATION-TABLE(*)
  CALLNAT 'Z-INVX'
    RETURN-CODE
    CABINET
    PASSWORD
    FOLDER-SEQUENCE
    START-VALUE
    NUMBER
    INVITATION-TABLE(*)
    WORK
*
  IF INVITATION-ISN(1) NE 0
    FOR #INX 1 TO NUMBER
      IF INVITATION-ISN(#INX) NE 0
        NEWPAGE
        WRITE '(' #INX ')' /
          'INVITATION-ISN   :'   INVITATION-ISN(#INX)   /
          'SUBJECT          :'   SUBJECT(#INX)(AL=20)   /
          'VERSION          :'   VERSION(#INX)          /
          'INVITATATION-TYPE:'   TYPE-OF-INVITATION(#INX) /
          'AGENDA           :'   AGENDA (#INX)          /
          'MAILED-DATE      :'   MAILED-DATE (#INX)     /
          'MAILED-TIME      :'   MAILED-TIME (#INX)     /
          'START-DATE       :'   START-DATE (#INX)      /
          'START-TIME       :'   START-TIME (#INX)      /
          'END-DATE         :'   END-DATE (#INX)        /
          'END-TIME         :'   END-TIME (#INX)        /
          'DAILY-ENTRIES    :'   SEPARATE-DAILY-ENTRIES (#INX) /
          'SENT-BY          :'   SENT-BY (#INX)         /
          'SENT-TO-NUMBER   :'   SENT-TO-NUMBER (#INX)  /
          'READ-BY-NUMBER   :'   READ-BY-NUMBER (#INX)  /
          'ACCEPTED-NUMBER  :'   ACCEPTED-NUMBER (#INX) /
          'DECLINED-NUMBER  :'   DECLINED-NUMBER (#INX) /
          'STOPPED-NUMBER   :'   STOPPED-NUMBER (#INX) /
      END-IF
    END-FOR
  ELSE
    WRITE 'No items found' /
  END-IF
END-REPEAT
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-LOGS

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return information about unsuccessful logon attempts to a cabinet.

The Cabinet-table returns only those cabinets for which an unsuccessful logon attempt occurred.

This subprogram can be invoked by different types of users. Depending on the type of user, the following applies:

- **Administrator**
  Can return all unsuccessful logon attempts for all cabinets.
- **Any Other User**
  Can only return the unsuccessful logon attempts for their cabinets. In this case, the parameters Cabinet and Logon-by-cabinet-name must be the same. Otherwise, return code 15 is issued.

The timezone is always GMT. Other timezones are not considered.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		Any user can invoke this subprogram.
Password	A8	R		The password of the above cabinet.
Logon-by-cabinet-name	A8	R*		The name of the cabinet that is to be checked for unsuccessful logon attempts to other cabinets. Either Logon-by-cabinet-name or Logon-by-cabinet-ISN, not both.
Logon-by-cabinet-ISN	P10	R*		The ISN of the cabinet that is to be checked for unsuccessful logon attempts to other cabinets. Either Logon-by-cabinet-ISN or Logon-by-cabinet-name, not both.
Logon-by-cabinet-status	N1		X	The status of the cabinet from which unsuccessful logon attempts occurred. 1 = the cabinet is locked, 0 = the cabinet is not locked.
Lock-default	N1		X	The number of unsuccessful logon attempts (1-9) after which the cabinet is locked. 0 means that unsuccessful logon attempts are ignored.
Logon-to-cabinet-start-name	A8	O		Start value. The name of the cabinet that is to be checked for unsuccessful logon attempts from other cabinets. If you do not specify a start value, a list of all cabinets for which unsuccessful logon attempts occurred is returned.
Number	N2	O		The maximum number of cabinets that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Cabinet-table (20)				
Logon-to-cabinet-name	A8		X	The name of the cabinet.
Logon-attempts	N4		X	The number of unsuccessful logon attempts. The value is taken from the system file (1-9999).
Logon-attempt-date	N8		X	The date of the last unsuccessful logon attempt.
Logon-attempt-time	N4		X	The time of the last unsuccessful logon attempt.
Work-parameter	A8			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN not found
08	Supply either Logon-by-cabinet-ISN or Logon-by-cabinet-name, not both
09	ISN does not point to correct object
15	Invalid administrator status
77	End of list
91	Either Logon-by-cabinet-name or Logon-by-cabinet-ISN must be supplied
92	Logon-by-cabinet-name is not valid

Subprograms

Z-120
Z-122
Z-123
Z-705
Z-1200&0

Example

```
0010 *
0020 * Example program to get user log information about unsuccessful
0030 * logon attempts from a specific cabinet to others cabinets
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE                (N2)
0080 1 CABINET                    (A8)
0090 1 PASSWORD                   (A8)
0100 1 LOGON-BY-CABINET-NAME      (A8)
0110 1 LOGON-BY-CABINET-ISN       (P10)
0120 1 LOGON-BY-CABINET-STATUS    (N1)
0130 1 LOCK-DEFAULT               (N1)
0140 1 LOGON-TO-CABINET-START-NAME(A8)
0150 1 NUMBER                     (N2)
0160 1 CABINET-TABLE (20)
0170   2 LOGON-TO-CABINET-NAME    (A8)
0180   2 LOGON-ATTEMPTS           (N4)
0190   2 LOGON-ATTEMPT-DATE       (N8)
0200   2 LOGON-ATTEMPT-TIME       (N4)
0210 1 WORK-PARAMETER             (A8)
0220 *
0230 1 #INX                       (N2)
0240 1 #LAST-DATE                 (N8)
0250 1 REDEFINE #LAST-DATE
0260   2 #LAST-YEAR               (A4)
```

```
0270   2 #LAST-MONTH              (A2)
0280   2 #LAST-DAY                (A2)
0290 1 #DATE                      (A10)
0300 1 #LAST-TIME                 (N4)
0310 1 REDEFINE #LAST-TIME
0320   2 #LAST-HOUR               (A2)
0330   2 #LAST-MIN                (A2)
0340 1 #TIME                      (A5)
0350 *
0360 END-DEFINE
0370 *
0380 MOVE 'CABINET'  TO CABINET
0390 MOVE 'PASSWORD' TO PASSWORD
0400 MOVE 'CABNAME'  TO LOGON-BY-CABINET-NAME
0410 MOVE 20         TO NUMBER
0420 RESET RETURN-CODE LOGON-BY-CABINET-ISN
0430 *
0440 REPEAT UNTIL RETURN-CODE NE 0
0450   CALLNAT 'Z-LOGS'  RETURN-CODE
0460                     CABINET
0470                     PASSWORD
0480                     LOGON-BY-CABINET-NAME
0490                     LOGON-BY-CABINET-ISN
0500                     LOGON-BY-CABINET-STATUS
0510                     LOCK-DEFAULT
0520                     LOGON-TO-CABINET-START-NAME
0530                     NUMBER
0540                     CABINET-TABLE(*)
0550                     WORK-PARAMETER
0560 *
0570   IF RETURN-CODE EQ 0  OR  RETURN-CODE EQ 77
0580     FOR #INX 1 TO NUMBER
0590       IF LOGON-TO-CABINET-NAME(#INX) EQ ' '
0600         ESCAPE BOTTOM
0610       END-IF
0620 *
0630       NEWPAGE
0640       WRITE NOTITLE NOHDR (SG=OFF ZP=OFF AD=L)            / /
0650             'By cabinet name    ' LOGON-BY-CABINET-NAME (AD=IO) /
0660 *
0670       IF LOGON-BY-CABINET-STATUS EQ 0
0680         WRITE 'Default lock number' LOCK-DEFAULT          /
0690       ELSE
0700         WRITE 'Cabinet' LOGON-BY-CABINET-NAME' is locked'  /
0710               'Default lock number' LOCK-DEFAULT          /
0720       END-IF
0730 *
0740       MOVE LOGON-ATTEMPT-DATE(#INX) TO #LAST-DATE
0750       COMPRESS #LAST-YEAR '-' #LAST-MONTH '-' #LAST-DAY
0760                                        INTO  #DATE  LEAVING NO SPACE
0770       MOVE LOGON-ATTEMPT-TIME(#INX) TO #LAST-TIME
0780       COMPRESS #LAST-HOUR ':' #LAST-MIN  INTO  #TIME  LEAVING NO SPACE
0790 *
0800       WRITE 'To cabinet name ' LOGON-TO-CABINET-NAME(#INX)/
0810             'Logon attempts  ' LOGON-ATTEMPTS(#INX)    /
0820             'Date of last attempt ' #DATE                  /
0830             'Time of last attempt ' #TIME                  / /
0840     END-FOR
0850   END-IF
0860 *
0870   IF RETURN-CODE NE 0
0880     WRITE 'Return code' RETURN-CODE (AD=IO)
```

```
0890   END-IF
0900 END-REPEAT
0910 *
0920 END
```

Z-MAILA

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Send an application, document, memo, menu, phone message, procedure, program, reference document or user-defined object.

Z-MAILA does not contain any forward or reply logic. It simply sends the specified item as normal mail. It does not validate the mail information for external addressees. External mail can only be sent using a nickname; in this case the physical address (i.e. telex number etc.) must be fully defined.

Z-MAILA can be used in conjunction with other API subprograms. The subprograms should be invoked in the following sequence:

1. Z-MLDFLT (to modify the send defaults and/or define suspended delivery for transport service items).
2. Z-MAILA.
3. Z-CNFIRM (if suspended delivery was defined for transport service items).

You can send an object to as many as 12 addressees. To mail the object to additional addressees, you can re-invoke this subprogram with no changes to the parameter list - except for the specification of further addressees and mail types.

When sending a memo, the parameters Addressees, Cover-note-text, Cabinet, Subject, and Object-number (using object number 11) are required; you must leave the parameters Object-name and Object-ISN blank.

When sending a phone message, the parameters Addressees, Cover-note-text, Cabinet, Subject, and Object-number (using object number -11) are required; you must leave the parameters Object-name and Object-ISN blank. When the phone message is sent, it is delivered to the addressee’s Inbasket file Phone. Sending a phone message in this manner does not use the "Send Phone Message" screen. Therefore, you must specify the necessary information such as the phone number and the caller’s name in the parameter Subject.

Different address types can be created using the same name (e.g. a user ID may coincide with a distribution list name). If the address type is not specified and addressees with the same name, but different address types are found, the system first tries to send to address type 33 (user ID) and then to 5 (cabinet). It does not check any other address types. For example, if the system locates an addressee with the specified name in address type 33, it is sent to this addressee. If not, the system tries to send to address type 5. If an addressee with the specified name is not found in either address types, return code 34 is

returned.

An Outbasket record is created for the object and then that record is copied for each of the addressee parameters. If the item is mailed, the parameter Object-ISN is set to the *ISN of the Outbasket record which was created, and the Object-name parameter is reset. If an addressee is not found, the return code is set to 21 and the ID is passed back to the calling program.

Z-MAILA creates an address list and performs limited security checking - i.e. validates the send level and the number of addressees, and validates the access to the sender’s cabinet and to the object.

When you send mail from a shared or public cabinet, your user ID is specified as the sender and not the ID of the cabinet from which the item was sent (this description does not apply when you send mail from a private or standalone cabinet).

When a value other than 0 is returned in the parameter Return-code, BACKOUT TRANSACTION is always issued.

When you send a memo or an object with a cover note, Z-MAILA automatically uses the source area defined with DEFINE PRINTER (1) OUTPUT ’SOURCE’.

When external mail items (e.g. SNADS) are created with this API subprogram, it is imperative that X-0INIT is called after Z-MAILA is executed. X-0INIT automatically invokes X-FZ, which is used to transmit external mail items onto the recipient nodes.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET. When you send a mail item to external addressees using the transport service, END TRANSACTION will occur even if the parameter Return-code is set to -1.
Addressees	A20/1:12	R	X	The names or user IDs of the addressees.
Address-type	N2/1:12	O		Must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 10=distribution list, 33=user ID, 70=last name, 74=external.
Mail-type	A1/1:12	O		O=original, C=copy, B=blindcopy, P=private mail. Default: O. In a shared or public cabinet, you must not specify mail type P.
Cabinet	A8	R		The cabinet from which the object is to be sent.
Password	A8	R		The password of the above cabinet.
Sender-name	A20			For internal use.
Object-number	N2	R		The type of object to be sent. Must be one of the following: 2=application, 11=document/memo, -11=phone message, 18=menu, 24=procedure, 26=program, 27=reference document, 80 to 99=user-defined object.
Object-name	A32	R*		The name of the object to be sent. Either Object-name or Object-ISN, not both. When sending a memo or phone message, this parameter must be empty.
Object-ISN	P8	R*	X	Input: The ISN of the object to be sent. Either Object-ISN or Object-name, not both. When sending a memo or phone message, this parameter must be empty. Output: The ISN of the new Outbasket record.
Cover-note-text	A76/1:16	O		When sending a memo, this parameter is required.
Subject	A60	R		The subject for the mail item.
Work-parameter	A128			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Invalid password
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to an object
21	Addressee not found
22	Can’t create spool-file entry
23	Sender cabinet ID not found
24	Security violation (wrong level for mailing)
25	More addressees than allowed for sender’s cabinet
26	Document-name was not found in sender’s cabinet
27	Cover note is required
28	Subject is required
29	Cover note could not be saved
33	Addressee not unique
34	Address type not found
91	This type of object cannot be mailed
92	Sending objects from the Inbasket or Wastebasket is not allowed
93	Parameter Object-ISN or Object-name cannot be specified with a phone message
94	Unable to create a transport service item

Subprograms

This list does not include the subprograms that are invoked by Z-CNFIRM.

Z-110
Z-120
Z-122
Z-123
Z-135
Z-145
Z-147
Z-155
Z-165
Z-175
Z-185
Z-190
Z-191A
Z-194
Z-197A
Z-200A
Z-201
Z-202
Z-205
Z-207
Z-241
Z-1200&0
Z-CNFIRM (only called if no other definition was made with Z-MLDFLT)

Z-MAILAX

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Send an application, document, memo, menu, phone message, procedure, program, reference document or user-defined object.

This subprogram is the same as Z-MAILA with the one exception that the parameter Object-ISN uses the format P10.

Z-MAILAX does not contain any forward or reply logic. It simply sends the specified item as normal mail. It does not validate the mail information for external addressees. External mail can only be sent using a nickname; in this case the physical address (i.e. telex number etc.) must be fully defined.

Z-MAILAX can be used in conjunction with other API subprograms. The subprograms should be invoked in the following sequence:

1. Z-MLDFLT (to modify the send defaults and/or define suspended delivery for transport service items).
2. Z-MAILAX.
3. Z-CNFIRM (if suspended delivery was defined for transport service items).

You can send an object to as many as 12 addressees. To mail the object to additional addressees, you can re-invoke this subprogram with no changes to the parameter list - except for the specification of further addressees and mail types.

When sending a memo, the parameters Addressees, Cover-note-text, Cabinet, Subject, and Object-number (using object number 11) are required; you must leave the parameters Object-name and Object-ISN blank.

When sending a phone message, the parameters Addressees, Cover-note-text, Cabinet, Subject, and Object-number (using object number -11) are required; you must leave the parameters Object-name and Object-ISN blank. When the phone message is sent, it is delivered to the addressee’s Inbasket file Phone. Sending a phone message in this manner does not use the "Send Phone Message" screen. Therefore, you must specify the necessary information such as the phone number and the caller’s name in the parameter Subject.

Different address types can be created using the same name (e.g. a user ID may coincide with a distribution list name). If the address type is not specified and addressees with the same name, but different address types are found, the system first tries to send to address type 33 (user ID) and then to 5 (cabinet). It does not check any other address types. For example, if the system locates an addressee with the specified name in address type 33, it is sent to this addressee. If not, the system tries to send to address type 5. If an addressee with the specified name is not found in either address types, return code 34 is returned.

An Outbasket record is created for the object and then that record is copied for each of the addressee parameters. If the item is mailed, the parameter Object-ISN is set to the *ISN of the Outbasket record which was created, and the Object-name parameter is reset. If an addressee is not found, the return code is set to 21 and the ID is passed back to the calling program.

Z-MAILAX creates an address list and performs limited security checking - i.e. validates the send level and the number of addressees, and validates the access to the sender’s cabinet and to the object.

When you send mail from a shared or public cabinet, your user ID is specified as the sender and not the ID of the cabinet from which the item was sent (this description does not apply when you send mail from a private or standalone cabinet).

When a value other than 0 is returned in the parameter Return-code, BACKOUT TRANSACTION is always issued.

When you send a memo or an object with a cover note, Z-MAILAX automatically uses the source area defined with DEFINE PRINTER (1) OUTPUT ’SOURCE’.

When external mail items (e.g. SNADS) are created with this API subprogram, it is imperative that X-0INIT is called after Z-MAILAX is executed. X-0INIT automatically invokes X-FZ, which is used to transmit external mail items onto the recipient nodes.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET. When you send a mail item to external addressees using the transport service, END TRANSACTION will occur even if the parameter Return-code is set to -1.
Addressees	A20/1:12	R	X	The names or user IDs of the addressees.
Address-type	N2/1:12	O		Must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 10=distribution list, 33=user ID, 70=last name, 74=external.
Mail-type	A1/1:12	O		O=original, C=copy, B=blindcopy, P=private mail. Default: O. In a shared or public cabinet, you must not specify mail type P.
Cabinet	A8	R		The cabinet from which the object is to be sent.
Password	A8	R		The password of the above cabinet.
Sender-name	A20			For internal use.
Object-number	N2	R		The type of object to be sent. Must be one of the following: 2=application, 11=document/memo, -11=phone message, 18=menu, 24=procedure, 26=program, 27=reference document, 80 to 99=user-defined object.
Object-name	A32	R*		The name of the object to be sent. Either Object-name or Object-ISN, not both. When sending a memo or phone message, this parameter must be empty.
Object-ISN	P10	R*	X	Input: The ISN of the object to be sent. Either Object-ISN or Object-name, not both. When sending a memo or phone message, this parameter must be empty. Output: The ISN of the new Outbasket record.
Cover-note-text	A76/1:16	O		When sending a memo, this parameter is required.
Subject	A60	R		The subject for the mail item.
Work-parameter	A128			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Invalid password
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to an object
21	Addressee not found
22	Can’t create spool-file entry
23	Sender cabinet ID not found
24	Security violation (wrong level for mailing)
25	More addressees than allowed for sender’s cabinet
26	Document-name was not found in sender’s cabinet
27	Cover note is required
28	Subject is required
29	Cover note could not be saved
33	Addressee not unique
34	Address type not found
91	This type of object cannot be mailed
92	Sending objects from the Inbasket or Wastebasket is not allowed
93	Parameter Object-ISN or Object-name cannot be specified with a phone message
94	Unable to create a transport service item

Subprograms

This list does not include the subprograms that are invoked by Z-CNFIRM.

Z-110
Z-120
Z-122
Z-123
Z-135
Z-145
Z-147
Z-155
Z-165
Z-175
Z-185

Z-190
Z-191A
Z-194
Z-197A
Z-200A
Z-201
Z-202
Z-205
Z-207
Z-241
Z-1200&0
Z-CNFIRM (only called if no other definition was made with Z-MLDFLT)

Example

```
0010 *
0020 * Example program to send an application, document, memo, menu,
0030 * phone message, procedure, program, reference document or
0040 * user-defined object.
0050 *
0060 DEFINE DATA
0070 LOCAL
0080 1 RETURN-CODE           (N2)
0090 1 ADDRESSEES            (A20/1:12)
0100 1 ADDRESS-TYPE          (N2/1:12)
0110 1 MAIL-TYPE             (A1/1:12)
0120 1 CABINET               (A8)
0130 1 PASSWORD              (A8)
0140 1 SENDER-NAME           (A20)
0150 1 OBJECT-NUMBER         (N2)
0160 1 OBJECT-NAME           (A32)
0170 1 OBJECT-ISN            (P10)
0180 1 COVER-NOTE-TEXT       (A76/1:16)
0190 1 SUBJECT               (A60)
0200 1 WORK-PARAMETER        (A128)
0210 *
0220 END-DEFINE
0230 *
0240 RESET RETURN-CODE
0250 MOVE ’User ID ’ TO ADDRESSEES(1)
0260 MOVE 33         TO ADDRESS-TYPE(1)
0270 MOVE ’O’        TO MAIL-TYPE(1)
0280 MOVE ’Nickname’ TO ADDRESSEES(2)
0290 MOVE 01         TO ADDRESS-TYPE(2)
0300 MOVE ’C’        TO MAIL-TYPE(2)
0310 *
0320 MOVE ’CABINET’  TO CABINET
0330 MOVE ’PASSWORD’ TO PASSWORD
0340 MOVE 11         TO OBJECT-NUMBER
0350 MOVE 1234567890 TO OBJECT-ISN
0360 MOVE ’Cover note text’ TO COVER-NOTE-TEXT(1)
0370 MOVE ’Document mail’   TO SUBJECT
0380 *
0390 CALLNAT ’Z-MAILAX’
0400   RETURN-CODE
0410   ADDRESSEES(*)
0420   ADDRESS-TYPE(*)
0430   MAIL-TYPE(*)
0440   CABINET
```

```
0450   PASSWORD
0460   SENDER-NAME
0470   OBJECT-NUMBER
0480   OBJECT-NAME
0490   OBJECT-ISN
0500   COVER-NOTE-TEXT(*)
0510   SUBJECT
0520   WORK-PARAMETER
0530 *
0540 IF  RETURN-CODE EQ 0
0550   WRITE 'Document was sent'
0560 ELSE
0570   WRITE 'Return code ' RETURN-CODE
0580 END-IF
0590 *
0600 END
```

Z-MCONFM

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Confirm (i.e. send) the invitations to a meeting that has been added using Z-ADD06 or modified using Z-MOD06.

Before the (modified) invitations can be sent with Z-MCONFM, you have to specify the attendees using Z-ADDATT.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the (modified) invitations are to be sent.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R	X	Input: ISN of the (modified) invitation to be sent. Specify the Calendar-ISN that is returned by Z-ADD06 or Z-MOD06. Output: ISN of the (modified) invitation that has been sent.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
18	API context buffer not available
21	Addressee not found (no additional addressee selected)
24	Security violation
25	More addressees than allowed
90	Unable to create transport service item
99	Internal error

Subprograms

N-GETMSG
S-0216
Z-110
Z-120
Z-122
Z-123
Z-124
Z-147
Z-165
Z-168
Z-175
Z-177
Z-180
Z-185
Z-191
Z-194
Z-194A
Z-197
Z-208
Z-211
Z-212
Z-213
Z-216
Z-221
Z-222
Z-223
Z-224
Z-225

Z-241
Z-373
Z-400
Z-401
Z-402
Z-403
Z-404
Z-406
Z-407
Z-711
Z-747
Z-748
Z-1200&0
Z-RINITM
Z-RCONFM

Example

```
DEFINE DATA
LOCAL
1 RETURN-CODE   (N2)
1 CABINET       (A8)
1 PASSWORD      (A8)
1 CALENDAR-ISN  (P10)
END-DEFINE
*
MOVE 'Cabinet'  TO CABINET
MOVE 'Password' TO PASSWORD
MOVE 32678      TO CALENDAR-ISN
*
CALLNAT 'Z-MCONFM'
  RETURN-CODE
  CABINET
  PASSWORD
  CALENDAR-ISN
*
WRITE
  '=' CABINET  /
  '=' PASSWORD /
  '=' CALENDAR-ISN      /
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-MEMCAB

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return a list of all cabinets and distribution lists in cabinet SYSCNT which have a specific cabinet as a member.

This subprogram can be invoked by a cabinet administrator, a system administrator, an administrator who has been defined as an owner of the Input-cabinet, or a user who has not been assigned administrative functions.

If user who has not been assigned administrative functions invokes this subprogram, all cabinets and distribution lists of which the user is a member are returned. In this case, the ID of the Input-cabinet must be the same as the user’s own cabinet ID.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		See the description above.
Password	A8	R		The password of the above cabinet.
Input-cabinet	A8	R		The ID of the cabinet that you are looking for.
Start-object	A12	O		A cabinet ID or the name of a distribution list with which processing is to start.
Number	N2	O		The maximum number of cabinets and distribution lists that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Output-table (20)				
Object-name	A12		X	The name of the cabinet or distribution list.
Cabinet-type	A1		X	Applies only if the object is a cabinet: S=shared cabinet; P=private cabinet.
Object-type	N2		X	5=cabinet; 10=distribution list.
Work-parameter	A12			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
77	End of list
90	Input-cabinet does not exist
91	No access; the Cabinet is not defined as an owner of the Input-cabinet

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 ************************************************************************
0020 * CALLING Z-MEMCAB
0030 ************************************************************************
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE     (N2)
0080 1 CABINET         (A8)
0090 1 PASSWORD        (A8)
0100 1 INPUT-CABINET   (A8)
0110 1 START-OBJECT    (A12)
0120 1 NUMBER          (N2)
0130 1 OUTPUT-TABLE    (1:20)
0140   2 OBJECT-NAME   (A12)
0141   2 CABINET-TYPE  (A1)
0150   2 OBJECT-TYPE   (N2)
0160 1 WORK-PARAMETER  (A12)
0170 *
0180 1 #INX            (P3)      /* Counter
0190 END-DEFINE
0200 *
0210 INPUT 'CABINET:'CABINET /
0220   'PASSWORD:'PASSWORD /
0230   'INPUT-CABINET:'INPUT-CABINET /
0240   'START-OBJECT:'START-OBJECT /
0250   'NUMBER:'NUMBER
0260 *
0270 *
0280 REPEAT
0290 *
0300   CALLNAT 'Z-MEMCAB'
0310     RETURN-CODE
0320     CABINET
0330     PASSWORD
0340     INPUT-CABINET
0350     START-OBJECT
0360     NUMBER
0370     OUTPUT-TABLE(*)
0380     WORK-PARAMETER
0390 *
0400   WRITE NOTITLE 'RETURN CODE' RETURN-CODE
0410 *
0420   IF RETURN-CODE EQ 0 OR RETURN-CODE EQ 77
0430     FOR #INX 1 TO NUMBER
0440       WRITE NOTITLE
0441           OBJECT-NAME(#INX) 3X OBJECT-TYPE(#INX) 3X CABINET-TYPE(#INX)
0450     END-FOR
0460   END-IF
0470 *
0480   NEWPAGE
0490   UNTIL RETURN-CODE NE 0
0500 END-REPEAT
0510 END
```

Z-MEMSHP

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return a list of shared and private cabinets that a user (as specified in the parameters Cabinet and Password) is allowed to use.

The list contains all shared cabinets of which the user is a member and all private cabinets which the user has been authorized to use.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Note:
In contrast to Z-MEMCAB, an administrator cannot use this subprogram in order to list cabinets of which he is not a member.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The ID of the user's cabinet.
Password	A8	R		The password of the above cabinet.
Start-cabinet	A8	O		Start value. The name of a cabinet. If Start-cabinet is not specified, a list of all cabinets that the user is allowed to use is returned.
Table (20)				
Cabinet-name	A8		X	The name of the cabinet that the user is allowed to use.
Cabinet-type	A1		X	S=shared cabinet, P=private cabinet.
Work-parameter	A8			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
77	End of list

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Z-MLDFLT

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Modify the send defaults for a mail item that is to be sent with Z-MAILA or Z-MAILAX. You should call Z-MLDFLT before calling Z-MAILA or Z-MAILAX.

Delivery date and time are interpreted as GMT date and time. When you do not specify date and time (or set them to zero), the current date and time are used.

The parameter Suspended-transport-flag only applies to a transport service item. It is used to control when the transport service item is to be created. When this parameter is not marked, Z-MAILA or Z-MAILAX automatically invokes Z-CNFIRM in order to create the transport service item. When this parameter is marked, Z-MAILA or Z-MAILAX does not invoke Z-CNFIRM; in this case, you must invoke Z-CNFIRM yourself (see the description of Z-CNFIRM).

When you use Z-MLDFLT to modify the send defaults of a telex, teletex or telefax that is to be sent using Con-nect Teleservices and you specify a value in the parameter Delivery-time, you must observe the following, otherwise this value will not be used. In the address of the telex, teletex or telefax node, both values for the time range in which the mail item is to be sent must be set to zero; i.e. the time range must be defined as follows:

```
Send between 0000 (hhmm) in GMT
         and 0000 (hhmm) in GMT
```

However, if values other than zero have been defined in the address of the telex, teletex or telefax node, the mail item is always sent at the earliest possible time.

Example: the time range between 18:00 and 22:00 was defined in the address and you specify 20:00 in the parameter Delivery-time. In this case, your specification (20:00) is ignored and the mail item is sent at the earliest possible time which is 18:00.

The Work-parameter must be blank when calling Z-MLDFLT. Its contents is passed to Z-MAILA or Z-MAILAX.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Suspended-transport-flag	A1	O		Only applies to a transport service item. If not marked, Z-MAILA or Z-MAILAX automatically creates a transport service item. If marked, you must invoke Z-CNFIRM in order to create a transport service item.
Delivery-date	P8	O		The date when the mail item is to be sent. Format yyyymmdd.
Delivery-time	P4	O		The time when the mail item is to be sent. Format hhmm. When you specify a Delivery-time, you must also specify a Delivery-date (otherwise, the Delivery-time is set to zero). See the above description for limitations that apply to Con-nect Teleservices.
Delivery-interval	N1	O		0=no repeated delivery, 1=daily delivery, 2=weekly delivery, 3=monthly delivery.
Delivery-count	N2	O		If Delivery-interval is 1, 2 or 3, you must specify how many times the mail item is to be delivered. The Delivery-count can be any number between 1 and 99.
Priority	N1	O		The priority of the mail item. 0=normal, 1=low, 2=urgent. Default: 0.
Message-flags	A16	O		
Redefine Message-flags				
Alternate-recipient	A1	O		If marked, the mail item may be delivered to a default cabinet, if the addressee cannot be found at the target node.
Message-conversion	A1	O		If marked, conversion of your mail is allowed.
Disclose-recipients	A1	O		If marked, the addressee can display the name of all other addressees.
Validate-recipient-list	A1	O		If marked, it is checked whether the specified addressee is known at the target node.
Filler	A12			For future use.
Work-parameter	A128			For internal use. See **The Work Parameter**.

Return Codes

00	Success
90	Message has already been sent - defaults can no longer be modified
91	Invalid delivery interval
92	Invalid delivery count
93	Invalid priority

Subprograms

None

Z-MLGETA

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the mail status message of a specific user and the time range in which it is to appear.

The timezone is always GMT. Other timezones are not considered.

This subprogram is the same as Z-MLSGET with the exception that additional parameters have been introduced.

This subprogram can be invoked prior to Z-MAILA or Z-MAILAX to find out whether the user has set a mail status message. However, it can also be used independently.

You cannot specify more than one ID in the Cabinet parameter. If you want to get the mail status message for several users, you must invoke this subprogram for each user.

For another cabinet than your own, the mail status message is only returned when it has been activated (i.e. when the user has marked the "Set Mail Status Message" field).

For your own cabinet, the mail status message is also returned when it has not been activated.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the mail status message is to be returned.
Active	A1		X	If marked, the mail status message has been activated.
Start-date	A8		X	Format yyymmdd.
Start-time	A4		X	Format hhmm.
End-date	A8		X	Format yyymmdd.
End-time	A4		X	Format hhmm.
Mail-status-message	A37/1:10		X	The text of the mail status message.

Return Codes

00	Success
02	Invalid cabinet name

Subprograms

None

Example

```
0010 ************************************************************************
0020 * Return the status message of a user
0030 ************************************************************************
0040 *
0050 DEFINE DATA
0060 *
0070 LOCAL
0080 *
0090 1 RETURN-CODE           (N2)
0100 1 CABINET               (A8)
0110 1 ACTIVE                (A1)
0120 1 START-DATE            (A8)
0130 1 START-TIME            (A4)
0140 1 END-DATE              (A8)
0150 1 END-TIME              (A4)
0160 1 MAIL-STATUS-MESSAGE   (A37/1:10)
0170 *
0180 END-DEFINE
0190 *
0200 * Input API parameters
0210 *
0220 *
0230   INPUT (AD=I'_')
```

```
0240     // 25X '********** Z-MLGETA **********' /
0250    '  Cabinet' CABINET /
0260 *
0270   CALLNAT 'Z-MLGETA' RETURN-CODE
0280     CABINET
0290     ACTIVE
0300     START-DATE
0310     START-TIME
0320     END-DATE
0330     END-TIME
0340     MAIL-STATUS-MESSAGE(*)
0350 *
0360   IF RETURN-CODE EQ 0
0370     WRITE
0380       '=' CABINET /
0390       '=' ACTIVE //
0400       'Mail Status Message :' //
0410       ' 1' MAIL-STATUS-MESSAGE (1) /
0420       ' 2' MAIL-STATUS-MESSAGE (2) /
0430       ' 3' MAIL-STATUS-MESSAGE (3) /
0440       ' 4' MAIL-STATUS-MESSAGE (4) /
0450       ' 5' MAIL-STATUS-MESSAGE (5) /
0460       ' 6' MAIL-STATUS-MESSAGE (6) /
0470       ' 7' MAIL-STATUS-MESSAGE (7) /
0480       ' 8' MAIL-STATUS-MESSAGE (8) /
0490       ' 9' MAIL-STATUS-MESSAGE (9) /
0500       '10' MAIL-STATUS-MESSAGE (10) //
0510     WRITE     '=' START-DATE
0520     WRITE     '=' START-TIME
0530     WRITE     '=' END-DATE
0540     WRITE     '=' END-TIME
0550   ELSE
0560     WRITE '=' RETURN-CODE
0570   END-IF
0580 *
0590 END
```

Z-MLGETB

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the mail status message of a specific user, the time range in which it is to appear and Cc information.

If Cc is specified in the mail status message, it informs who is to receive a copy of each mail item that is sent to this user.

The timezone is always GMT. Other timezones are not considered.

This subprogram is similar to Z-MLGETA with the exception that it also returns the Cc information.

This subprogram can be invoked prior to Z-MAILA or Z-MAILAX to find out whether the user has set a mail status message. However, it can also be used independently.

You cannot specify more than one ID in the Cabinet parameter. If you want to get the mail status message for several users, you must invoke this subprogram for each user.

For another cabinet than your own, the mail status message is only returned when it has been activated (i.e. when the user has marked the "Set Mail Status Message" field).

For your own cabinet, the mail status message is also returned when it has not been activated.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the mail status message is to be returned.
Active	A1		X	If marked, the mail status message has been activated.
Start-date	A8		X	Format yyymmdd.
Start-time	A4		X	Format hhmm.
End-date	A8		X	Format yyymmdd.
End-time	A4		X	Format hhmm.
Mail-status-message	A37/1:10		X	The text of the mail status message.
Cc-flag	A1		X	If marked, Cc has been set.
Cc	A20		X	
Cc-address-type	N2		X	One of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.
Cc-address-source	A1		X	Only if Cc-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Cc-last-first-name	A20		X	Only if Cc-address-type is 1 (external address) or 33 (user ID). Blank if Cc-address-type is 1 and this is not an external address (e.g. nickname for user ID).
Cc-node-name	A8		X	Only if Cc-address-type is 1 (external address). Node name if this is a nickname for an external node. Blank if this is not a Cc for an external node.
Cc-status	A1		X	Blank=Cc is valid. X=Cc of given Cc-address-type was not found in Con-nect.

Return Codes

00	Success
02	Invalid cabinet name

Subprograms

Z-723

Example

```
0010 ************************************************************************
0020 * Return the mail status message of a user
0030 ************************************************************************
0040 *
0050 DEFINE DATA
0060 *
0070 LOCAL
0080 *
0090 1 RETURN-CODE           (N2)
0100 1 CABINET               (A8)
0110 1 ACTIVE                (A1)
0120 1 START-DATE            (A8)
0130 1 START-TIME            (A4)
0140 1 END-DATE              (A8)
0150 1 END-TIME              (A4)
0160 1 MAIL-STATUS-MESSAGE   (A37/1:10)
0170 1 CC-FLAG               (A1)
0180 1 CC                    (A20)
0190 1 CC-ADDRESS-TYPE       (N2)
0200 1 CC-ADDRESS-SOURCE     (A1)
0210 1 CC-LAST-FIRST-NAME    (A20)
0220 1 CC-NODE-NAME          (A8)
0230 1 CC-STATUS             (A1)
0240 *
0250 END-DEFINE
0260 *
0270 * Input API parameters
0280 *
0290   INPUT (AD=I'_')
0300     // 25X '********** Z-MLGETB **********' //
0310     '   Cabinet' CABINET /
0320 *
0330   CALLNAT 'Z-MLGETB'
0340     RETURN-CODE
0350     CABINET
0360     ACTIVE
0370     START-DATE
0380     START-TIME
0390     END-DATE
0400     END-TIME
0410     MAIL-STATUS-MESSAGE(*)
0420     CC-FLAG
0430     CC
0440     CC-ADDRESS-TYPE
0450     CC-ADDRESS-SOURCE
0460     CC-LAST-FIRST-NAME
0470     CC-NODE-NAME
0480     CC-STATUS
0490 *
0500   IF RETURN-CODE EQ 0
0510     WRITE NOTITLE NOHDR
0520       '=' CABINET /
0530       '=' ACTIVE //
0540       'Mail status message :' //
0550       ' 1' MAIL-STATUS-MESSAGE (1) /
0560       ' 2' MAIL-STATUS-MESSAGE (2) /
0570       ' 3' MAIL-STATUS-MESSAGE (3) /
0580       ' 4' MAIL-STATUS-MESSAGE (4) /
0590       ' 5' MAIL-STATUS-MESSAGE (5) /
0600       ' 6' MAIL-STATUS-MESSAGE (6) /
```

```
0600       ' 6' MAIL-STATUS-MESSAGE (6) /
0610       ' 7' MAIL-STATUS-MESSAGE (7) /
0620       ' 8' MAIL-STATUS-MESSAGE (8) /
0630       ' 9' MAIL-STATUS-MESSAGE (9) /
0640       '10' MAIL-STATUS-MESSAGE (10) //
0650       '=' START-DATE  30T '=' START-TIME /
0660       '=' END-DATE    30T '=' END-TIME //
0670       'Mark'       CC-FLAG
0680       'to set CC:' CC
0690       'CC Type:'   CC-ADDRESS-TYPE
0700       'CC Source:' CC-ADDRESS-SOURCE
0710       'CC STATUS:' CC-STATUS /
0720       'Last/First Name:' CC-LAST-FIRST-NAME
0730       'Node:'      CC-NODE-NAME
0740   ELSE
0750     WRITE '=' RETURN-CODE
0760   END-IF
0770 *
0780 END
```

Z-MLGETC

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return the mail status message of a specific user, the time range in which it is to appear, whether date and time are to be hidden, and Cc information.

If Cc is specified in the mail status message, it informs who is to receive a copy of each mail item that is sent to this user.

The timezone is always GMT. Other timezones are not considered.

This subprogram is similar to Z-MLGETB with the exception that it also returns the parameter Hide-date-time.

This subprogram can be invoked prior to Z-MAILA or Z-MAILAX to find out whether the user has set a mail status message. However, it can also be used independently.

You cannot specify more than one ID in the Cabinet parameter. If you want to get the mail status message for several users, you must invoke this subprogram for each user.

For another cabinet than your own, the mail status message is only returned when it has been activated (i.e. when the user has marked the "Set Mail Status Message" field).

For your own cabinet, the mail status message is also returned when it has not been activated.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the mail status message is to be returned.
Active	A1		X	If marked, the mail status message has been activated.
Start-date	A8		X	Format yyymmdd.
Start-time	A4		X	Format hhmm.
End-date	A8		X	Format yyymmdd.
End-time	A4		X	Format hhmm.
Mail-status-message	A37/1:10		X	The text of the mail status message.
Cc-flag	A1		X	If marked, Cc has been set.
Cc	A20		X	
Cc-address-type	N2		X	One of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.
Cc-address-source	A1		X	Only if Cc-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Cc-last-first-name	A20		X	Only if Cc-address-type is 1 (external address) or 33 (user ID). Blank if Cc-address-type is 1 and this is not an external address (e.g. nickname for user ID).
Cc-node-name	A8		X	Only if Cc-address-type is 1 (external address). Node name if this is a nickname for an external node. Blank if this is not a Cc for an external node.
Cc-status	A1		X	Blank=Cc is valid. X=Cc of given Cc-address-type was not found in Con-nect.
Hide-date-time	A1		X	If marked, the time range in which the mail status message is to appear is not shown in the mail status window.

Return Codes

00	Success
02	Invalid cabinet name

Subprograms

Z-723

Example

```
************************************************************************
* Return the mail status message of a user
************************************************************************
*
DEFINE DATA
*
LOCAL
*
1 RETURN-CODE           (N2)
1 CABINET               (A8)
1 ACTIVE                (A1)
1 START-DATE            (A8)
1 START-TIME            (A4)
1 END-DATE              (A8)
1 END-TIME              (A4)
1 MAIL-STATUS-MESSAGE   (A37/1:10)
1 CC-FLAG               (A1)
1 CC                    (A20)
1 CC-ADDRESS-TYPE       (N2)
1 CC-ADDRESS-SOURCE     (A1)
1 CC-LAST-FIRST-NAME    (A20)
1 CC-NODE-NAME          (A8)
1 CC-STATUS             (A1)
1 HIDE-DATE-TIME        (A1)
END-DEFINE
*
* Input API parameters
*
  INPUT (AD=I'_')
    // 25X '********** Z-MLGETC **********' //
    '   Cabinet' CABINET /
*
  CALLNAT 'Z-MLGETC'
    RETURN-CODE
    CABINET
    ACTIVE
    START-DATE
    START-TIME
    END-DATE
    END-TIME
    MAIL-STATUS-MESSAGE(*)
    CC-FLAG
    CC
    CC-ADDRESS-TYPE
    CC-ADDRESS-SOURCE
    CC-LAST-FIRST-NAME
    CC-NODE-NAME
    CC-STATUS
    HIDE-DATE-TIME
*
  IF RETURN-CODE EQ 0
    WRITE NOTITLE NOHDR
      '=' CABINET /
      '=' ACTIVE //
      'Mail status message :' //
      ' 1:' MAIL-STATUS-MESSAGE (1) /
      ' 2:' MAIL-STATUS-MESSAGE (2) /
      ' 3:' MAIL-STATUS-MESSAGE (3) /
      ' 4:' MAIL-STATUS-MESSAGE (4) /
      ' 5:' MAIL-STATUS-MESSAGE (5) /
```

```
      ' 6:' MAIL-STATUS-MESSAGE (6) /
      ' 7:' MAIL-STATUS-MESSAGE (7) /
      ' 8:' MAIL-STATUS-MESSAGE (8) /
      ' 9:' MAIL-STATUS-MESSAGE (9) /
      '10:' MAIL-STATUS-MESSAGE (10) //
      'Start Date:' START-DATE  5X 'Start Time:' START-TIME /
      '  End Date:' END-DATE    5X '  End Time:' END-TIME  5X
      'Mark'        HIDE-DATE-TIME ' to hide Date/Time' //
      'Mark'        CC-FLAG
      'to set CC:'  CC
      'CC Type:'    CC-ADDRESS-TYPE
      'CC Source:'  CC-ADDRESS-SOURCE
      'CC STATUS:'  CC-STATUS /
      'Last/First Name:' CC-LAST-FIRST-NAME
      'Node:'       CC-NODE-NAME
  ELSE
    WRITE '=' RETURN-CODE
  END-IF
*
END
```

Z-MLSGET

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return the mail status message of a specific user.

This subprogram can be invoked prior to Z-MAILA or Z-MAILAX to find out whether the user has set a mail status message. However, it can also be used independently.

You cannot specify more than one ID in the Cabinet parameter. If you want to get the mail status message for several users, you must invoke this subprogram for each user.

For another cabinet than your own, the mail status message is only returned when it has been activated (i.e. when the user has marked the "Set Mail Status Message" field).

For your own cabinet, the mail status message is also returned when it has not been activated.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the mail status message is to be returned.
Active	A1		X	If marked, the mail status message has been activated.
Mail-status-message	A37/1:10		X	The text of the mail status message.

Return Codes

00	Success
02	Invalid cabinet name

Subprograms

None

Z-MOD01A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Modify a nickname for an address at an external node. This subprogram applies only to an external node which uses the spool file.

This subprogram does not apply to a transport service node. To modify a nickname for a transport service node, you must use Z-MOD01T.

If you know the Node-name, but do not know the physical address of the external node (Node-parameters) which has been defined by the administrator, you can invoke Z-GET74 prior to Z-MOD01A to obtain the physical address information.

This subprogram does not check whether the information you specify in the Node-parameters corresponds to the information which has been defined by the administrator. Thus, you can specify different address information in the Node-parameters. However, it is your responsibility to specify the correct information.

Parameters which are not completed in the parameter list are deleted from the nickname information. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram. There is one exception: when you do not specify Folder-name and File-name, the nickname is automatically stored in folder Work.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET
Cabinet	A8	R		The cabinet in which the nickname is to be modified.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R*	X	The nickname to be modified. Input: either Nickname or ISN; not both.
ISN	P8	R*	X	The ISN of the nickname to be modified. Input: either ISN or Nickname; not both. You can invoke Z-GET01 prior to Z-MOD01A to obtain the ISN for the desired nickname.
Description	A60/1:4	O		A brief description for the nickname.
Folder-name	A15	O		The folder in which the nickname is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the nickname is to be stored.
Node-name	A8	R		The name of an existing node which has been added by the administrator.
Node-parameters	A250	R		The physical address of the external node. See **External Communication**.
Parameter-length	N3	O		The length of the Node-parameters. If you do not know the length, you should not specify a value.
Post-flag	A1	O		Marking this flag is only useful if you send mail using the online Con-nect. If marked, a window appears and you can enter additional information before the mail is sent. Therefore, do not mark this flag if you use Z-MAILA to send mail, since the window does not appear in this case.
Private-flag	A1	O		If marked, the nickname is a private object.
Security-flags	A4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
15	Invalid administrator status
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
73	Invalid folder/file name
91	Invalid name
93	External node or address does not exist
94	Node-name is not a spool file node name

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-1200&0

Z-MOD01B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify a nickname for an address at an external node. This subprogram applies only to an external node which uses the spool file.

This subprogram is similar to Z-MOD01A with the exception that you can also modify the last name and first name of a user.

This subprogram does not apply to a transport service node. To modify a nickname for a transport service node, you must use Z-MOD01T.

If you know the Node-name, but do not know the physical address of the external node (Node-parameters) which has been defined by the administrator, you can invoke Z-GET74 prior to Z-MOD01B to obtain the physical address information.

This subprogram does not check whether the information you specify in the Node-parameters corresponds to the information which has been defined by the administrator. Thus, you can specify different address information in the Node-parameters. However, it is your responsibility to specify the correct information.

Parameters which are not completed in the parameter list are deleted from the nickname information. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram. There is one exception: when you do not specify Folder-name and File-name, the nickname is automatically stored in folder Work.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET
Cabinet	A8	R		The cabinet in which the nickname is to be modified.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R*	X	The nickname to be modified. Input: either Nickname or ISN; not both.
ISN	P10	R*	X	The ISN of the nickname to be modified. Input: either ISN or Nickname; not both. You can invoke Z-GET01B prior to Z-MOD01B to obtain the ISN for the desired nickname.
Last-name	A32	O		The last name of a user at an external node.
First-name	A32	O		The first name of a user at an external node.
Description	A60/1:4	O		A brief description of the nickname.
Folder-name	A15	O		The folder in which the nickname is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the nickname is to be stored.
Node-name	A8	R		The name of an existing node which has been added by the administrator.
Node-parameters	A250	R		The physical address of the external node. See **External Communication**.
Parameter-length	N3	O		The length of the Node-parameters. If you do not know the length, you should not specify a value.
Post-flag	A1	O		Marking this flag is only useful if you send mail using online Con-nect. If marked, a window appears and you can enter additional information before the mail is sent. Therefore, do not mark this flag if you use Z-MAILA to send mail, since the window does not appear in this case.
Private-flag	A1	O		If marked, the nickname is a private object.
Security-flags	A4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
15	Invalid administrator status
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
73	Invalid folder/file name
91	Invalid name
93	External node or address does not exist
94	Node-name is not a spool file node name

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-1200&0

Example

```
0010 *
0020 * Example program to modify a nickname for a external address.
0030 * Z-GET01B is invoked prior to Z-MOD01B.
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE            (N2)
0080 1 CABINET                (A8)
0090 1 PASSWORD               (A8)
0100 1 NICKNAME               (A20)
0110 1 ISN                    (P10)
0120 1 LAST-NAME              (A32)
0130 1 FIRST-NAME             (A32)
0140 1 DESCRIPTION            (A60/1:4)
0150 1 FOLDER-NAME            (A15)
0160 1 FILE-NAME              (A15)
0170 1 NODE-NAME              (A8)
0180 1 NODE-PARAMETERS        (A250)
0190 1 PARAMETER-LENGTH       (N3)
```

```
0200 1 POST-FLAG              (A1)
0210 1 PRIVATE-FLAG           (A1)
0220 1 SECURITY-FLAGS         (A4)
0230 1 REDEFINE SECURITY-FLAGS
0240   2 SECURITY-READ        (A1)
0250   2 SECURITY-MODIFY      (A1)
0260   2 SECURITY-COPY        (A1)
0270   2 SECURITY-PRINT       (A1)
0280 END-DEFINE
0290 *
0300 RESET RETURN-CODE
0310 MOVE 'USERID'         TO CABINET
0320 MOVE 'PW'             TO PASSWORD
0330 MOVE 'EXTERNAL NODE'  TO NICKNAME
0340 *
0350 CALLNAT 'Z-GET01B' RETURN-CODE
0360                    CABINET
0370                    PASSWORD
0380                    NICKNAME
0390                    ISN
0400                    LAST-NAME
0410                    FIRST-NAME
0420                    DESCRIPTION(*)
0430                    FOLDER-NAME
0440                    FILE-NAME
0450                    NODE-NAME
0460                    NODE-PARAMETERS
0470                    PARAMETER-LENGTH
0480                    POST-FLAG
0490                    PRIVATE-FLAG
0500                    SECURITY-FLAGS
0510 *
0520 MOVE 'NEW LAST NAME'  TO LAST-NAME
0530 MOVE 'NEW FIRST NAME' TO FIRST-NAME
0540 RESET ISN
0550 *
0560 CALLNAT 'Z-MOD01B' RETURN-CODE
0570                    CABINET
0580                    PASSWORD
0590                    NICKNAME
0600                    ISN
0610                    LAST-NAME
0620                    FIRST-NAME
0630                    DESCRIPTION(*)
0640                    FOLDER-NAME
0650                    FILE-NAME
0660                    NODE-NAME
0670                    NODE-PARAMETERS
0680                    PARAMETER-LENGTH
0690                    POST-FLAG
0700                    PRIVATE-FLAG
0710                    SECURITY-FLAGS
0720 *
0730 IF RETURN-CODE EQ 0
0740    WRITE 'Nickname  ' (AD=IO) NICKNAME 'was modified.' (AD=IO)  /
0750          'New:'       (AD=IO)                                   /
0760          'Last name ' (AD=IO) LAST-NAME                         /
0770          'First name' (AD=IO) FIRST-NAME
0780 ELSE
```

```
0790    WRITE ’Return code’ RETURN-CODE
0800 END-IF
0810 *
0820 END
```

Z-MOD01C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the work and home address for a cabinet or nickname.

This subprogram is similar to Z-MODADR with the exception that you can also modify the last name, initial and first name of a cabinet, or the last name and first name of a nickname.

This subprogram can be used by different types of users. Depending on the type of user, the following functions are allowed:

- **Cabinet Administrator**
  Modify the address for a cabinet (except for cabinet SYSCNT), or for a nickname in the cabinet administrator's own private cabinet.

- **System Administrator**
  Modify the address for cabinet SYSCNT, for a nickname in cabinet SYSCNT, or for a nickname in the system administrator's own private cabinet.

- **Any Other User**
  Modify the address for a nickname in the user's own private cabinet.

You must specify at least one of the following parameters: Cabinet-name, Nickname or Object-ISN. Thus, the following combinations are allowed: Cabinet-name and Object-ISN, Nickname and Object-ISN, only the Cabinet-name, only the Nickname, or only the Object-ISN.

The following table shows the parameters that are used for the different functions of this subprogram (the table does not consider the Object-ISN):

Function	Cabinet	Cabinet-name	Nickname
Modify the address for a cabinet (except for cabinet SYSCNT).	User ID of a cabinet administrator.	The name of the cabinet to be modified.	
Modify the address for cabinet SYSCNT.	User ID of a system administrator.	The cabinet name "SYSCNT".	
Modify a nickname in cabinet SYSCNT.	The cabinet name "SYSCNT".		The nickname to be modified.
Modify a nickname in the owner's private cabinet.	The name of the cabinet in which the nickname is stored.		The nickname to be modified.

Parameters which are not completed in the parameter list are deleted from the address. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

To fill the parameters with the already existing address values, it is recommended that you invoke Z-GET01C prior to invoking Z-MOD01C (see the following example program).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		To modify the address for a cabinet, this must be the user ID of a cabinet administrator. To modify the nickname, this must be the ID of the cabinet in which the nickname is stored.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R/O*		The name of the cabinet to be modified. Either Cabinet-name or Nickname, not both.
Nickname	A32	R/O*		The nickname to be modified. Either Nickname or Cabinet-name, not both.
Object-ISN	P10	R/O		The ISN of the cabinet or nickname to be modified. You can invoke Z-GET01C prior to Z-MOD01C to obtain the ISN for the desired cabinet or nickname. The Object-ISN can either be specified alone, or in addition to Cabinet-name or Nickname. In the latter case, the Object-ISN must correspond to the Cabinet-name or Nickname, otherwise return code 4 is issued.
Last-name	A32	O		Valid only for a cabinet or external address. The last name of a user.
First-name	A32	O		Valid only for a private cabinet or external address. The first name of a user.

Parameter	Format	In	Out	Remarks
Initial	A1	O		Valid only for a private cabinet. The initial of a user.
Nickname-for	A44	O		Valid only for a nickname. Last name and first name delimited by a comma.
Work-title	A32	O		
Work-company	A32	O		
Work-location	A32	O		
Work-address	A60/1:3	O		
Work-city	A32	O		
Work-country	A8	O		
Work-department-name	A32	O		
Work-department-number	A10	O		
Work-phone	A15	O		
Work-phone-country	N2	O		
Work-phone-extension	A10	O		
Work-postal-code	A10	O		
Work-state	A8	O		
Home-address	A60/1:2	O		
Home-city	A32	O		
Home-country	A8	O		
Home-phone	A15	O		
Home-phone-country	N2	O		
Home-postal-code	A10	O		
Home-state	A8	O		

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
15	Invalid administrator status
53	Requested object does not exist
91	Invalid input in the parameter Cabinet-name or Nickname
92	Supply either Cabinet-name or Nickname, not both
93	Either Cabinet-name or Nickname must be supplied
94	Incorrect value for Nickname-for

Subprograms

N-UPDNAM
Z-120
Z-122
Z-123
Z-175
Z-206
Z-562
Z-710
Z-1200&0

Example

```
0010 *
0020 * Example program to substitute the old German
0030 * zip codes (PLZ) with the new five-character zip codes
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE            (N2)
0080 1 CABINET                (A8)
0090 1 PASSWORD               (A8)
0100 1 CABINET-NAME           (A8)
0110 1 NICKNAME               (A32)
0120 1 OBJECT-ISN             (P10)
0130 1 OBJECT-NUMBER          (N2)     /* used by Z-GET01C
0140 1 PRIVATE-FLAG           (A1)     /* used by Z-GET01C
0150 1 LAST-NAME              (A32)
0160 1 FIRST-NAME             (A32)
0170 1 INITIAL                (A1)
0180 1 NICKNAME-FOR           (A44)
0190 1 NICKNAME-STATUS        (N1)     /* used by Z-GET01C
0200 1 NICKNAME-ORIGIN        (A8)     /* used by Z-GET01C
```

```
0210 1 WORK-TITLE             (A32)
0220 1 WORK-COMPANY           (A32)
0230 1 WORK-LOCATION          (A32)
0240 1 WORK-ADDRESS           (A60/1:3)
0250 1 WORK-CITY              (A32)
0260 1 WORK-COUNTRY           (A8)
0270 1 WORK-DEPARTMENT-NAME   (A32)
0280 1 WORK-DEPARTMENT-NUMBER (A10)
0290 1 WORK-PHONE             (A15)
0300 1 WORK-PHONE-COUNTRY     (N2)
0310 1 WORK-PHONE-EXTENSION   (A10)
0320 1 WORK-POSTAL-CODE       (A10)
0330 1 WORK-STATE             (A8)
0340 1 HOME-ADDRESS           (A60/1:2)
0350 1 HOME-CITY              (A32)
0360 1 HOME-COUNTRY           (A8)
0370 1 HOME-PHONE             (A15)
0380 1 HOME-PHONE-COUNTRY     (N2)
0390 1 HOME-POSTAL-CODE       (A10)
0400 1 HOME-STATE             (A8)
0410 1 WORK-PARAMETER         (A83)     /* used by Z-GET01C
0420 *
0430 1 TABLE-DA               (A30/2) INIT
0440           (1) <'Haardtring          64295'>
0450           (2) <'Friedberger         64289'>
0460 1 REDEFINE TABLE-DA
0470   2 STRING (2)
0480     3 STREET               (A20)
0490     3 PLZ                  (A5)
0500 1 IND                      (N2)
0510 1 #RETURN-CODE             (N2)
0520 1 #COUNTER                 (N3)
0530 END-DEFINE
0540 *
0550 MOVE 'DBA     ' TO CABINET
0560 MOVE 'DBA     ' TO PASSWORD
0570 MOVE '*'        TO CABINET-NAME        /* all cabinets
0580 REPEAT
0590   RESET RETURN-CODE
0600   CALLNAT 'Z-GET01C' RETURN-CODE
0610                      CABINET
0620                      PASSWORD
0630                      CABINET-NAME
0640                      NICKNAME
0650                      OBJECT-ISN
0660                      OBJECT-NUMBER
0670                      PRIVATE-FLAG
0680                      LAST-NAME
0690                      FIRST-NAME
0700                      INITIAL
0710                      NICKNAME-FOR
0720                      NICKNAME-STATUS
0730                      NICKNAME-ORIGIN
0740                      WORK-TITLE
0750                      WORK-COMPANY
0760                      WORK-LOCATION
0770                      WORK-ADDRESS(1:3)
0780                      WORK-CITY
0790                      WORK-COUNTRY
0800                      WORK-DEPARTMENT-NAME
0810                      WORK-DEPARTMENT-NUMBER
0820                      WORK-PHONE
```

```
0830                      WORK-PHONE-COUNTRY
0840                      WORK-PHONE-EXTENSION
0850                      WORK-POSTAL-CODE
0860                      WORK-STATE
0870                      HOME-ADDRESS(1:2)
0880                      HOME-CITY
0890                      HOME-COUNTRY
0900                      HOME-PHONE
0910                      HOME-PHONE-COUNTRY
0920                      HOME-POSTAL-CODE
0930                      HOME-STATE
0940                      WORK-PARAMETER
0950 *
0960   MOVE RETURN-CODE TO #RETURN-CODE
0970   IF RETURN-CODE EQ 0   OR
0980      RETURN-CODE EQ 77
0990     RESET RETURN-CODE
1000 *
1010     PERFORM FILL-PLZ   /* see the subroutine at the end of this program
1020 *
1030     CALLNAT 'Z-MOD01C' RETURN-CODE
1040                        NICKNAME-ORIGIN
1050                        PASSWORD
1060                        CABINET-NAME
1070                        NICKNAME
1080                        OBJECT-ISN
1090                        LAST-NAME
1100                        FIRST-NAME
1110                        INITIAL
1120                        NICKNAME-FOR
1130                        WORK-TITLE
1140                        WORK-COMPANY
1150                        WORK-LOCATION
1160                        WORK-ADDRESS(1:3)
1170                        WORK-CITY
1180                        WORK-COUNTRY
1190                        WORK-DEPARTMENT-NAME
1200                        WORK-DEPARTMENT-NUMBER
1210                        WORK-PHONE
1220                        WORK-PHONE-COUNTRY
1230                        WORK-PHONE-EXTENSION
1240                        WORK-POSTAL-CODE
1250                        WORK-STATE
1260                        HOME-ADDRESS(1:2)
1270                        HOME-CITY
1280                        HOME-COUNTRY
1290                        HOME-PHONE
1300                        HOME-PHONE-COUNTRY
1310                        HOME-POSTAL-CODE
1320                        HOME-STATE
1330   END-IF
1340   IF RETURN-CODE EQ 0
1350     ADD 1 TO #COUNTER
1360   END-IF
1370   UNTIL #RETURN-CODE NE 77
1380 END-REPEAT
1390 *
1400 WRITE #COUNTER ' addresses were modified'
1410 *
1420 *
1430 DEFINE SUBROUTINE FILL-PLZ
1440 *
```

```
1450 IF WORK-CITY EQ SCAN 'Darmstadt'
1460    FOR IND 1 TO 2
1470      IF WORK-ADDRESS(*) EQ SCAN STREET(IND)
1480        MOVE PLZ(IND) TO WORK-POSTAL-CODE
1490      END-IF
1500    END-FOR
1510 END-IF
1520 *
1530 END-SUBROUTINE
1540 *
1550 END
```

Z-MOD01D

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the work and home address for a cabinet or nickname.

This subprogram is similar to Z-MOD01C with the exception that you can also modify the Cc and Miscellaneous information. In addition, the parameter list contains new fields and the parameters are sorted according to their appearance in the online screen. Exception: Last-name, First-name, Initial and Sex are sorted differently in the parameter list.

The Cc parameters are only valid for cabinets (object number 5). For nicknames (object number 1) they are ignored.

This subprogram can be used by different types of users. Depending on the type of user, the following functions are allowed:

- **Cabinet Administrator**
  Modify the address for a cabinet (except for cabinet SYSCNT), or for a nickname in the cabinet administrator’s own private cabinet.

- **System Administrator**
  Modify the address for cabinet SYSCNT, for a nickname in cabinet SYSCNT, or for a nickname in the system administrator’s own private cabinet.

- **Any Other User**
  Modify the address for a nickname in the user’s own private cabinet.

You must specify at least one of the following parameters: Cabinet-name, Nickname or Object-ISN. Thus, the following combinations are allowed: Cabinet-name and Object-ISN, Nickname and Object-ISN, only the Cabinet-name, only the Nickname, or only the Object-ISN.

The following table shows the parameters that are used for the different functions of this subprogram (the table does not consider the Object-ISN):

Function	Cabinet	Cabinet-name	Nickname
Modify the address for a cabinet (except for cabinet SYSCNT).	User ID of a cabinet administrator.	The name of the cabinet to be modified.	
Modify the address for cabinet SYSCNT.	User ID of a system administrator.	The cabinet name "SYSCNT".	
Modify a nickname in cabinet SYSCNT.	The cabinet name "SYSCNT".		The nickname to be modified.
Modify a nickname in the owner's private cabinet.	The name of the cabinet in which the nickname is stored.		The nickname to be modified.

Parameters which are not completed in the parameter list are deleted from the address. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

To fill the parameters with the already existing address values, it is recommended that you invoke Z-GET01D prior to invoking Z-MOD01D (see the following example program).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		To modify the address for a cabinet, this must be the user ID of a cabinet administrator. To modify the nickname, this must be the ID of the cabinet in which the nickname is stored.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R/O*		The name of the cabinet to be modified. Either Cabinet-name or Nickname, not both.
Nickname	A32	R/O*		The nickname to be modified. Either Nickname or Cabinet-name, not both.
Object-ISN	P10	R/O		The ISN of the cabinet or nickname to be modified. You can invoke Z-GET01D prior to Z-MOD01D to obtain the ISN for the desired cabinet or nickname. The Object-ISN can either be specified alone, or in addition to Cabinet-name or Nickname. In the latter case, the Object-ISN must correspond to the Cabinet-name or Nickname, otherwise return code 4 is issued.
Last-name	A32	O		Valid only for a cabinet or external address. The last name of a user.
First-name	A32	O		Valid only for a private cabinet or external address. The first name of a user.

Parameter	Format	In	Out	Remarks
Initial	A1	O		Valid only for a private cabinet or external address. The initial of a user.
Sex	A10	O		Valid only for a private cabinet or external address.
Nickname-for	A44	O		Valid only for a nickname. Last name and first name delimited by a comma.
Work-company	A32	O		
Work-title	A32	O		
Work-department-name	A32	O		
Work-department-number	A10	O		
Work-location	A32	O		
Work-address	A60/1:3	O		
Work-city	A32	O		
Work-state	A8	O		
Work-postal-code	A10	O		
Work-country	A8	O		
Work-phone-1-country	N3	O		
Work-phone-1	A15	O		
Work-phone-1-extension	A5	O		
Work-phone-2-country	N3	O		
Work-phone-2	A15	O		
Work-phone-2-extension	A5	O		
Mobile-phone-country	N3	O		
Mobile-phone	A15	O		
Mobile-phone-extension	A5	O		
Fax-country	N3	O		
Fax	A15	O		
Fax-extension	A5	O		
Cc-flag	A1	O		Mark to activate Cc.
Cc	A20	O		Address, cabinet, user ID of addressee, or bulletin board to receive copy of mail.
Cc-address-type	N2	O		If Cc is specified, this must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.

Parameter	Format	In	Out	Remarks
Cc-address-source	A1	O		Only if Cc-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Cc-2-flag	A1	O		Mark to activate Cc-2.
Cc-2	A20	O		Address, cabinet, user ID of addressee, or bulletin board to receive copy of mail.
Cc-2-address-type	N2	O		If Cc-2 is specified, this must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.
Cc-2-address-source	A1	O		Only if Cc-2-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
E-mail	A64	O		
Internet	A64	O		
Home-address	A60/1:2	O		
Home-city	A32	O		
Home-state	A8	O		
Home-postal-code	A10	O		
Home-country	A8	O		
Home-phone-country	N3	O		
Home-phone	A15	O		
Home-phone-extension	A5	O		
Home-fax-country	N3	O		
Home-fax	A15	O		
Home-fax-extension	A5	O		
Home-e-mail	A64	O		
Miscellaneous-header	A12/1:6	O		
Miscellaneous-description	A64/1:6	O		

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
15	Invalid administrator status
53	Requested object does not exist
91	Invalid input in the parameter Cabinet-name or Nickname
92	Supply either Cabinet-name or Nickname, not both
93	Supply either Cabinet-name or Nickname
94	Invalid input in the parameter Nickname-for
95	Invalid input in the parameter Cc-address-type
96	Cc was not found
97	Invalid input in the parameter Cc-2-address-type
98	Cc-2 was not found

Subprograms

N-UPDNAM
Z-120
Z-122
Z-123
Z-175
Z-206
Z-562
Z-710
Z-723
Z-1200&0

Example

```
0010 *
0020 * Example program to set headers of Miscellaneous
0030 * for all addresses in cabinet MYCAB
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE            (N2)
0080 1 CABINET                (A8)
0090 1 PASSWORD               (A8)
0100 1 CABINET-NAME           (A8)
0110 1 NICKNAME               (A32)
```

```
0120 1 OBJECT-ISN             (P10)
0130 1 OBJECT-NUMBER          (N2)     /* used by Z-GET01D
0140 1 PRIVATE-FLAG           (A1)     /* used by Z-GET01D
0150 1 LAST-NAME              (A32)
0160 1 FIRST-NAME             (A32)
0170 1 INITIAL                (A1)
0180 1 SEX                    (A10)
0190 1 NICKNAME-FOR           (A44)
0200 1 NICKNAME-STATUS        (N1)     /* used by Z-GET01D
0210 1 NICKNAME-ORIGIN        (A8)     /* used by Z-GET01D
0220 1 WORK-COMPANY           (A32)
0230 1 WORK-TITLE             (A32)
0240 1 WORK-DEPARTMENT-NAME   (A32)
0250 1 WORK-DEPARTMENT-NUMBER (A10)
0260 1 WORK-LOCATION          (A32)
0270 1 WORK-ADDRESS           (A60/1:3)
0280 1 WORK-CITY              (A32)
0290 1 WORK-STATE             (A8)
0300 1 WORK-POSTAL-CODE       (A10)
0310 1 WORK-COUNTRY           (A8)
0320 1 WORK-PHONE-1-COUNTRY   (N3)
0330 1 WORK-PHONE-1           (A15)
0340 1 WORK-PHONE-1-EXTENSION (A5)
0350 1 WORK-PHONE-2-COUNTRY   (N3)
0360 1 WORK-PHONE-2           (A15)
0370 1 WORK-PHONE-2-EXTENSION (A5)
0380 1 MOBILE-PHONE-COUNTRY   (N3)
0390 1 MOBILE-PHONE           (A15)
0400 1 MOBILE-PHONE-EXTENSION (A5)
0410 1 FAX-COUNTRY            (N3)
0420 1 FAX                    (A15)
0430 1 FAX-EXTENSION          (A5)
0440 1 CC-FLAG                (A1)
0450 1 CC                     (A20)
0460 1 CC-ADDRESS-TYPE        (N2)
0470 1 CC-ADDRESS-SOURCE      (A1)
0475 1 CC-LAST-FIRST-NAME     (A20)      /* used by Z-GET01D
0480 1 CC-NODE-NAME           (A8)       /* used by Z-GET01D
0485 1 CC-STATUS              (A1)       /* used by Z-GET01D
0490 1 CC-2-FLAG              (A1)
0500 1 CC-2                   (A20)
0510 1 CC-2-ADDRESS-TYPE      (N2)
0520 1 CC-2-ADDRESS-SOURCE    (A1)
0525 1 CC-2-LAST-FIRST-NAME   (A20)      /* used by Z-GET01D
0530 1 CC-2-NODE-NAME         (A8)       /* used by Z-GET01D
0535 1 CC-2-STATUS            (A1)       /* used by Z-GET01D
0540 1 E-MAIL                 (A64)
0550 1 INTERNET               (A64)
0560 1 HOME-ADDRESS           (A60/1:2)
0570 1 HOME-CITY              (A32)
0580 1 HOME-STATE             (A8)
0590 1 HOME-POSTAL-CODE       (A10)
0600 1 HOME-COUNTRY           (A8)
0610 1 HOME-PHONE-COUNTRY     (N3)
0620 1 HOME-PHONE             (A15)
0630 1 HOME-PHONE-EXTENSION   (A5)
0640 1 HOME-FAX-COUNTRY       (N3)
0650 1 HOME-FAX               (A15)
0660 1 HOME-FAX-EXTENSION     (A5)
0670 1 HOME-E-MAIL            (A64)
0680 1 MISCELLANEOUS-HEADER   (A12/1:6)
0690 1 MISCELLANEOUS-DESCRIPTION (A64/1:6)
```

```
0700 1 WORK-PARAMETER         (A83)     /* used by Z-GET01D
0710 *
0720 1 #RETURN-CODE           (N2)
0730 END-DEFINE
0740 *
0750 MOVE 'MYCAB   ' TO CABINET
0760 MOVE 'MYPASSW ' TO PASSWORD
0770 MOVE '*       ' TO NICKNAME
0780 REPEAT
0790   RESET RETURN-CODE
0800   CALLNAT 'Z-GET01D' RETURN-CODE
0810                      CABINET
0820                      PASSWORD
0830                      CABINET-NAME
0840                      NICKNAME
0850                      OBJECT-ISN
0860                      OBJECT-NUMBER
0870                      PRIVATE-FLAG
0880                      LAST-NAME
0890                      FIRST-NAME
0900                      INITIAL
0910                      SEX
0920                      NICKNAME-FOR
0930                      NICKNAME-STATUS
0940                      NICKNAME-ORIGIN
0950                      WORK-COMPANY
0960                      WORK-TITLE
0970                      WORK-DEPARTMENT-NAME
0980                      WORK-DEPARTMENT-NUMBER
0990                      WORK-LOCATION
1000                      WORK-ADDRESS(1:3)
1010                      WORK-CITY
1020                      WORK-STATE
1030                      WORK-POSTAL-CODE
1040                      WORK-COUNTRY
1050                      WORK-PHONE-1-COUNTRY
1060                      WORK-PHONE-1
1070                      WORK-PHONE-1-EXTENSION
1080                      WORK-PHONE-2-COUNTRY
1090                      WORK-PHONE-2
1100                      WORK-PHONE-2-EXTENSION
1110                      MOBILE-PHONE-COUNTRY
1120                      MOBILE-PHONE
1130                      MOBILE-PHONE-EXTENSION
1140                      FAX-COUNTRY
1150                      FAX
1160                      FAX-EXTENSION
1170                      CC-FLAG
1180                      CC
1190                      CC-ADDRESS-TYPE
1200                      CC-ADDRESS-SOURCE
1205                      CC-LAST-FIRST-NAME
1210                      CC-NODE-NAME
1215                      CC-STATUS
1220                      CC-2-FLAG
1230                      CC-2
1240                      CC-2-ADDRESS-TYPE
1250                      CC-2-ADDRESS-SOURCE
1255                      CC-2-LAST-FIRST-NAME
1260                      CC-2-NODE-NAME
1265                      CC-2-STATUS
1270                      E-MAIL
```

```
1280                      INTERNET
1290                      HOME-ADDRESS(1:2)
1300                      HOME-CITY
1310                      HOME-STATE
1320                      HOME-POSTAL-CODE
1330                      HOME-COUNTRY
1340                      HOME-PHONE-COUNTRY
1350                      HOME-PHONE
1360                      HOME-PHONE-EXTENSION
1370                      HOME-FAX-COUNTRY
1380                      HOME-FAX
1390                      HOME-FAX-EXTENSION
1400                      HOME-E-MAIL
1410                      MISCELLANEOUS-HEADER(1:6)
1420                      MISCELLANEOUS-DESCRIPTION(1:6)
1430                      WORK-PARAMETER
1440 *
1450   MOVE RETURN-CODE TO #RETURN-CODE
1460   IF RETURN-CODE EQ 0   OR
1470      RETURN-CODE EQ 77
1480     RESET RETURN-CODE
1490 *
1500   IF MISCELLANEOUS-HEADER(1:6) = ' ' AND MISCELLANEOUS-DESCRIPTION(1:6) = ' '
1510     MOVE RIGHT JUSTIFIED 'Manager'   TO MISCELLANEOUS-HEADER(1)
1520     MOVE RIGHT JUSTIFIED 'Birthday'  TO MISCELLANEOUS-HEADER(2)
1530     MOVE RIGHT JUSTIFIED 'Hobby'     TO MISCELLANEOUS-HEADER(3)
1540     MOVE RIGHT JUSTIFIED 'Assistant' TO MISCELLANEOUS-HEADER(4)
1550     MOVE RIGHT JUSTIFIED 'Spouse'    TO MISCELLANEOUS-HEADER(5)
1560     MOVE RIGHT JUSTIFIED 'Children'  TO MISCELLANEOUS-HEADER(6)
1570 *
1580     CALLNAT 'Z-MOD01D' RETURN-CODE
1590                        CABINET
1600                        PASSWORD
1610                        CABINET-NAME
1620                        NICKNAME
1630                        OBJECT-ISN
1640                        LAST-NAME
1650                        FIRST-NAME
1660                        INITIAL
1670                        SEX
1680                        NICKNAME-FOR
1690                        WORK-COMPANY
1700                        WORK-TITLE
1710                        WORK-DEPARTMENT-NAME
1720                        WORK-DEPARTMENT-NUMBER
1730                        WORK-LOCATION
1740                        WORK-ADDRESS(1:3)
1750                        WORK-CITY
1760                        WORK-STATE
1770                        WORK-POSTAL-CODE
1780                        WORK-COUNTRY
1790                        WORK-PHONE-1-COUNTRY
1800                        WORK-PHONE-1
1810                        WORK-PHONE-1-EXTENSION
1820                        WORK-PHONE-2-COUNTRY
1830                        WORK-PHONE-2
1840                        WORK-PHONE-2-EXTENSION
1850                        MOBILE-PHONE-COUNTRY
1860                        MOBILE-PHONE
1870                        MOBILE-PHONE-EXTENSION
1880                        FAX-COUNTRY
1890                        FAX
```

```
1900                        FAX-EXTENSION
1910                        CC-FLAG
1920                        CC
1930                        CC-ADDRESS-TYPE
1940                        CC-ADDRESS-SOURCE
1950                        CC-2-FLAG
1960                        CC-2
1970                        CC-2-ADDRESS-TYPE
1980                        CC-2-ADDRESS-SOURCE
1990                        E-MAIL
2000                        INTERNET
2010                        HOME-ADDRESS(1:2)
2020                        HOME-CITY
2030                        HOME-STATE
2040                        HOME-POSTAL-CODE
2050                        HOME-COUNTRY
2060                        HOME-PHONE-COUNTRY
2070                        HOME-PHONE
2080                        HOME-PHONE-EXTENSION
2090                        HOME-FAX-COUNTRY
2100                        HOME-FAX
2110                        HOME-FAX-EXTENSION
2120                        HOME-E-MAIL
2130                        MISCELLANEOUS-HEADER(1:6)
2140                        MISCELLANEOUS-DESCRIPTION(1:6)
2150       IF RETURN-CODE NE 0
2160         WRITE 'Z-MOD01D failed. Return code:' RETURN-CODE
2170       ELSE
2180         WRITE 'Misc. changed in Nickname' NICKNAME 'Cabinet' CABINET
2190       END-IF
2200 END-IF
2210   END-IF
2220   IF #RETURN-CODE EQ 77
2230     ESCAPE BOTTOM
2240   END-IF
2250 END-REPEAT
2260 END
```

Z-MOD01T

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Modify a nickname for an address at an external node. This subprogram also applies to an external node which uses the transport service.

If you know the Node-name, but do not know the physical address of the external node (Node-parameters) which has been defined by the administrator, you can invoke Z-GET74 prior to Z-MOD01T to obtain the physical address information.

This subprogram does not check whether the information you specify in the Node-parameters corresponds to the information which has been defined by the administrator. Thus, you can specify different address information in the Node-parameters. However, it is your responsibility to specify the correct information.

The parameters Last-name and First-name can be specified for a specific user at the transport service node. When you are an administrator and modify a nickname in cabinet SYSCNT, this information can be used by all local users in the address management system.

Parameters which are not completed in the parameter list are deleted from the nickname information. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram. There is one exception: when you do not specify Folder-name and File-name, the nickname is automatically stored in folder Work.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET
Cabinet	A8	R		The cabinet in which the nickname is to be modified.
Password	A8	R		The password of the above cabinet.
Nickname	A20	R*	X	The nickname to be modified. Input: either Nickname or ISN; not both.
ISN	P8	R*	X	The ISN of the nickname to be modified. Input: either ISN or Nickname; not both. You can invoke Z-GET01T prior to Z-MOD01T to obtain the ISN for the desired nickname.
Last-name	A32	O		The last name of a user at the transport service node.
First-name	A32	O		The first name of a user at the transport service node. Can only be used when Last-name was specified.
Description	A60/1:4	O		A brief description for the nickname.
Folder-name	A15	O		The folder in which the nickname is to be stored. You must not specify a TRS folder or system folder (except Work). Default: Work.
File-name	A15	O		The file within the above folder in which the nickname is to be stored.
Node-name	A8	O		The name of an existing transport service node which has been added by the administrator.
Node-parameters	A250/1:7	O		The physical address of the transport service node. See **External Communication**.
Post-flag	A1	O		Marking this flag is only useful, if you send mail using the online Con-nect. If marked, a window appears and you can enter additional information before the mail is sent. Therefore, do not mark this flag if you use Z-MAILA to send mail, since the window does not appear in this case.
Private-flag	A1	O		If marked, the nickname is a private object.
Security-flags	A4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
15	Invalid administrator status
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
73	Invalid folder/file name
91	Invalid nickname
93	External node or address does not exist
95	Node name is required

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-150
Z-192
Z-1200&0

Z-MOD05A

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the date and time formats in the user profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

The sequence of the values 1 to 5 in the Date-format parameter defines the order in which the day, month and year appear in all screens. The values mean:

1	The day is shown as a number.
2	The month is shown as a number.
3	The year is shown as a two-digit number.
4	The month is shown as a three-letter abbreviation.
5	The year is shown as a four-digit number.

A delimiter separates the day, month and year values. You can use any character, including blank. For example, when you specify the values 1.4.3 in the parameter Date-format, the date appears as 24.Dec.93 in all screens - when you specify the values 4 1,5 in the parameter Date-format, the date appears as Dec 24,1993 in all screens.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05A always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Date-format	A5	O		See the description above. In case of an invalid Date-format (i.e. if a day (1) and month (2 or 4) has not been specified), the default date format 1.2.3 is used.
Time-format	N1	R		0=24 hour, 1=am/pm
Time-delimiter	A1	O		Character to separate hours and minutes. You can use any character.
Timezone	N2	O		The timezone in which the user is located, relative to the CPU's timezone. The sum of the CPU's and user's timezone must be within the range of -12 through +11. For example, if the CPU's timezone is -5 and a value of +16 is specified in this parameter, it is valid since the sum is +11. Default: 0 (CPU).
Week-start	N1	R		Values 1 to 7 specify the first day of the week to be shown in the Con-nect menu and the calendar screens. 1=Monday, 2=Tuesday ... 7=Sunday.
Day-start	N4	R		Values 0 to 23 specify the start of a 10-hour period which includes the user's working day. 0=midnight ... 9=9:00 am ... 13=1:00 pm ...

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
47	Invalid timezone (range -12 to +11)
91	Supply Cabinet-name or Cabinet-ISN
94	Invalid Time-format
95	Invalid Day-start
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
98	Invalid Week-start
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to modify date and time formats
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE       (N2)
0080 1 CABINET           (A8)
0090 1 PASSWORD          (A8)
0100 1 CABINET-NAME      (A8)
0110 1 CABINET-ISN       (P8)
0120 1 DATE-FORMAT       (A5)
0130 1 TIME-FORMAT       (N1)
0140 1 TIME-DELIMITER    (A1)
0150 1 TIMEZONE          (N2)
0160 1 WEEK-START        (N1)
0170 1 DAY-START         (N4)
0180 END-DEFINE
0190 *
0200 RESET RETURN-CODE
0210 MOVE 'CABINET'      TO CABINET
0220 MOVE 'PASSWORD'     TO PASSWORD
```

```
0230 MOVE 'CAB-NAME'     TO CABINET-NAME
0240 MOVE '1.2.3'        TO DATE-FORMAT
0250 MOVE 1              TO TIME-FORMAT
0260 MOVE ':'            TO TIME-DELIMITER
0270 MOVE -1             TO TIMEZONE
0280 MOVE 1              TO WEEK-START
0290 MOVE 9              TO DAY-START
0300 *
0310 CALLNAT 'Z-MOD05A'
0320     RETURN-CODE
0330     CABINET
0340     PASSWORD
0350     CABINET-NAME
0360     CABINET-ISN
0370     DATE-FORMAT
0380     TIME-FORMAT
0390     TIME-DELIMITER
0400     TIMEZONE
0410     WEEK-START
0420     DAY-START
0430 *
0440 IF RETURN-CODE = 0
0450   WRITE 'CABINET WAS MODIFIED'
0460 ELSE
0470   WRITE 'RETURN CODE' RETURN-CODE
0480 END-IF
0490 *
0500 END
```

Z-MOD05B

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the menu and overlay calendar information in the user profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

The values in the parameters Display-month, Display-mail and Display-calendar define the order in which this information is shown in the menu. The values mean:

0	The information is not displayed.
1	The information displayed first.
2	The information displayed next.
3	The information displayed last.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05B always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Menu-name	A32	O		The name of the menu that is to be used as the main menu. If blank, the menu which has been defined in cabinet SYSCNT is used as the main menu.
Display-month	N1	R		The calendar for the current and next month. See the description above.
Display-mail	N1	R		Inbasket information (number of new phone messages, mail items and invitations). See the description above.
Display-calendar	N1	R		The next entries in the personal calendar (appointments, meetings, reminders and todos). See the description above.
Display-day	A1	O		If marked, the name of the current day is shown below the date in the upper right hand corner of the screens. If blank, the screen number is shown.
Calendar-overlay1	A8	O		The ID of a cabinet to which this cabinet is to have access.
Calendar-overlay2	A8	O		The ID of a cabinet to which this cabinet is to have access.
Window-border	A1	O		The character to be used for the vertical window borders. If the terminal supports reverse video, the window border is always shown in reverse video.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
93	Enter values 0 to 3 for Display-month, Display-mail, and Display-calender
94	Access to calendar not allowed
96	Cabinet-name does not exist
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-GETMSM
Z-106
Z-120
Z-122
Z-123
Z-175
Z-1200&0

Example

```
0010 *
0020 * Example program to modify Menu-Layout of a user profile
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE         (N2)
0080 1 CABINET             (A8)
0090 1 PASSWORD            (A8)
0100 1 CABINET-NAME        (A8)
0110 1 CABINET-ISN         (P8)
0120 1 MENU-NAME           (A32)
0130 1 DISPLAY-MONTH       (N1)
0140 1 DISPLAY-MAIL        (N1)
0150 1 DISPLAY-CALENDAR    (N1)
0160 1 DISPLAY-DAY         (A1)
0170 1 CALENDAR-OVERLAY1   (A8)
0180 1 CALENDAR-OVERLAY2   (A8)
0190 1 WINDOW-BORDER       (A1)
0200 END-DEFINE
0210 *
0220 RESET RETURN-CODE
```

```
0230 MOVE 'CABINET'      TO CABINET
0240 MOVE 'PASSWORD'     TO PASSWORD
0250 MOVE 'CAB-NAME'     TO CABINET-NAME
0260 MOVE ' '            TO MENU-NAME
0270 MOVE 1              TO DISPLAY-MONTH
0280 MOVE 2              TO DISPLAY-MAIL
0290 MOVE 3              TO DISPLAY-CALENDAR
0300 MOVE 'X'            TO DISPLAY-DAY
0310 MOVE 'CAB-ID1'      TO CALENDAR-OVERLAY1
0320 MOVE 'CAB-ID2'      TO CALENDAR-OVERLAY2
0330 MOVE '!'            TO WINDOW-BORDER
0340 *
0350 CALLNAT 'Z-MOD05B'
0360     RETURN-CODE
0370     CABINET
0380     PASSWORD
0390     CABINET-NAME
0400     CABINET-ISN
0410     MENU-NAME
0420     DISPLAY-MONTH
0430     DISPLAY-MAIL
0440     DISPLAY-CALENDAR
0450     DISPLAY-DAY
0460     CALENDAR-OVERLAY1
0470     CALENDAR-OVERLAY2
0480     WINDOW-BORDER
0490 *
0500 IF RETURN-CODE = 0
0510   WRITE 'CABINET WAS MODIFIED'
0520 ELSE
0530   WRITE 'RETURN CODE' RETURN-CODE
0540 END-IF
0550 *
0560 END
```

Z-MOD05C

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the screen colors in the user profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05C always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Colors	N6	R		1=Blue, 2=Green, 3=Neutral, 4=Pink, 5=Red, 6=Turquoise, and 7=Yellow. Redefining colors allows the user to specify the color for a particular field type.
Redefine Colors				
Normal-text	N1	R		
Intense-text	N1	R		
Normal-input	N1	R		
Intense-input	N1	R		
Normal-output	N1	R		
Intense-output	N1	R		

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
93	Valid range for color is 1 to 7
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE         (N2)
0040 1 CABINET             (A8)
0050 1 PASSWORD            (A8)
0060 1 CABINET-NAME        (A8)
0070 1 CABINET-ISN         (P8)
0080 1 COLORS              (N6)
0090 1 REDEFINE COLORS
0100   2 NORMAL-TEXT       (N1)
0110   2 INTENSE-TEXT      (N1)
0120   2 NORMAL-INPUT      (N1)
0130   2 INTENSE-INPUT     (N1)
0140   2 NORMAL-OUTPUT     (N1)
0150   2 INTENSE-OUTPUT    (N1)
0160 END-DEFINE
0170 *
0180 RESET RETURN-CODE
0190 MOVE 'CABINET'      TO CABINET
0200 MOVE 'PASSWORD'     TO PASSWORD
0210 MOVE 'CAB-NAME'     TO CABINET-NAME
0220 MOVE 331335 TO COLORS
0230 *
0240 CALLNAT 'Z-MOD05C'
0250     RETURN-CODE
0260     CABINET
0270     PASSWORD
0280     CABINET-NAME
0290     CABINET-ISN
0300     COLORS
0310 IF RETURN-CODE = 0
0320   WRITE 'CABINET WAS MODIFIED'
0330 ELSE
0340   WRITE 'RETURN CODE' RETURN-CODE
0350 END-IF
0360 END
```

Z-MOD05D

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the print defaults in the user profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05D always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Printer-name	A32	R		The name of a logical printer.
Printer-profile	A32	O		The name of a printer profile
Format-profile	A32	O		The name of a formatting profile.
Page-length	N2	R		The number of lines (1 to 80) per page of printout.
Page-width	N3	R		The number of characters (1 to 249) per line.
Print-banner	A1	O		If marked, the "Info" screen information is printed.
Print-notes	A1	O		If marked, attached notes, cover notes and enclosures are printed.
Print-address	A1	O		If marked, the addressee list of a mail item is printed.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
92	Page-length is 1 to 80 lines per page; Page-width is 1 to 249 characters per line
93	No printer defined with this name
94	Printer-profile not found
95	Format-profile must be alphanumeric
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
98	Printer-name can not be blank
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to modify print profile of a cabinet
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE         (N2)
0080 1 CABINET             (A8)
0090 1 PASSWORD            (A8)
0100 1 CABINET-NAME        (A8)
0110 1 CABINET-ISN         (P8)
0120 1 PRINTER-NAME        (A32)
0130 1 PRINTER-PROFILE     (A32)
0140 1 FORMAT-PROFILE      (A32)
0150 1 PAGE-LENGTH         (N2)
0160 1 PAGE-WIDTH          (N3)
0170 1 PRINT-BANNER        (A1)
0180 1 PRINT-NOTES         (A1)
0190 1 PRINT-ADDRESS       (A1)
0200 END-DEFINE
```

```
0210 *
0220 RESET RETURN-CODE
0230 MOVE 'CABINET'         TO CABINET
0240 MOVE 'PASSWORD'        TO PASSWORD
0250 MOVE 'CAB-NAME'        TO CABINET-NAME
0260 MOVE 'PRINTER-NAME'    TO PRINTER-NAME
0270 MOVE 'PRINTER-PROFILE' TO PRINTER-PROFILE
0280 MOVE 'FORMAT-PROFILE'  TO FORMAT-PROFILE
0290 MOVE 60                TO PAGE-LENGTH
0300 MOVE 132               TO PAGE-WIDTH
0310 MOVE 'X'               TO PRINT-BANNER
0320 MOVE 'X'               TO PRINT-NOTES
0330 MOVE 'X'               TO PRINT-ADDRESS
0340 *
0350 CALLNAT 'Z-MOD05D'
0360     RETURN-CODE
0370     CABINET
0380     PASSWORD
0390     CABINET-NAME
0400     CABINET-ISN
0410     PRINTER-NAME
0420     PRINTER-PROFILE
0430     FORMAT-PROFILE
0440     PAGE-LENGTH
0450     PAGE-WIDTH
0460     PRINT-BANNER
0470     PRINT-NOTES
0480     PRINT-ADDRESS
0490 *
0500 IF RETURN-CODE = 0
0510   WRITE 'CABINET WAS MODIFIED'
0520 ELSE
0530   WRITE 'RETURN CODE' RETURN-CODE
0540 END-IF
0550 *
0560 END
```

Z-MOD05E

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the language code, default command sequence, blank substitute character and autosave interval in the user profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05E always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Language-code	N1	R		Only codes for languages which have been installed on the system are valid. 1=English; 2=German; 3=French; 4=Spanish; 5=Italian; 6=Dutch; 7=Turkish, Icelandic, Finnish, Swedish; 8=Danish, Hebrew; 9=Norwegian, Portuguese (Brazilian), Arabic, Russian.
Library-name	A8	R		Library in which Con-nect is installed.
Command-sequence	A1	O		If blank, the sequence "command object name" is used. If marked, the alternative sequence "object name command" is used.
Blank-substitute	A1	O		The character which must be entered in place of a blank when specifying a name or date. The characters "*", "." and "X" are not allowed.
Autosave	N2	O		The frequency with which the "(Undo *Document-name*)" version of a document or the menulines in the menu editor is updated. You can specify a number between 1 and 99. If a value has not been specified, or if an invalid value has been specified, this is set to 10 (default); a return code is not issued.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
93	Language not available
94	Do not use "*", "." or "X" for the Blank-substitute parameter
95	Enter library name where Con-nect is installed
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-163
Z-168
Z-1200&0

Example

```
0010 *
0020 * Example program to modify the language code of a cabinet
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE         (N2)
0080 1 CABINET             (A8)
0090 1 PASSWORD            (A8)
0100 1 CABINET-NAME        (A8)
0110 1 CABINET-ISN         (P8)
0120 1 LANGUAGE-CODE       (N1)
0130 1 LIBRARY-NAME        (A8)
0140 1 COMMAND-SEQUENCE    (A1)
0150 1 BLANK-SUBSTITUTE    (A1)
0160 1 AUTOSAVE            (N2)
0170 END-DEFINE
0180 *
0190 RESET RETURN-CODE
0200 MOVE 'CABINET'      TO CABINET
0210 MOVE 'PASSWORD'     TO PASSWORD
```

```
0220 MOVE 'CAB-NAME'     TO CABINET-NAME
0230 MOVE 1              TO LANGUAGE-CODE
0240 MOVE 'LIBRARY'      TO LIBRARY-NAME
0250 MOVE ' '            TO COMMAND-SEQUENCE
0260 MOVE '/'            TO BLANK-SUBSTITUTE
0270 MOVE 5              TO AUTOSAVE
0280 *
0290 CALLNAT 'Z-MOD05E'
0300     RETURN-CODE
0310     CABINET
0320     PASSWORD
0330     CABINET-NAME
0340     CABINET-ISN
0350     LANGUAGE-CODE
0360     LIBRARY-NAME
0370     COMMAND-SEQUENCE
0380     BLANK-SUBSTITUTE
0390     AUTOSAVE
0400 IF RETURN-CODE = 0
0410   WRITE 'Cabinet was modified'
0420 ELSE
0430   WRITE 'Return code' RETURN-CODE
0440 END-IF
0450 END
```

Z-MOD05F

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the cabinet profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the cabinet profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the cabinet profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05F always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Security-flags	A4	R		See the redefinition below.
Redefine Security-flags				
Security-read	A1	R		The security level for Read. A value between 0 and 9.
Security-modify	A1	R		The security level for Modify. A value between 0 and 9.

Parameter	Format	In	Out	Remarks
Security-copy	A1	R		The security level for Copy. A value between 0 and 9.
Security-print	A1	R		The security level for Print. A value between 0 and 9.
Send-maximum	N4	R		The maximum number of addressees to whom an object can be sent during one Send operation. Values 1 to 9999.
Address-level	N1	O		The address level establishes limitations for the Send function. A value between 0 and 9. The sum of Address-level and Send-plus must not be greater than 9.
Send-plus	N1	O		The number of levels higher to which the user is allowed to send mail. A value between 0 and 9. The sum of Send-plus and Address-level must not be greater than 9.
Allow-flags	A12	O		See the redefinition below.
Redefine Allow-flags				
Command-prompt	A1	O		If marked, a window appears, if a faulty or ambiguous command is entered.
Con-form	A1	O		If marked, Con-form can be used.
Text-Retrieval	A1	O		If marked, Con-nect Text Retrieval can be used (if installed).
Proofreader	A1	O		Con-nect Proofreader is no longer supported.
Modify-own-address	A1	O		If marked, the user can change the own work or home address.
Display-home-address	A1	O		If marked, the user can display the home address of any user (including the user’s own address).
Send-external-mail	A1	O		If marked, the user can send mail to external nodes such as Telex or SNADS.
Modify-expiration-date	A1	O		If marked, the user can change the expiration date of an object.
Read-mail	A1	O		If marked, the user can read mail in the user’s own Inbasket.
Filler	A3	O		For future use.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
92	Invalid value for Send-maximum, must be greater than 0
93	Enter numeric values
94	Combining Address-level and Send-plus must not be greater than 9
95	Values must not be higher than system values
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to modify the cabinet profile of a user
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE              (N2)
0080 1 CABINET                  (A8)
0090 1 PASSWORD                 (A8)
0100 1 CABINET-NAME             (A8)
0110 1 CABINET-ISN              (P8)
0120 1 SECURITY-FLAGS           (A4)
0130 1 REDEFINE SECURITY-FLAGS
0140   2 SECURITY-READ          (A1)
0150   2 SECURITY-MODIFY        (A1)
0160   2 SECURITY-COPY          (A1)
0170   2 SECURITY-PRINT         (A1)
0180 1 SEND-MAXIMUM             (N4)
0190 1 ADDRESS-LEVEL            (N1)
0200 1 SEND-PLUS                (N1)
0210 1 ALLOW-FLAGS              (A12)
0220 1 REDEFINE ALLOW-FLAGS
```

```
0230   2 COMMAND-PROMPT          (A1)
0240   2 CON-FORM                (A1)
0250   2 TEXT-RETRIEVAL          (A1)
0260   2 PROOFREADER             (A1)
0270   2 MODIFY-OWN-ADDRESS      (A1)
0280   2 DISPLAY-HOME-ADDRESS    (A1)
0290   2 SEND-EXTERNAL-MAIL      (A1)
0300   2 MODIFY-EXPIRATION-DATE  (A1)
0310   2 READ-MAIL               (A1)
0320 END-DEFINE
0330 *
0340 RESET RETURN-CODE
0350 MOVE 'CABINET'      TO CABINET
0360 MOVE 'PASSWORD'     TO PASSWORD
0370 MOVE 'CAB-NAME'     TO CABINET-NAME
0380 MOVE '3' TO SECURITY-READ
0390 MOVE '3' TO SECURITY-MODIFY
0400 MOVE '3' TO SECURITY-COPY
0410 MOVE '3' TO SECURITY-PRINT
0420 MOVE 5 TO SEND-MAXIMUM
0430 MOVE 5 TO ADDRESS-LEVEL
0440 MOVE 1 TO SEND-PLUS
0450 MOVE 'X' TO COMMAND-PROMPT
0460 MOVE 'X' TO CON-FORM
0470 MOVE 'X' TO TEXT-RETRIEVAL
0480 MOVE 'X' TO PROOFREADER
0490 MOVE 'X' TO MODIFY-OWN-ADDRESS
0500 MOVE 'X' TO DISPLAY-HOME-ADDRESS
0510 MOVE 'X' TO SEND-EXTERNAL-MAIL
0520 MOVE 'X' TO MODIFY-EXPIRATION-DATE
0530 MOVE 'X' TO READ-MAIL
0540 *
0550 CALLNAT 'Z-MOD05F'
0560     RETURN-CODE
0570     CABINET
0580     PASSWORD
0590     CABINET-NAME
0600     CABINET-ISN
0610     SECURITY-FLAGS
0620     SEND-MAXIMUM
0630     ADDRESS-LEVEL
0640     SEND-PLUS
0650     ALLOW-FLAGS
0660 *
0670 IF RETURN-CODE = 0
0680   WRITE 'Cabinet was modified'
0690 ELSE
0700   WRITE 'Return code' RETURN-CODE
0710 END-IF
0720 *
0730 END
```

Z-MOD05H

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the mail status message in the user profile of a specific cabinet.

This subprogram can be used by a supervisor, cabinet administrator, user of a private cabinet, or by a shared user who is authorized to modify the mail status message. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

The date range between Start-date and End-date must be equal to or less than 1095 days (otherwise the return code 43 is issued). Start-date and End-date are computed according to the given time zone.

If a time zone is not specified, the Start-time and End-time are interpreted as GMT (0). If these values are to be put into a different time zone, the difference must be entered into the parameter Timezone.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided. In this case, the mail status message appears during the entire day.

Successful termination of Z-MOD05H always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor, cabinet administrator, private cabinet, or of a shared user who is authorized to modify the mail status message.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P10	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Set-message	A1	O		If marked, the mail status message is displayed when another user sends mail to this cabinet.
Mail-status-message	A37/1:10	O		The message that is to be displayed when another user sends mail to this cabinet. When you do not specify a message, a previously defined message will be deleted.
Start-date	A8	R		The (starting) date for the mail status message. Format yyyymmdd.
Start-time	A8	O		The starting time for the mail status message. Format hhmm.
End-date	A8	O		The ending date for the mail status message. It must not occur later than 3 years (1095 days) after the starting date. Format yyyymmdd.
End-time	A8	O		The ending time for the mail status message. Format hhmm.
Timezone	N2	O		Default: 0 (GMT). Values -12 to +11.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
47	Invalid timezone
91	Supply Cabinet-name or Cabinet-ISN
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

N-IDATCM
Z-GETMSM
Z-0106C
Z-120
Z-122
Z-123
Z-160
Z-175
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE         (N2)
0040 1 CABINET             (A8)
0050 1 PASSWORD            (A8)
0060 1 CABINET-NAME        (A8)
0070 1 CABINET-ISN         (P10)
0080 1 SET-MESSAGE         (A1)
0090 1 MAIL-STATUS-MESSAGE (A37/1:10)
0100 1 START-DATE          (A8)
0110 1 START-TIME          (A8)
0120 1 END-DATE            (A8)
0130 1 END-TIME            (A8)
0140 1 TIMEZONE            (N2)
```

```
0150 *
0160 1 #INX (P3)
0170 *
0180 END-DEFINE
0190 *
0200 RESET RETURN-CODE
0210 MOVE 'CABINET'   TO CABINET
0220 MOVE 'PASSWORD'  TO PASSWORD
0230 MOVE 'CAB-NAME'  TO CABINET-NAME
0240 MOVE 'X'         TO SET-MESSAGE
0250 FOR #INX 1 TO 10
0260   MOVE 'I'll be back next monday' TO MAIL-STATUS-MESSAGE(#INX)
0270 END-FOR
0280 MOVE '19960318' TO START-DATE
0290 MOVE '0800'     TO START-TIME
0300 MOVE '19960322' TO END-DATE
0310 MOVE '1800'     TO END-TIME
0320 MOVE 1          TO TIMEZONE
0330 *

0340 CALLNAT 'Z-MOD05H'
0350     RETURN-CODE
0360     CABINET
0370     PASSWORD
0380     CABINET-NAME
0390     CABINET-ISN
0400     SET-MESSAGE
0410     MAIL-STATUS-MESSAGE(*)
0420     START-DATE
0430     START-TIME
0440     END-DATE
0450     END-TIME
0460     TIMEZONE
0470 *
0480 IF RETURN-CODE = 0
0490   WRITE 'Cabinet was modified'
0500 ELSE
0510   WRITE 'Return code' RETURN-CODE
0520 END-IF
0530 *
0540 END
```

Z-MOD05I

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the date and time formats and the sliding window (YSLW) value in the user profile of a specific cabinet.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

The sequence of the values 1 to 5 in the Date-format parameter defines the order in which the day, month and year appear in all screens. The values mean:

1	The day is shown as a number.
2	The month is shown as a number.
3	The year is shown as a two-digit number.
4	The month is shown as a three-letter abbreviation.
5	The year is shown as a four-digit number.

A delimiter separates the day, month and year values. You can use any character, including blank. For example, when you specify the values 1.4.3 in the parameter Date-format, the date appears as 24.Dec.98 in all screens - when you specify the values 4 1,5 in the parameter Date-format, the date appears as Dec 24,1998 in all screens.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05I always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Date-format	A5	O		See the description above. In case of an invalid Date-format (i.e. if a day (1) and month (2 or 4) has not been specified), the default date format 1.2.3 is used.
Time-format	N1	R		0=24 hour, 1=am/pm
Time-delimiter	A1	O		Character to separate hours and minutes. You can use any character.
Timezone	N2	O		The timezone in which the user is located, relative to the CPU's timezone. The sum of the CPU's and user's timezone must be within the range of -12 through +11. For example, if the CPU's timezone is -5 and a value of +16 is specified in this parameter, it is valid since the sum is +11. Default: 0 (CPU).
Week-start	N1	R		Values 1 to 7 specify the first day of the week to be shown in the Con-nect menu and the calendar screens. 1=Monday, 2=Tuesday ... 7=Sunday.
Day-start	N4	R		Values 0 to 23 specify the start of a 10-hour period which includes the user's working day. 0=midnight ... 9=9:00 am ... 13=1:00 pm ...
Use-system-SLW	A1	R*		If marked, the value of the sliding window defined in the system defaults is used. Either Use-system-SLW or Sliding-window, not both.
Sliding-window	A2	R*		A value between 0 and 99. Either Sliding-window or Use-system-SLW, not both.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
47	Invalid timezone (range -12 to +11)
90	Either Use-system-SLW or Sliding-window, not both.
91	Supply Cabinet-name or Cabinet-ISN
93	Invalid Sliding-window value
94	Invalid Time-format
95	Invalid Day-start
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
98	Invalid Week-start
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 Example program to modify date and time formats.
0020 *
0030 DEFINE DATA
0040 LOCAL
0050 *
0060 1 RETURN-CODE      (N2)
0070 1 CABINET          (A8)
0080 1 PASSWORD         (A8)
0090 1 CABINET-NAME     (A8)
0100 1 CABINET-ISN      (P8)
0110 1 DATE-FORMAT      (A5)
0120 1 TIME-FORMAT      (N1)
0130 1 TIME-DELIMITER   (A1)
0140 1 TIMEZONE         (N2)
0150 1 WEEK-START       (N1)
0160 1 DAY-START        (N4)
0170 1 USE-SYSTEM-SLW   (A1)
0180 1 SLIDING-WINDOW   (N2)
```

```
0190 END-DEFINE
0200 *
0210 RESET RETURN-CODE
0220 MOVE 'CABINET ' TO CABINET
0230 MOVE 'PASSWORD' TO PASSWORD
0240 MOVE 'CAB-NAME' TO CABINET-NAME
0250 MOVE '1.2.3'    TO DATE-FORMAT
0260 MOVE  1         TO TIME-FORMAT
0270 MOVE ':'        TO TIME-DELIMITER
0280 MOVE -1         TO TIMEZONE
0290 MOVE  1         TO WEEK-START
0300 MOVE  9         TO DAY-START
0310 RESET           USE-SYSTEM-SLW
0320 MOVE  95        TO SLIDING-WINDOW
0330 *
0340 CALLNAT 'Z-MOD05I' RETURN-CODE
0350   CABINET
0360   PASSWORD
0370   CABINET-NAME
0380   CABINET-ISN
0390   DATE-FORMAT
0400   TIME-FORMAT
0410   TIME-DELIMITER
0420   TIMEZONE
0430   WEEK-START
0440   DAY-START
0450   USE-SYSTEM-SLW
0460   SLIDING-WINDOW
0470 *
0480 WRITE
0490   / '='  CABINET
0500   / '='  PASSWORD
0510   / '='  CABINET-NAME
0520   / '='  CABINET-ISN
0530   / '='  DATE-FORMAT
0540   / '='  TIME-FORMAT
0550   / '='  TIME-DELIMITER
0560   / '='  TIMEZONE
0570   / '='  WEEK-START
0580   / '='  DAY-START
0590   / '='  USE-SYSTEM-SLW
0600   / '='  SLIDING-WINDOW /
0610 *
0620 IF RETURN-CODE EQ 0
0630  WRITE 'Cabinet was modified'
0640 ELSE
0650  WRITE 'Return code' RETURN-CODE
0660 END-IF
0670 *
0680 END
```

Z-MOD05J

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the mail status message in the user profile of a specific cabinet.

This subprogram is similar to Z-MOD05H with the exception that you can also modify the Cc information. If Cc is specified in the mail status message, it informs who is to receive a copy of each mail item that is sent to this user. Cc can be a nickname, user ID, cabinet name or bulletin board.

This subprogram can be used by a supervisor, cabinet administrator, user of a private cabinet, or by a shared user who is authorized to modify the mail status message. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

To fill the parameters with the already existing mail status message values, you can invoke Z-MLGETB prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

The date range between Start-date and End-date must be equal to or less than 1095 days (otherwise the return code 43 is issued). Start-date and End-date are computed according to the given time zone.

If a time zone is not specified, the Start-time and End-time are interpreted as GMT (0). If these values are to be put into a different time zone, the difference must be entered into the parameter Timezone.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided. In this case, the mail status message appears during the entire day.

Successful termination of Z-MOD05J always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor, cabinet administrator, private cabinet, or of a shared user who is authorized to modify the mail status message.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P10	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Set-message	A1	O		If marked, the mail status message is displayed when another user sends mail to this cabinet.
Mail-status-message	A37/1:10	O		The message that is to be displayed when another user sends mail to this cabinet. When you do not specify a message, a previously defined message will be deleted.
Start-date	A8	R		The (starting) date for the mail status message. Format yyyymmdd.
Start-time	A8	O		The starting time for the mail status message. Format hhmm.
End-date	A8	O		The ending date for the mail status message. It must not occur later than 3 years (1095 days) after the starting date. Format yyyymmdd.
End-time	A8	O		The ending time for the mail status message. Format hhmm.
Timezone	N2	O		Default: 0 (GMT). Values -12 to +11.
Cc-flag	A1	O		Mark to activate Cc.
Cc	A20	O		Address, cabinet, user ID of addressee, or bulletin board to receive copy of mail.
Cc-address-type	N2	O		If Cc is specified, this must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.
Cc-address-source	A1	O		Only if Cc-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
47	Invalid timezone
91	Supply Cabinet-name or Cabinet-ISN
94	Invalid Cc
95	Cc was not found
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

N-IDATCM
Z-GETMSM
Z-0106C
Z-120
Z-122
Z-123
Z-160
Z-175
Z-723
Z-1200&0

Example

```
0010 ************************************************************************
0020 * Modify the mail status message of a user
0030 ************************************************************************
0040 *
0050 DEFINE DATA
0060 *
0070 LOCAL
0080 *
0090 1 RETURN-CODE           (N2)
```

```
0100 1 CABINET               (A8)
0110 1 PASSWORD              (A8)
0120 1 CABINET-NAME          (A8)
0130 1 CABINET-ISN           (P10)
0140 1 SET-MESSAGE           (A1)
0150 1 MAIL-STATUS-MESSAGE   (A37/1:10)
0160 1 START-DATE            (A8)
0170 1 START-TIME            (A5)
0180 1 END-DATE              (A8)
0190 1 END-TIME              (A5)
0200 1 TIMEZONE              (N2)
0210 1 CC-FLAG               (A1)
0220 1 CC                    (A20)
0230 1 CC-ADDRESS-TYPE       (N2)
0240 1 CC-ADDRESS-SOURCE     (A1)
0250 *
0260 1 #INX                  (P3)
0270 *
0280 END-DEFINE
0290 *
0300 RESET RETURN-CODE
0310 MOVE 'CABINET'  TO CABINET
0320 MOVE 'PASSWORD' TO PASSWORD
0330 MOVE 'CAB-NAME' TO CABINET-NAME
0340 MOVE 'X'        TO SET-MESSAGE
0350 FOR #INX 1 TO 10
0360   MOVE 'I''ll be back next monday' TO MAIL-STATUS-MESSAGE(#INX)
0370 END-FOR
0380 MOVE '20000117' TO START-DATE
0390 MOVE '08:00'    TO START-TIME
0400 MOVE '20000124' TO END-DATE
0410 MOVE '18:00'    TO END-TIME
0420 MOVE 1          TO TIMEZONE
0430 MOVE 'X'        TO CC-FLAG
0440 MOVE 'CAB-NEXT' TO CC
0450 MOVE 33         TO CC-ADDRESS-TYPE
0460 *
0470 CALLNAT 'Z-MOD05J'
0480     RETURN-CODE
0490     CABINET
0500     PASSWORD
0510     CABINET-NAME
0520     CABINET-ISN
0530     SET-MESSAGE
0540     MAIL-STATUS-MESSAGE(*)
0550     START-DATE
0560     START-TIME
0570     END-DATE
0580     END-TIME
0590     TIMEZONE
0600     CC-FLAG
0610     CC
0620     CC-ADDRESS-TYPE
0630     CC-ADDRESS-SOURCE
0640 *
0650   IF RETURN-CODE EQ 0
0660     WRITE 'Cabinet was modified'
0670   ELSE
0680     WRITE 'Return code' RETURN-CODE
0690   END-IF
0700 *
0710 END
```

Z-MOD05K

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the print defaults in the user profile of a specific cabinet.

This subprogram is the same as Z-MOD05D with the exception that you can specify additional parameters: Left-margin and Wrap-printed-text.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Successful termination of Z-MOD05K always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P8	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Printer-name	A32	R		The name of a logical printer.
Printer-profile	A32	O		The name of a printer profile
Format-profile	A32	O		The name of a formatting profile.
Page-length	N2	R		The number of lines (1 to 80) per page of printout.
Page-width	N3	R		The number of characters (1 to 249) per line.
Left-margin	N2	O		Left margin.
Wrap-printed-text	A1	O		If marked, the text is wrapped. If not marked, the text is truncated.
Print-banner	A1	O		If marked, the "Info" screen information is printed.
Print-notes	A1	O		If marked, attached notes, cover notes and enclosures are printed.
Print-address	A1	O		If marked, the addressee list of a mail item is printed.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
92	Page-length is 1 to 80 lines per page; Page-width is 1 to 249 characters per line
93	No printer defined with this name
94	Printer-profile not found
95	Format-profile must be alphanumeric
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
98	Printer-name can not be blank
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Example program to modify print profile of a cabinet
0030 *
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE         (N2)
0080 1 CABINET             (A8)
0090 1 PASSWORD            (A8)
0100 1 CABINET-NAME        (A8)
0110 1 CABINET-ISN         (P8)
0120 1 PRINTER-NAME        (A32)
0130 1 PRINTER-PROFILE     (A32)
0140 1 FORMAT-PROFILE      (A32)
0150 1 PAGE-LENGTH         (N2)
0160 1 PAGE-WIDTH          (N3)
0170 1 LEFT-MARGIN         (N2)
0180 1 WRAP-PRINTED-TEXT   (A1)
0190 1 PRINT-BANNER        (A1)
0200 1 PRINT-NOTES         (A1)
```

```
0210 1 PRINT-ADDRESS       (A1)
0220 END-DEFINE
0230 *
0240 RESET RETURN-CODE
0250 MOVE 'CABINET'         TO CABINET
0260 MOVE 'PASSWORD'        TO PASSWORD
0270 MOVE 'CAB-NAME'        TO CABINET-NAME
0280 MOVE 'PRINTER-NAME'    TO PRINTER-NAME
0290 MOVE 'PRINTER-PROFILE' TO PRINTER-PROFILE
0300 MOVE 'FORMAT-PROFILE'  TO FORMAT-PROFILE
0310 MOVE 60                TO PAGE-LENGTH
0320 MOVE 132               TO PAGE-WIDTH
0330 MOVE 10                TO LEFT-MARGIN
0340 MOVE 'X'               TO WRAP-PRINTED-TEXT
0350 MOVE 'X'               TO PRINT-BANNER
0360 MOVE 'X'               TO PRINT-NOTES
0370 MOVE 'X'               TO PRINT-ADDRESS
0380 *
0390 CALLNAT 'Z-MOD05K'
0400     RETURN-CODE
0410     CABINET
0420     PASSWORD
0430     CABINET-NAME
0440     CABINET-ISN
0450     PRINTER-NAME
0460     PRINTER-PROFILE
0470     FORMAT-PROFILE
0480     PAGE-LENGTH
0490     PAGE-WIDTH
0500     LEFT-MARGIN
0510     WRAP-PRINTED-TEXT
0520     PRINT-BANNER
0530     PRINT-NOTES
0540     PRINT-ADDRESS
0550 *
0560 IF RETURN-CODE = 0
0570   WRITE 'Cabinet was modified'
0580 ELSE
0590   WRITE 'Return code' RETURN-CODE
0600 END-IF
0610 *
0620 END
```

Z-MOD05L

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the mail status message in the user profile of a specific cabinet.

This subprogram is similar to Z-MOD05J with the exception that you can also specify that the time range is not to be shown when the mail status message is displayed.

This subprogram can be used by a supervisor, cabinet administrator, user of a private cabinet, or by a shared user who is authorized to modify the mail status message. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

To fill the parameters with the already existing mail status message values, you can invoke Z-MLGETC prior to this subprogram.

Parameters which are not completed in the parameter list are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

The date range between Start-date and End-date must be equal to or less than 1095 days (otherwise the return code 43 is issued). Start-date and End-date are computed according to the given time zone.

If a time zone is not specified, the Start-time and End-time are interpreted as GMT (0). If these values are to be put into a different time zone, the difference must be entered into the parameter Timezone.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided. In this case, the mail status message appears during the entire day.

Successful termination of Z-MOD05L always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor, cabinet administrator, private cabinet, or of a shared user who is authorized to modify the mail status message.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P10	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Set-message	A1	O		If marked, the mail status message is displayed when another user sends mail to this cabinet.
Mail-status-message	A37/1:10	O		The message that is to be displayed when another user sends mail to this cabinet. When you do not specify a message, a previously defined message will be deleted.
Start-date	A8	R		The (starting) date for the mail status message. Format yyyymmdd.
Start-time	A8	O		The starting time for the mail status message. Format hhmm.
End-date	A8	O		The ending date for the mail status message. It must not occur later than 3 years (1095 days) after the starting date. Format yyyymmdd.
End-time	A8	O		The ending time for the mail status message. Format hhmm.
Timezone	N2	O		Default: 0 (GMT). Values -12 to +11.
Cc-flag	A1	O		Mark to activate Cc.
Cc	A20	O		Address, cabinet, user ID of addressee, or bulletin board to receive copy of mail.
Cc-address-type	N2	O		If Cc is specified, this must be one of the following: 1=address (nickname), 4=bulletin board, 5=cabinet, 33=user ID.
Cc-address-source	A1	O		Only if Cc-address-type is 1 (address): S=address is from cabinet SYSCNT. Blank=address is from Cabinet-name.
Hide-date-time	A1	O		If marked, the time range in which the mail status message is to appear is not shown in the mail status window.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
47	Invalid timezone
91	Supply Cabinet-name or Cabinet-ISN
94	Invalid Cc
95	Cc was not found
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

N-IDATCM
Z-GETMSM
Z-0106C
Z-120
Z-122
Z-123
Z-160
Z-175
Z-723
Z-1200&0

Example

```
************************************************************************
* Modify the mail status message of a user
************************************************************************
*
DEFINE DATA
*
LOCAL
*
1 RETURN-CODE           (N2)
1 CABINET               (A8)
1 PASSWORD              (A8)
1 CABINET-NAME          (A8)
1 CABINET-ISN           (P10)
1 SET-MESSAGE           (A1)
1 MAIL-STATUS-MESSAGE   (A37/1:10)
1 START-DATE            (A8)
1 START-TIME            (A5)
1 END-DATE              (A8)
1 END-TIME              (A5)
1 TIMEZONE              (N2)
1 CC-FLAG               (A1)
1 CC                    (A20)
1 CC-ADDRESS-TYPE       (N2)
1 CC-ADDRESS-SOURCE     (A1)
1 HIDE-DATE-TIME        (A1)
*
1 #INX                  (P3)
*
END-DEFINE
*
RESET RETURN-CODE
MOVE 'CABINET'  TO CABINET
MOVE 'PASSWORD' TO PASSWORD
MOVE 'CAB-NAME' TO CABINET-NAME
MOVE 'X'        TO SET-MESSAGE
FOR #INX 1 TO 10
  MOVE 'I''ll be back next monday' TO MAIL-STATUS-MESSAGE(#INX)
END-FOR
MOVE '20020126' TO START-DATE
MOVE '08:00'    TO START-TIME
MOVE '20020204' TO END-DATE
MOVE '18:00'    TO END-TIME
MOVE 1          TO TIMEZONE
MOVE 'X'        TO CC-FLAG
MOVE 'ESH'      TO CC
MOVE 33         TO CC-ADDRESS-TYPE
MOVE 'X'        TO HIDE-DATE-TIME
*
CALLNAT 'Z-MOD05L'
  RETURN-CODE
  CABINET
  PASSWORD
  CABINET-NAME
  CABINET-ISN
  SET-MESSAGE
  MAIL-STATUS-MESSAGE(*)
  START-DATE
  START-TIME
  END-DATE
  END-TIME
```

```
  TIMEZONE
  CC-FLAG
  CC
  CC-ADDRESS-TYPE
  CC-ADDRESS-SOURCE
  HIDE-DATE-TIME
*
  IF RETURN-CODE EQ 0
    WRITE 'Cabinet' CABINET-NAME 'was modified'
  ELSE
    WRITE 'Return code' RETURN-CODE
  END-IF
*
END
```

Z-MOD05M

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the language code, system folder names, default command sequence, blank substitute character and autosave interval in the user profile of a specific cabinet.

This subprogram is similar to Z-MOD05E with the exception that you can also rename the cabinet's system folders (including all of their files). The parameter Cabinet-ISN uses the format P10.

This subprogram can be used only by a supervisor or cabinet administrator. It is not possible to use this subprogram to modify the user profile of the cabinet SYSCNT or to rename the system folders in cabinet SYSCNT.

To get the ISN for the wanted cabinet, you can invoke either Z-ADD05 or Z-DIS05 prior to this subprogram.

Parameters which are not completed in the parameter list (except Language-code) are deleted from the user profile. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram. If you do not specify a new value for the language code, the old value is retained.

Successful termination of Z-MOD05M always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R*		The name of the cabinet to be modified. Either Cabinet-name or Cabinet-ISN, not both.
Cabinet-ISN	P10	R*		The ISN of the cabinet to be modified. Either Cabinet-ISN or Cabinet-name, not both.
Language-code	N1	O		Only codes for languages which have been installed on the system are valid. 1=English; 2=German; 3=French; 4=Spanish; 5=Italian; 6=Dutch; 7=Turkish, Icelandic, Finnish, Swedish; 8=Danish, Hebrew; 9=Norwegian, Portuguese (Brazilian), Arabic, Russian.If blank, the previously language code is retained.
Library-name	A8	R		Library in which Con-nect is installed.
Command-sequence	A1	O		If blank, the sequence "command object name" is used. If marked, the alternative sequence "object name command" is used.
Rename-system-folders	A1	O		If marked, the names of all system folders (e.g. Inbasket and Outbasket) are translated into the language that has been defined for this cabinet. If not marked, the names of the system folders are not changed.
Blank-substitute	A1	O		The character which must be entered in place of a blank when specifying a name or date. The characters "*", "." and "X" are not allowed.
Autosave	N2	O		The frequency with which the "(Undo *Document-name*)" version of a document or the menulines in the menu editor is updated. You can specify a number between 1 and 99. If a value has not been specified, or if an invalid value has been specified, this is set to 10 (default); a return code is not issued.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
91	Supply Cabinet-name or Cabinet-ISN
93	Language not available
94	Do not use "*", "." or "X" for the Blank-substitute parameter
95	Enter library name where Con-nect is installed
96	Cabinet-name is not valid
97	Cabinet-ISN is not valid
99	Cabinet SYSCNT cannot be modified

Subprograms

Z-120
Z-122
Z-123
Z-163
Z-168
Z-175
Z-1200&0

Example

```
*
* Example program to modify the language code of a cabinet
* and to rename the system folders/files of this cabinet
*
DEFINE DATA
LOCAL
1 RETURN-CODE           (N2)
1 CABINET               (A8)
1 PASSWORD              (A8)
1 CABINET-NAME          (A8)
1 CABINET-ISN           (P10)
1 LANGUAGE-CODE         (N1)
1 LIBRARY-NAME          (A8)
1 COMMAND-SEQUENCE      (A1)
1 RENAME-SYSTEM-FOLDERS (A1)
1 BLANK-SUBSTITUTE      (A1)
1 AUTOSAVE              (N2)
END-DEFINE
*
RESET RETURN-CODE
MOVE 'CABINET'      TO CABINET
MOVE 'PASSWORD'     TO PASSWORD
MOVE 'CAB-NAME'     TO CABINET-NAME
MOVE 1              TO LANGUAGE-CODE
MOVE 'LIBRARY'      TO LIBRARY-NAME
MOVE ' '            TO COMMAND-SEQUENCE
MOVE 'X'            TO RENAME-SYSTEM-FOLDERS
MOVE '/'            TO BLANK-SUBSTITUTE
MOVE 5              TO AUTOSAVE
*
CALLNAT 'Z-MOD05M'
    RETURN-CODE
    CABINET
    PASSWORD
    CABINET-NAME
    CABINET-ISN
    LANGUAGE-CODE
    LIBRARY-NAME
    COMMAND-SEQUENCE
    RENAME-SYSTEM-FOLDERS
    BLANK-SUBSTITUTE
    AUTOSAVE
*
IF RETURN-CODE EQ 0
  WRITE 'Cabinet' CABINET-NAME 'was modified'
ELSE
  WRITE 'Return code' RETURN-CODE
END-IF
*
END
```

Z-MOD06

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify an appointment or meeting.

If the originator modifies the basic information of a meeting (date, time, subject, location or agenda) after the invitations have been sent, a new version of the meeting is created and the old version is saved as the history of the meeting. As much as 9999 versions of a meeting can be kept. As long as the modified invitations are not sent with Z-MCONFM, the status of the meeting is "pending".

If other information of a meeting is changed either by the originator or by an attendee (e.g. keywords, security levels, private flag or time occupation), a new version is not created.

The date range between Start-date and End-date must be equal to or less than 90 days (otherwise the return code 43 is issued).

Start-time and End-time are interpreted as GMT (0).

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided.

If the parameter No-time-occupancy is specified, the appointment or meeting does not occupy time in the calendar. This means that if another user wants to add a meeting and searches the calendar, this time range is not marked as reserved.

If the parameter No-time-occupancy is not specified (i.e. the appointment or meeting is to occupy time in the calendar) and another calendar entry already occupies the specified time range, return code 94 is issued. Old versions of a meeting (history) are not considered.

If the parameter Separate-daily-entries is specified, the appointment or meeting occupies only the specified time range for each day. If the parameter Separate-daily-entries is not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.

To add attendees and resources to the address list of the meeting, you have to call Z-ADDATT.

To undo attendees and resources that have been defined with Z-ADDATT after the invitations have been sent, you have to call Z-UNDO.

When you modify a meeting, you must also call the following subprograms:

1. Z-STIME to start the search for free time if you have marked the parameter Search-free-time.
2. Z-MCONFM to confirm (i.e. send) the modified invitations.

Notes can later be added to the appointment or meeting using Z-NOTE.

Parameters which are not completed in the parameter list are deleted from the appointment or meeting. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the appointment or meeting that is to be modified.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R	X	Input: ISN of the first record of the appointment or meeting to be modified. Output: ISN of the first record of the appointment or meeting that has been modified.
Start-date	A8	R		The starting date of the appointment or meeting. Format yyyymmdd.
Start-time	A4	O		The starting time of the appointment or meeting. Format hhmm.
End-date	A8	O		The ending date of the appointment or meeting. Format yyyymmdd.
End-time	A4	O		The ending time of the appointment or meeting. Format hhmm.
Object-number	N2	O		3=appointment, 16=meeting. If not specified, the object type is not modified.
Separate-daily-entries	A1	O		If specified, the appointment or meeting occupies only the specified time range for each day. If not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.
Ignore-existing-entries	A1	O		If specified, the appointment or meeting is modified although the time range is already occupied by another calendar entry.
Subject	A20	R/O		The subject of the appointment or meeting. You must specify at least one of the following: Subject, Description or Location.

Parameter	Format	In	Out	Remarks
Description	A60/1:3	R/O		A brief description for the appointment or meeting. You must specify at least one of the following: Description, Subject or Location.
Location	A60	R/O		The location of the appointment or meeting. You must specify at least one of the following: Location, Subject or Description.
Agenda	A32	O		The name of a document which has been linked to the appointment or meeting.
Keywords	A15/1:6	O		Keywords are helpful later when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Private-flag	A1	O		Only allowed with a private cabinet. If marked, the appointment or meeting is a private object.
Security-flags	A1/1:4	O		The security levels for Read, Modify, Copy and Print. Values 0 to 9. You can also assign the value X which provides absolute protection.
No-time-occupancy	A1	O		If specified, the appointment or meeting does not occupy time in the calendar.
Accept-decline	A1	O		Applies only to an invitation to the meeting in the attendee’s cabinet. 1=accept meeting, 2=decline meeting and add it to your calendar. Use Z-ACCEPT or Z-CAN06 if you want to decline and stop the meeting; this function is not executed by Z-MOD06.
Search-free-time	A1	O		If specified, a special flag is set in the meeting records. Use Z-STIME to search the calendars of all attendees for free time. This function is not executed by Z-MODD06.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
09	ISN does not point to correct object
13	Invalid object number
18	API context buffer not available
24	Security violation (wrong level for mailing invitations)
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
51	Invalid name (subject, description or location missing)
53	Requested object (agenda) does not exist
54	At least one keyword is invalid
57	Document (agenda) contains no text
61	Invalid security code(s)
93	Security levels must not be greater than those of profile
94	The specified time range is already occupied
96	Date, time, subject, location or agenda can only be modified by originator
98	Meeting can only be accepted/declined by attendee, not by originator. Or invalid value in parameter Accept-decline.

Subprograms

N-IDATCM
N-NAMMOD
Z-0106A
Z-0106AN
Z-0106B
Z-0106C
Z-0420
Z-0420A
Z-100
Z-110
Z-120
Z-122

Z-123
Z-124
Z-135
Z-160
Z-165
Z-175
Z-180
Z-185
Z-190
Z-209
Z-216
Z-223
Z-711
Z-711A
Z-728
Z-731
Z-737
Z-740
Z-741
Z-742
Z-743
Z-751
Z-120&0

Example

```
* Modify meeting
*
DEFINE DATA
LOCAL
*
* Parameters of Z-GET06B.
* Some of them are used for Z-MOD06.
*
1 RETURN-CODE      (N2)
1 CABINET          (A8)
1 PASSWORD         (A8)
1 START-DATE       (A8)
1 START-TIME       (A4)
1 END-DATE         (A8)
1 END-TIME         (A4)
1 SUBJECT          (A20)
1 DESCRIPTION      (A60/1:3)
1 LOCATION         (A60)
1 AGENDA           (A32)
1 KEYWORDS         (A15/1:6)
1 PRIVATE-FLAG     (A1)
1 SECURITY-FLAGS   (A1/1:4)
1 OBJECT-NUMBER    (N2)
1 RANGE-TYPE       (A1)
1 NO-OCCUPATION    (A1)
1 CURRENT-DATE     (A8)
1 CURRENT-START    (A8)
1 CURRENT-END      (A8)
1 CALENDAR-ISN     (P10)
1 ONLY-FIRST       (A1)
```

```
1 NOTES            (N2)
1 WORK-PARAMETER   (A40)
*
*
* Remaining parameters for Z-MOD06.
*
1 MOD06-RETURN-CODE       (N2)
1 SEPARATE-DAILY-ENTRIES  (A1)
1 IGNORE-EXISTING-ENTRIES (A1)
1 SEARCH-FREE-TIME        (A1)
1 ACCEPT-DECLINE          (A1)
*
END-DEFINE
*
*
RESET RETURN-CODE
MOVE 'Cabinet ' TO CABINET
MOVE 'Password' TO PASSWORD
MOVE '20001231' TO START-DATE
MOVE '2000'     TO START-TIME
MOVE 'X'        TO ONLY-FIRST
*
REPEAT UNTIL RETURN-CODE NE 0
*
* Get calendar information
*
  CALLNAT 'Z-GET06B'
    RETURN-CODE
    CABINET
    PASSWORD
    START-DATE
    START-TIME
    END-DATE
    END-TIME
    SUBJECT
    DESCRIPTION(*)
    LOCATION
    AGENDA
    KEYWORDS(*)
    PRIVATE-FLAG
    SECURITY-FLAGS(*)
    OBJECT-NUMBER
    RANGE-TYPE
    NO-OCCUPATION
    CURRENT-DATE
    CURRENT-START
    CURRENT-END
    CALENDAR-ISN
    ONLY-FIRST
    NOTES
    WORK-PARAMETER
*
* Write information of found meeting
*
  IF RETURN-CODE EQ 0
    IF SUBJECT EQ 'Urgent-Meeting'
        AND OBJECT-NUMBER EQ 16
      NEWPAGE
      WRITE
        '=' CABINET /
        '=' PASSWORD /
        '=' START-DATE
```

```
        '=' START-TIME /
        '=' END-DATE
        '=' END-TIME /
        '=' SUBJECT /
        '=' DESCRIPTION(1) /
        '=' LOCATION /
        '=' AGENDA /
        '=' KEYWORDS(1:3) /
        '=' KEYWORDS(4:6) /
        '=' PRIVATE-FLAG
        '=' SECURITY-FLAGS(1:4) /
        '=' OBJECT-NUMBER /
        '=' RANGE-TYPE /
        '=' NO-OCCUPATION /
        '=' CURRENT-DATE /
        '=' CURRENT-START /
        '=' CURRENT-END /
        '=' CALENDAR-ISN     /
        '=' ONLY-FIRST  /
        '=' NOTES  /
*
* Modify subject of meeting
*
      MOVE 'Very-Urgent-Meeting' TO SUBJECT
*
* Modify meeting. New subject will be Very-Urgent-Meeting
* Address list will consist of 2 attendees.
*
      IF RANGE-TYPE EQ '2'         /* separate daily entries
        MOVE 'X' TO SEPARATE-DAILY-ENTRIES
      ELSE
        RESET SEPARATE-DAILY-ENTRIES
      END-IF
*
      CALLNAT 'Z-MOD06'
        MOD06-RETURN-CODE
        CABINET
        PASSWORD
        CALENDAR-ISN
        START-DATE
        START-TIME
        END-DATE
        END-TIME
        OBJECT-NUMBER
        SEPARATE-DAILY-ENTRIES
        IGNORE-EXISTING-ENTRIES
        SUBJECT
        DESCRIPTION(*)
        LOCATION
        AGENDA
        KEYWORDS(*)
        PRIVATE-FLAG
        SECURITY-FLAGS(*)
        NO-OCCUPATION
        ACCEPT-DECLINE
        SEARCH-FREE-TIME
*
      IF MOD06-RETURN-CODE NE 0
        MOVE MOD06-RETURN-CODE TO RETURN-CODE
      ELSE
        ESCAPE BOTTOM
      END-IF
```

```
END-IF
  END-IF
END-REPEAT
IF RETURN-CODE = 0
  WRITE 'Meeting was modified'
ELSE
  WRITE 'Meeting NOT modified. Return code: ' RETURN-CODE
END-IF
END
```

Z-MOD11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Modify the text of an existing document using data from a text array (A251/1:20).

The new text can either be in the Txt or Cnf format. The original text is deleted and substituted with the new text. The document information such as the description or keywords are retained.

You cannot modify the text of a document which is stored in a system folder (except Work).

The parameter Text-array must be redefined as:

Byte Number	Description
1	Number of line feeds (1 to 9)
2 to 251	Text

Blank text lines (i.e. line feeds) must be defined separately; for example, when you specify the value 9, this must not be followed by any text. Text lines must always be preceded by the value 1 (when you do not enter a value, 1 is automatically used). For example:

```
MOVE '1This line contains text'    TO TEXT-ARRAY (1)
MOVE '2'                           TO TEXT-ARRAY (2)   /* inserts 2 blank lines
MOVE '1This is another text line'  TO TEXT-ARRAY (3)
```

Blank lines after the document text can be suppressed by specifying the number of text lines that are to be stored in the Number parameter. If the Number parameter is not specified, 20 is assumed.

This subprogram can be called iteratively to create a text of any length. During successive calls you must take care that the Work-parameter is not disturbed by the calling routine.

The parameter Text-array is not reset after a call. Thus, when using this subprogram iteratively, you must reset the Text-array parameter before filling it again.

With the last text record, you must set the parameter End-flag to terminate the modifying process and to unlock the document.

When you modify the text of a TRS document and if Con-nect Text Retrieval cannot be invoked (return code 06), the TRS error number is returned in the parameter TRS-return-code.

A modified TRS document is inverted online unless it is longer than the length permitted by the administrator. If it is, the document is automatically filed in folder TRS-XXL and inverted when the utility B10000 is run (see the *Con-nect Utilities* documentation, section **Invert Long Documents** for further information).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
TRS-return-code	P4		X	When this subprogram has been terminated successfully, the value 0 is returned. Any other value indicates an internal error.
Cabinet	A8	R		The cabinet in which the document is to be modified.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be modified. Either Document-name or ISN, not both.
ISN	P10	R*		The ISN of the document to be modified. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Document-format	A1	R		0=Txt or 1=Cnf.
Text-array	A251/1:20	R		The new text for the document.
Number	N2	O		The number of lines that are to be stored with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
End-flag	A1	R		Terminates the modifying process and unlocks the document. When you call this subprogram iteratively, the End-flag is only required with the last text record (as specified in the Number parameter).
Work-parameter	A25			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
16	Document is locked - editing was not completed
51	Invalid name
53	Requested object does not exist
79	Invalid document format
92	Inconsistency between Work-parameter and original document, or between Work-parameter and backup version, or between original document and backup version

Subprograms

Z-120
Z-122
Z-123
Z-135
Z-147
Z-161
Z-161A
Z-161B
Z-180
Z-190
Z-1200&0

Z-MOD13

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify a folder. You can also modify a system folder or a TRS folder.

You can rename the folder or any file it contains. You can modify the description and the sorting sequence. The sorting sequence can only be modified for a folder. The sequence of a file is always that of the corresponding folder.

You must always specify the parameter New-folder-name. If you do not want to rename the folder (e.g. if you only want to modify the description), you must specify the same name in the parameters Folder-name and New-folder-name. Accordingly, when you modify a file, you must specify the parameter New-file-name. If you do not want to rename the file, you must specify the same name in the parameters File-name and New-file-name.

Note:
Renaming a folder or file does not create a new folder or file.

You can modify the description of either a folder or a file. You cannot modify both at the same time. When you specify the parameter File-name, you can only modify the description of the file. When you want to modify the description of the folder, the parameter File-name must be blank. In contrast to the description of a folder (A60/1:2), the description of a file has only one line and can be up to 40 characters long (A40). When you modify a folder or file and want to keep the existing description, you must specify it once more.

You cannot add files with Z-MOD13. To add a file, you must use Z-ADD13.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the folder is to be modified.
Password	A8	R		The password of the above cabinet.
Folder-name	A15	R		Either the name of the folder to be modified, or the name of the folder in which the file to be modified is stored.
File-name	A15	O		The name of the file to be modified. When specified, you can only modify the description of the file.
New-folder-name	A15	R		This must always be specified. If you do not want to rename the folder, you must specify the same name as in Folder-name.
New-file-name	A15	O		When you want to modify a file, you must specify this parameter. If you do not want to rename the file, you must specify the same name as in File-name.
Folder-sequence	N1	R		The sorting sequence for a folder: 1 (ascending by date), 2 (descending by date), or 3 (user-defined). The Inbasket, Outbasket and Wastebasket cannot use sorting sequence 3. The sorting sequence for a file must be 0.
Description	A60/1:2	O		To modify the description of a folder, the File-name must be blank. For a file the description has only one line and can be up to 40 characters long (A40).

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
55	Requested folder/file does not exist
73	Invalid folder/file name
74	Folder/file already exists
92	File name is required
95	Invalid sequence
96	Sorting sequence cannot be modified for a file

Subprograms

Z-120
Z-122
Z-123
Z-175
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 1 RETURN-CODE      (N2)
0030 1 CABINET          (A8)
0040 1 PASSWORD         (A8)
0050 1 FOLDER-NAME      (A15)
0060 1 FILE-NAME        (A15)
0070 1 NEW-FOLDER-NAME  (A15)
0080 1 NEW-FILE-NAME    (A15)
0090 1 FOLDER-SEQUENCE  (N1)
0100 1 DESCRIPTION      (A60/1:2)
0110 *
0120 END-DEFINE
0130 *
0140 INPUT 'CABINET     :' CABINET /
0150   'PASSWORD        :' PASSWORD /
0160   'FOLDER-NAME     :' FOLDER-NAME /
0170   'FILE-NAME       :' FILE-NAME /
0180   'NEW-FOLDER-NAME :' NEW-FOLDER-NAME /
0190   'NEW-FILE-NAME   :' NEW-FILE-NAME /
0200   'FOLDER-SEQUENCE :' FOLDER-SEQUENCE /
0210   'DESCRIPTION     :' DESCRIPTION (*)
0220 *
0230 CALLNAT 'Z-MOD13' RETURN-CODE
0240   CABINET
0250   PASSWORD
0260   FOLDER-NAME
0270   FILE-NAME
0280   NEW-FOLDER-NAME
0290   NEW-FILE-NAME
0300   FOLDER-SEQUENCE
0310   DESCRIPTION (*)
0320 *
0330 IF RETURN-CODE EQ 0
0340   WRITE 'Folder/file was modified'
0350 ELSE
0360   WRITE 'Folder/file could not be modified:' RETURN-CODE
0370 END-IF
0380 *
0390 END
```

Z-MOD17

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Authorize a user to use another private cabinet, or modify the profile of a user who is authorized to use another private cabinet.

Only the user of a private cabinet can be authorized to use another private cabinet.

When a value other than 0 is returned in the parameter Return-code, BACKOUT TRANSACTION is always issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the profile for the authorized user is to be added or modified.
Password	A8	R		The password of the above cabinet.
Member	A8	R		The user who is to be authorized to use the private cabinet or the user whose profile is to be modified.
Profile	A55	R		See the redefinition below.
Redefine Profile				
Security-read	A1	R		The security level for Read. A value between 0 and 9.
Security-modify	A1	R		The security level for Modify. A value between 0 and 9.
Security-copy	A1	R		The security level for Copy. A value between 0 and 9.
Security-print	A1	R		The security level for Print. A value between 0 and 9.
Read-mail	A1	O		If marked, the user can read mail.
Reply	A1	O		If marked, the user can reply to mail.
Forward	A1	O		If marked, the user can forward mail.
Send-mail	A1	O		If marked, the user can send mail.
Display-calendar	A1	O		If marked, the user can display all calendar entries.
Modify-calendar	A1	O		If marked, the user can act upon all calendar entries.
Modify-other-items	A1	O		If marked, the user can modify all other objects.
Erase-other-items	A1	O		If marked, the user can erase all other objects.
Display-other-items	A1	O		If marked, the user can display all other objects.
Filler	A42	O		For future use.

See the *Con-nect User's Guide*, section **Adding Shared Users to Your Private Cabinet** for further information regarding the above parameters.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
90	Both the member and the cabinet must be private
91	A cabinet cannot be shared with itself
92	Requested member cabinet could not be found
93	Invalid security level

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 * Demo program to add a member to a private cabinet, where this member is
0030 * only allowed to display the calendar of the shared private cabinet
0040 *
0050 DEFINE DATA
0060 LOCAL
0070 1 RETURN-CODE       (N2)
0080 1 CABINET           (A8)
0090 1 PASSWORD          (A8)
0100 1 MEMBER            (A8)
0110 1 PROFILE           (A55)
0120 END-DEFINE
0130 *
0140 MOVE 'LS'          TO CABINET
0150 MOVE 'PASSWORD'    TO PASSWORD
0160 MOVE 'ESH'         TO MEMBER
0170 MOVE '6666    X'   TO PROFILE
0180 *
0190 CALLNAT 'Z-MOD17'  RETURN-CODE
0200                    CABINET
0210                    PASSWORD
0220                    MEMBER
0230                    PROFILE
0240 *
0250 IF  RETURN-CODE NE 0
0260     WRITE 'Return code' RETURN-CODE
0270 ELSE
0280     WRITE 'Member was modified/added'
0290 END-IF
0300 *
0310 END
```

Z-MOD27

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the description, keywords, writer and title of a reference document.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the reference document is stored.
Password	A8	R		The password of the above cabinet.
Ref-document-name	A32	R*		The name of the reference document to be modified. Either Ref-document-name or ISN, not both.
ISN	P10	R*		The ISN of the reference document to be modified. Either ISN or Ref-document-name, not both.
Description	A60/1:4	O		A brief description for the reference document. If you have not specified the Ref-document-name, you must specify the first line of the description.
Keywords	A15/1:6	O		Keywords are helpful later when you search for an object.
Title	A60	O		The title of the work.
Writer	A60	O		The writer of the work.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to a reference document
10	Function not valid for a system folder
51	Invalid name
53	Requested object does not exist
54	At least one keyword was invalid
90	Reference document must have a name or a description

Subprograms

Z-120
Z-122
Z-123
Z-147
Z-161
Z-175
Z-1200&0

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 *
0050 1 RETURN-CODE              (N2)
0060 1 CABINET                  (A8)
0070 1 PASSWORD                 (A8)
0080 1 REF-DOCUMENT-NAME        (A32)
0090 1 ISN                      (P10)
0100 1 DESCRIPTION              (A60/1:4)
0110 1 KEYWORDS                 (A15/1:6)
0120 1 TITLE                    (A60)
0130 1 WRITER                   (A60)
0140 *
0150 END-DEFINE
0160 *
0170 INPUT (IP=OFF AD=A'_')
0180         'Cabinet       ' CABINET
0190      /  'Password      ' PASSWORD (AD=N)
0200      /  'Ref. Document ' REF-DOCUMENT-NAME
0210      // 'Description   ' / DESCRIPTION (*)
0220      // 'Keywords      ' / KEYWORDS (1:3) / KEYWORDS (4:6)
0230      // 'Title         ' / TITLE
0240      /  'Writer        ' / WRITER
0250 *
0260 IF   REF-DOCUMENT-NAME NE ' '
0270      CALLNAT 'Z-MOD27'
0280           RETURN-CODE
0290           CABINET
0300           PASSWORD
0310           REF-DOCUMENT-NAME
0320           ISN
0330           DESCRIPTION (*)
0340           KEYWORDS (*)
0350           TITLE
0360           WRITER
0370      IF   RETURN-CODE EQ 0
0380           WRITE 'Reference document was modified'
0390      ELSE
0400           WRITE 'Reference document cannot be modified' RETURN-CODE
0410      END-IF
0420 END-IF
0430 *
0440 END
```

Z-MOD79

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify a logical printer.

This subprogram can be used only by a supervisor or system administrator.

Any values that were previously defined in the parameters Printer-profile and Description are deleted. Thus, to retain the previously defined values, you must specify them once more.

Note:
When you operate under Natural Advanced Facilities, you must enter the name of the logical printer profile in the parameter Printer-TID.

Successful termination of Z-MOD79 always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet ID of a supervisor or system administrator.
Password	A8	R		The password of the above cabinet.
Printer-ISN	P8	R*		The ISN of the logical printer to be modified. Either Printer-ISN or Printer-name, not both.
Printer-name	A32	R*		The name of the logical printer to be modified. Either Printer-name or Printer-ISN, not both. The Printer-name cannot be modified.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used when the user enters the name of the logical printer.
Printer-profile	A32	O		The printer profile which is to be assigned to the logical printer. To retain the previously defined printer profile, you must specify it once more.
Description	A60/1:4	O		A brief description for the logical printer. To retain the previously defined description, you must specify it once more.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
08	Supply either ISN or name, not both
15	Invalid administrator status
84	Requested printer profile does not exist
89	No printer TID/LU supplied
91	Supply ISN or name
92	Printer-name not found

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

```
0010 *
0020 DEFINE DATA
0030 LOCAL
0040 1 RETURN-CODE          (N2)
0050 1 CABINET              (A8)
0060 1 PASSWORD             (A8)
0070 1 PRINTER-ISN          (P8)
0080 1 PRINTER-NAME         (A32)
0090 1 PRINTER-TID          (A8)
0100 1 PRINTER-PROFILE      (A32)
0110 1 DESCRIPTION          (A60/1:4)
0120 *
0130 END-DEFINE
0140 *
0150 RESET RETURN-CODE
0160 MOVE 'CABINET'         TO CABINET
0170 MOVE 'PASSWORD'        TO PASSWORD
0180 MOVE 'PRINTER-NAME'    TO PRINTER-NAME
0190 MOVE 'TID'             TO PRINTER-TID
0200 MOVE 'PRINTER-PROFILE' TO PRINTER-PROFILE
0210 MOVE 'DESCRIPTION-1'   TO DESCRIPTION(1)
0220 MOVE 'DESCRIPTION-2'   TO DESCRIPTION(2)
0230 MOVE 'DESCRIPTION-3'   TO DESCRIPTION(3)
0240 MOVE 'DESCRIPTION-4'   TO DESCRIPTION(4)
0250 *
0260 CALLNAT 'Z-MOD79'
0270   RETURN-CODE
0280   CABINET
0290   PASSWORD
0300   PRINTER-ISN
0310   PRINTER-NAME
0320   PRINTER-TID
0330   PRINTER-PROFILE
0340   DESCRIPTION(*)
0350 *
0360 IF RETURN-CODE = 0
0370   WRITE 'LOGICAL PRINTER WAS MODIFIED'
0380 ELSE
0390   WRITE 'RETURN CODE' RETURN-CODE
0400 END-IF
0410 *
0420 END
```

Z-MODADR

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the work and home address for a cabinet or nickname.

This subprogram can be used by different types of users. Depending on the type of user, the following functions are allowed:

- **Cabinet Administrator**
  Modify the address for a cabinet (except for cabinet SYSCNT), or for a nickname in the cabinet administrator's own private cabinet.

- **System Administrator**
  Modify the address for cabinet SYSCNT, for a nickname in cabinet SYSCNT, or for a nickname in the system administrator's own private cabinet.

- **Any Other User**
  Modify the address for a nickname in the user's own private cabinet.

You must specify at least one of the following parameters: Cabinet-name, Nickname or Object-ISN. Thus, the following combinations are allowed: Cabinet-name and Object-ISN, Nickname and Object-ISN, only the Cabinet-name, only the Nickname, or only the Object-ISN.

The following table shows the parameters that are used for the different functions of this subprogram (the table does not consider the Object-ISN):

Function	Cabinet	Cabinet-name	Nickname
Modify the address for a cabinet (except for cabinet SYSCNT).	User ID of a cabinet administrator.	The name of the cabinet to be modified.	
Modify the address for cabinet SYSCNT.	User ID of a system administrator.	The cabinet name "SYSCNT".	
Modify a nickname in cabinet SYSCNT.	The cabinet name "SYSCNT".		The nickname to be modified.
Modify a nickname in the own private cabinet.	The name of the cabinet in which the nickname is stored.		The nickname to be modified.

Parameters which are not completed in the parameter list are deleted from the address. Thus, to retain the existing values, you must specify them once more before you invoke this subprogram.

To fill the parameters with the already existing address values, it is recommended that you invoke Z-GETADR prior to invoking Z-MODADR (see the following example program).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		To modify the address for a cabinet, this must be the user ID of a cabinet administrator. To modify the nickname, this must be the ID of the cabinet in which the nickname is stored.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R/O*		The name of the cabinet to be modified. Either Cabinet-name or Nickname, not both.
Nickname	A32	R/O*		The nickname to be modified. Either Nickname or Cabinet-name, not both.
Object-ISN	P10	R/O		The ISN of the cabinet or nickname to be modified. You can invoke Z-GETADR prior to Z-MODADR to obtain the ISN for the desired cabinet or nickname. The Object-ISN can either be specified alone, or in addition to Cabinet-name or Nickname. In the latter case, the Object-ISN must correspond to the Cabinet-name or Nickname, otherwise return code 4 is issued.
Work-title	A32	O		
Work-company	A32	O		
Work-location	A32	O		
Work-address	A60/1:3	O		

Parameter	Format	In	Out	Remarks
Work-city	A32	O		
Work-country	A8	O		
Work-department-name	A32	O		
Work-department-number	A10	O		
Work-phone	A15	O		
Work-phone-country	N2	O		
Work-phone-extension	A10	O		
Work-postal-code	A10	O		
Work-state	A8	O		
Home-address	A60/1:2	O		
Home-city	A32	O		
Home-country	A8	O		
Home-phone	A15	O		
Home-phone-country	N2	O		
Home-postal-code	A10	O		
Home-state	A8	O		

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
15	Invalid administrator status
53	Requested object does not exist
91	Invalid input in the parameter Cabinet-name or Nickname
92	You can either specify Cabinet-name or Nickname, you must not specify both
93	You must specify the parameter Cabinet-name or Nickname

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Example

The following example uses a local data area for the parameters of Z-MODADR. See **Local Data Areas** for further information.

Only the parameters used by Z-GETADR are defined locally.

```
**********************************************************************
* Shows how a cabinet administrator can substitute the old German
* zip codes (PLZ) with the new five-character zip codes
*********************************************************************
DEFINE DATA
LOCAL USING L-MODADR                /* used by Z-MODADR
LOCAL
1 OBJECT-NUMBER          (N2)       /* used by Z-GETADR (in
1 PRIVATE-FLAG           (A1)       /* addition to the
1 LAST-NAME              (A32)      /* variables defined in
1 FIRST-NAME             (A32)      /* the local data area
1 INITIAL                (A1)       /* L-MODADR)
1 WORK-PARAMETER         (A88)
1 TABLE-DA(A30/2) INIT
  (1) <'Haardtring          64295'>
  (2) <'Friedberger         64289'>
1 REDEFINE TABLE-DA
  2 STRING (2)
    3 STREET           (A20)
    3 PLZ              (A5)
1 IND                  (N2)
1 ADR-INX              (N2)
1 #RETURN-CODE         (N2)
1 #COUNTER             (N3)
END-DEFINE
*
MOVE 'ADMIN-ID'           TO CABINET
MOVE 'PASSWORD'           TO PASSWORD
MOVE '*'                  TO CABINET-NAME  /* all cabinets
REPEAT
  RESET RETURN-CODE
  CALLNAT 'Z-GETADR'
    RETURN-CODE
    CABINET
    PASSWORD
    CABINET-NAME
    NICKNAME
    OBJECT-ISN
    OBJECT-NUMBER
    PRIVATE-FLAG
    LAST-NAME
    FIRST-NAME
    INITIAL
    WORK-TITLE
```

```
    WORK-COMPANY
    WORK-LOCATION
    WORK-ADDRESS(*)
    WORK-CITY
    WORK-COUNTRY
    WORK-DEPARTMENT-NAME
    WORK-DEPARTMENT-NUMBER
    WORK-PHONE
    WORK-PHONE-COUNTRY
    WORK-PHONE-EXTENSION
    WORK-POSTAL-CODE
    WORK-STATE
    HOME-ADDRESS(*)
    HOME-CITY
    HOME-COUNTRY
    HOME-PHONE
    HOME-PHONE-COUNTRY
    HOME-POSTAL-CODE
    HOME-STATE
    WORK-PARAMETER
*
  MOVE RETURN-CODE TO #RETURN-CODE
  IF RETURN-CODE EQ 0
      OR RETURN-CODE EQ 77
    RESET RETURN-CODE
*
    PERFORM FILL-PLZ /* see the subroutine at the end of this program
*
    CALLNAT 'Z-MODADR'
      L-MODADR
  END-IF
  IF RETURN-CODE EQ 0
    ADD 1 TO #COUNTER
  END-IF
  UNTIL #RETURN-CODE NE 77
END-REPEAT
*
WRITE #COUNTER ' addresses were modified'
*
* ******************************************************
*
DEFINE SUBROUTINE FILL-PLZ
*
IF WORK-CITY EQ SCAN 'Darmstadt'
  FOR ADR-INX  1 TO 3
    FOR IND 1 TO 2
      IF WORK-ADDRESS(ADR-INX)  EQ SCAN STREET(IND)
        MOVE PLZ(IND) TO WORK-POSTAL-CODE
      END-IF
    END-FOR
  END-FOR
END-IF
*
END-SUBROUTINE
* ******************************************************
END
```

Z-MODPWD

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Modify the password.

This subprogram can be used by a user or an administrator. The administrator must be either a supervisor or a cabinet administrator with the permission to modify cabinets.

A user can modify the password of the own private cabinet. An administrator can modify the password of any cabinet, except cabinet SYSCNT. The parameter Cabinet-name specifies the cabinet for which the password is to be changed.

If it is not allowed to define the cabinet ID or a specific string as the password, return code 99 is issued.

If the parameter Generate-password is filled, Z-MODPWD automatically generates a new password. In this case, the parameter New-password is ignored.

If the parameter Generate-password is not filled, you must specify the parameter New-password.

Note:
If Z-MODPWD generates a new password, this new password is not returned to the calling program.

The following applies when an administrator modifies the password of another than his own cabinet: when the parameter Generate-password is not filled or contains the value S, a notification indicating that the password was changed is automatically sent to the cabinet specified in the parameter Cabinet-name. However, when sending and receiving of mail was disallowed for a cabinet, the notification is sent to the cabinet SYSCNT.

A notification is sent only when the administrator modifies the password of a cabinet other than his own. These are the parameters that are used for the different functions of this subprogram:

- New-password is filled (Generate-password is not filled): a notification is sent.
- Generate-password is filled with S: a notification is sent.
- Generate-password is filled with any character except S: a notification is not sent.

If a notification is to be sent, Z-MODPWD uses the value of the parameter Notification-text both as subject and text of the notification. If the parameter Notification-text is not filled, Z-MODPWD tries to retrieve the appropriate Con-nect message according to the current value of *LANGUAGE.

Successful termination of Z-MODPWD always results in an END TRANSACTION. You are not able to control transaction handling. When a value other than 0 is returned, BACKOUT TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet of the administrator or user.
Password	A8	R		The password of the above cabinet.
Cabinet-name	A8	R		The cabinet that is to be modified.
New-password	A8	R*		The new password for the cabinet that is to be modified. This is ignored when Generate-password is marked.
Generate-password	A1	R*		If marked with any character except S, a new password is created. If marked with S, a new password is created and a notification is sent.
Notification-text	A65	O		The text for the notification that is to be sent.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
18	API context buffer not available
97	Message text not available
98	Cabinet to modify cannot be found
99	Invalid new password

Subprograms

Z-SENDX
Z-110
Z-120
Z-122
Z-123
Z-135
Z-145
Z-155
Z-164
Z-165
Z-175
Z-185
Z-190
Z-1200&0

Example

```
0010 * This routine changes the passwords for all private cabinets where
0020 * the old password matches the cabinet name. A main process uses
0030 * Z-DIS05 to loop around the cabinets. For each found cabinet
0040 * a dummy-call for Z-ADD13 is executed. If this dummy-call results
0050 * in a return code other than 3, the old password matches the
0060 * cabinet name and Z-MODPWD is invoked.
0070 *
0080 DEFINE DATA
0090 *
0100 LOCAL
0110 *
0120 * Parameters for Z-MODPWD
0130 *
0140 1 RETURN-CODE               (N2)
0150 1 CABINET                   (A8)
0160 1 PASSWORD                  (A8)
0170 1 CABINET-NAME              (A8)
0180 1 NEW-PASSWORD              (A8)
0190 1 GENERATE-PASSWORD         (A1)
0200 1 NOTIFICATION-TEXT         (A65)
0210 *
0220 * Parameters for Z-DIS05
0230 *
0240 1 #05-RETURN-CODE           (N2)
0250 1 #05-CABINET               (A8)
0260 1 #05-PASSWORD              (A8)
0270 1 #05-START-CABINET         (A8)
0280 1 #05-START-CABINET-TYPE    (N1)
0290 1 #05-NUMBER                (N2)
0300 1 #05-CABINET-TABLE         (1:20)
0310   2 #05-CABINET-NAME        (A8)
0320   2 #05-CABINET-TYPE        (A1)
0330   2 #05-USER-LAST-NAME      (A32)
0340   2 #05-USER-FIRST-NAME     (A32)
0350   2 #05-USER-INITIAL        (A1)
0360   2 #05-DISALLOW-MAIL       (A1)
0370   2 #05-OWNER               (A1)
0380   2 #05-ADMINISTRATOR       (A1)
```

```
0390   2 #05-CABINET-ISN         (P8)
0400 1 #05-WORK-PARAMETER        (A42)
0410 *
0420 * Parameters for Z-ADD13
0430 *
0440 1 #13-RETURN-CODE           (N2)
0450 1 #13-CABINET               (A8)
0460 1 #13-PASSWORD              (A8)
0470 1 #13-FOLDER-NAME           (A15)
0480 1 #13-FILE-NAME             (A15)
0490 1 #13-FOLDER-SEQUENCE       (N1)
0500 1 #13-FOLDER-NUMBER         (N5)
0510 1 #13-FILE-NUMBER           (N5)
0520 *
0530 * Other local parameters
0540 *
0550 1 #MESSAGE                  (A40)
0560 1 #LOOP                     (P3)
0570 1 #CANCEL                   (L)
0580 *
0590 END-DEFINE
0600 *
0610 MOVE FALSE                              TO #CANCEL
0620 MOVE 'SYSADMIN'                         TO CABINET  #05-CABINET
0630                                            PASSWORD #05-PASSWORD
0640 MOVE 'DUMMY'                            TO NEW-PASSWORD
0650 MOVE 'Password was changed - please contact your administrator'
0660                                         TO NOTIFICATION-TEXT
0670 MOVE 'Check of passwords completed'     TO #MESSAGE
0680 *
0690 REPEAT
0700      CALLNAT 'Z-DIS05'
0710           #05-RETURN-CODE
0720           #05-CABINET
0730           #05-PASSWORD
0740           #05-START-CABINET
0750           #05-START-CABINET-TYPE
0760           #05-NUMBER
0770           #05-CABINET-TABLE (*)
0780           #05-WORK-PARAMETER
0790      IF   #05-RETURN-CODE EQ 0 OR EQ 77
0800           FOR  #LOOP EQ 1 TO 20
0810                IF   #05-CABINET-NAME (#LOOP) NE ' '
0820                 AND NOT #CANCEL
0830                     PERFORM PROCESS-CABINET
0840                END-IF
0850           END-FOR
0860      ELSE
0870           COMPRESS 'Error Z-DIS05:' #05-RETURN-CODE
0880                                      INTO #MESSAGE
0890      END-IF
0900 UNTIL #05-RETURN-CODE GT 0
0910   OR #CANCEL
0920 END-REPEAT
0930 *
0940 WRITE NOTITLE #MESSAGE
0950 *
0960 DEFINE SUBROUTINE PROCESS-CABINET
0970 *
0980 RESET                                      #13-RETURN-CODE
0990 MOVE #05-CABINET-NAME (#LOOP)           TO #13-CABINET #13-PASSWORD
1000 CALLNAT 'Z-ADD13'
```

```
1010      #13-RETURN-CODE
1020      #13-CABINET
1030      #13-PASSWORD
1040      #13-FOLDER-NAME
1050      #13-FILE-NAME
1060      #13-FOLDER-SEQUENCE
1070      #13-FOLDER-NUMBER
1080      #13-FILE-NUMBER
1090 *
1100 IF   #13-RETURN-CODE LT 3              /* should not happen
1110      COMPRESS 'Error Z-ADD13:' #13-RETURN-CODE #13-CABINET
1120                                     INTO #MESSAGE
1130      MOVE TRUE                        TO #CANCEL
1140 ELSE
1150      IF   #13-RETURN-CODE GT 3       /* password matches the cabinet name
1160           MOVE #13-CABINET             TO CABINET-NAME
1170           CALLNAT 'Z-MODPWD'
1180                RETURN-CODE
1190                CABINET
1200                PASSWORD
1210                CABINET-NAME
1220                NEW-PASSWORD
1230                GENERATE-PASSWORD
1240                NOTIFICATION-TEXT
1250           IF   RETURN-CODE GT 0
1260                COMPRESS 'Error Z-MODPWD:' RETURN-CODE
1270                                     INTO #MESSAGE
1280                MOVE TRUE               TO #CANCEL
1290           END-IF
1300      END-IF
1310 END-IF
1320 *
1330 END-SUBROUTINE
1340 *
1350 END
```

Z-NOTE

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Maintain notepad pages.

The following functions are available:

- Add, modify, display or erase a notepad page.
- Attach a notepad page to a document, appointment or meeting (supply parameters Object-number, Command as either A or M, and either parameter Document-name or Object-ISN).

To get the ISN of an appointment or meeting to which notes are attached, you can invoke Z-GET06B prior to this subprogram.

To display a list of notepad pages, you can invoke Z-DIS20 prior to this subprogram.

A note can contain up to 10 lines of text. The content of the edit area is not changed.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the note is (to be) stored.
Password	A8	R		The password of the above cabinet.
Command	A1	R		Must be one of the following: A=add, M=modify, D=display, E=erase.
Note-subject	A32	R*		The subject of the note. Either Note-subject or Note-ISN, not both.
Note-ISN	P10	R*	X	The ISN of the note. Input: either Note-ISN or Note-subject, not both. If you specified A in the Command parameter, you must not specify an ISN. Output: the ISN is returned for commands A, M and D.
Object-number	N2	O		The type of object to which the note is attached. Must be one of the following: 3=appointment, 11=document, 16=meeting.
Document-name	A32	O*		Pertains only to attaching (Command A or M) a notepad page to a document (Object-number 11). Name of the document to which the note is (to be) attached. Either Document-name or Object-ISN, not both.
Object-ISN	P10	O*		Pertains only to attaching (Command A or M) a notepad page. ISN of the document, appointment or meeting (Object-number 3,11 or 16) to which the note is (to be) attached. Either Object-ISN or Document-name, not both.
Note-text	A37/1:10	R	X	Input of the note text for Command A or M. Output for Command D.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both (here: Note-subject or Note-ISN)
09	ISN does not point to correct object
13	Invalid object number
51	Invalid name - Note-subject must not be blank
53	Requested object does not exist
59	Requested procedure not found
90	Subject of note must not consist of noisewords only
91	Note cannot be attached to a document when Command E or D
92	Notepad text lines must not be blank when Command A or M
93	Document, meeting or appointment was not found
94	ISN of document, meeting or appointment was not found
95	ISN does not point to a document, meeting or appointment
96	Supply either Document-name or Object-ISN, not both
97	Note-ISN is not allowed when Command A
98	25 notes have already been attached to document, meeting or appointment
99	Note subject is not unique in the cabinet

Subprograms

Z-120
Z-122
Z-135
Z-175
Z-190
Z-711

Example

```
0010 *
0020 *   Example program to add and attach a notepad page.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE      (N2)
0070 1 CABINET          (A8)
0080 1 PASSWORD         (A8)
0090 1 COMMAND          (A1)
0100 1 NOTE-SUBJECT     (A32)
0110 1 NOTE-ISN         (P10)
0120 1 NOTE-TEXT        (A37/1:10)
0130 1 OBJECT-NUMBER    (N2)
0140 1 DOCUMENT-NAME    (A32)
0150 1 OBJECT-ISN       (P10)
0160 *
0170 *
0180 END-DEFINE
0190 *
0200 RESET RETURN-CODE
0210 MOVE 'CABINET '    TO CABINET
0220 MOVE 'PASSWORD'    TO PASSWORD
0230 MOVE 'A'           TO COMMAND       /* A=add
0240 MOVE 'NOTE SUBJECT'TO NOTE-SUBJECT
0250 MOVE '11'          TO OBJECT-NUMBER /* 11=document
0260 MOVE 'DOCUMENT NAME'        TO DOCUMENT-NAME
0270 MOVE 'NOTE TEXT 1st STRING' TO NOTE-TEXT(1)
0280 MOVE 'NOTE TEXT 2nd STRING' TO NOTE-TEXT(2)
0290 *
0300 CALLNAT 'Z-NOTE'
0310   RETURN-CODE
0320   CABINET
0330   PASSWORD
0340   COMMAND
0350   NOTE-SUBJECT
0360   NOTE-ISN
0370   OBJECT-NUMBER
0380   DOCUMENT-NAME
0390   OBJECT-ISN
0400   NOTE-TEXT(*)
0410 *
0420 IF RETURN-CODE EQ 0
0430   WRITE 'Note entered and attached to document'
0440 ELSE
0450   WRITE 'Return code ' RETURN-CODE
0460 END-IF
0470 END
```

Z-OPSEQ

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Load the printer open sequence; i.e. initialize the Con-form defaults. This subprogram can only be used with Z-DRIVER.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The name of the cabinet which contains the printer profile.
Report-number	B1	R		0 to 31.

Return Codes

00	Success
91	Invalid report number

Subprograms

None

Example

See the example for Z-DRIVER.

Z-PRI11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Print a document.

The document must be in a printable format (i.e. document format Txt or Cnf).

When you print a Cnf document, the printed version shows all Con-form instructions. A Cnf document is not formatted (see Z-PRI11F, Z-PRI11G or Z-PRI11I for this function).

When you access Con-nect from a PC, you can also print the document on the printer with is connected to your PC.

The calling routine should contain a printer definition of the following form:

```
IF PRINTER-TID EQ 'PC'
   DEFINE PRINTER(#OUT=5)
ELSE
   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
END-IF
```

The following rules apply:

- If Printer-TID equals binary zero (format B8), DEFINE PRINTER is not executed.
- If Printer-TID equals blank or PC, DEFINE PRINTER (5) is executed regardless of the current device. There is one exception: if Printer-TID equals PC and *DEVICE does not equal PC, return code 5 is issued and the routine ends.
- Any other value of Printer-TID issues the following, regardless of the current device:

  ```
  DEFINE PRINTER (5) OUTPUT PRINTER-TID
  ```

When you print a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to the file Opened.

Successful termination of Z-PRI11 always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the document is to be printed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be printed. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be printed. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used.
Page-length	N3	O		The number of lines per printed page. Values 1 to 250. Default: 60.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
05	TID/LU device is not a personal computer
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
57	Document contains no text
80	Document is not correctly structured
88	Document is not in correct format for printing
90	Incorrect page width - must be 1 through 250

Subprograms

Z-0711A
Z-120
Z-122
Z-123
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 DEFINE DATA LOCAL
0020 01 RETURN-CODE   (N2)
0030 01 CABINET       (A8)
0040 01 PASSWORD      (A8)
0050 01 DOCUMENT-NAME (A32)
0060 01 ISN           (P8)
0070 01 PRINTER-TID   (A8)
0080 01 PAGE-LENGTH   (N3)
0090 END-DEFINE
0100 *
0110 MOVE 'TID     ' TO PRINTER-TID
0120 *
0130 IF PRINTER-TID EQ 'PC'
0140    DEFINE PRINTER(#OUT=5)
0150 ELSE
0160    DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
0170 END-IF
0180 *
0190 FORMAT(#OUT) PS=250 LS=219
0200 *
0210 MOVE 'USER-ID ' TO CABINET
0220 MOVE 'PASSWORD' TO PASSWORD
0230 MOVE 'REPORT-1' TO DOCUMENT-NAME
0240 *
0250 CALLNAT 'Z-PRI11' RETURN-CODE CABINET PASSWORD DOCUMENT-NAME ISN
0260                   PRINTER-TID PAGE-LENGTH
0270 *
0280 IF RETURN-CODE EQ 0
0290   WRITE 'Document was printed' RETURN-CODE
0300 ELSE
0310   WRITE 'Return code' RETURN-CODE
0320 END-IF
0330 *
0340 END
```

Z-PRI11F

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Format and print a Cnf or Int document. You can also use this subprogram to print a Txt document.

You must ensure that Con-form is available to the calling program.

When you mark the parameter Enclosures, all enclosures must be in a printable format (i.e. Txt, Cnf or Int). If one of the enclosures is not in a printable format, return code 88 is issued.

When you access Con-nect from a PC, you can also print the formatted document on the printer that is connected to your PC.

The calling routine should contain a printer definition of the following form:

```
IF PRINTER-TID EQ 'PC'
   DEFINE PRINTER(#OUT=5)
ELSE
   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
END-IF
```

The following rules apply:

- If Printer-TID equals binary zero (format B8), DEFINE PRINTER is not executed.
- If Printer-TID equals blank or PC, DEFINE PRINTER (5) is executed regardless of the current device. There is one exception: if Printer-TID equals PC and *DEVICE does not equal PC, return code 5 is issued and the routine ends.
- Any other value of Printer-TID issues the following, regardless of the current device:

  ```
  DEFINE PRINTER (5) OUTPUT PRINTER-TID
  ```

When you print a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to the file Opened.

Successful termination of Z-PRI11F always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the document is to be printed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be printed. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be printed. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used.
Printer-profile	A32	O		The name of the printer profile which is to be assigned to the printer. When you do not fill this parameter, a printer profile is not used.
Format-profile	A32	O		The name of the formatting profile which is to be used. When you do not fill this parameter, a formatting profile is not used.
System-variables	A1	O		If marked, the system variables are replaced with the appropriate values.
Enclosures	A1	O		If marked, the enclosures are printed. The enclosures must have the format Cnf, Int or Txt.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
05	TID/LU device is not a personal computer
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
81	Invalid formatting profile name
82	Requested formatting profile does not exist
83	Invalid printer profile name
84	Requested printer profile does not exist
85	Compiled version of printer profile not found
86	Printer driver module can not be loaded
87	System address record for system variables not found
88	Document is not in correct format for printing

Subprograms

Z-0711F
Z-105
Z-120
Z-122
Z-123
Z-165
Z-170
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-PRI11G

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Format and print a Cnf or Int document. You can also use this subprogram to print a Txt document.

You must ensure that Con-form is available to the calling program.

This subprogram is the same as Z-PRI11F with the exception that additional parameters (i.e. the parameter From-page, To-page and Reset-buffer) have been introduced.

Note:
In previous versions of Con-nect the default value for the left margin was set to 5. As of Con-nect version 3.3.2, the value for the left margin is taken from the user profile.

When you mark the parameter Enclosures, all enclosures must be in a printable format (i.e. Txt, Cnf or Int). If one of the enclosures is not in a printable format, return code 88 is issued.

To reset the Con-form buffer after the formatted document has been printed, you must mark the parameter Reset-buffer.

When you access Con-nect from a PC, you can also print the formatted document on the printer with is connected to your PC.

The calling routine should contain a printer definition of the following form:

```
IF PRINTER-TID EQ 'PC'
   DEFINE PRINTER(#OUT=5)
ELSE
   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
END-IF
```

The following rules apply:

- If Printer-TID equals binary zero (format B8), DEFINE PRINTER is not executed.
- If Printer-TID equals blank or PC, DEFINE PRINTER (5) is executed regardless of the current device. There is one exception: if Printer-TID equals PC and *DEVICE does not equal PC, return code 5 is issued and the routine ends.

- Any other value of Printer-TID issues the following, regardless of the current device:

  ```
  DEFINE PRINTER (5) OUTPUT PRINTER-TID
  ```

When you print a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to the file Opened.

Successful termination of Z-PRI11G always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the document is to be printed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be printed. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be printed. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used.
From-page	N3	O		When page breaks have been defined, you can specify at which page the formatted printout is to start.
To-page	N3	O		When page breaks have been defined, you can specify at which page the formatted printout is to end.
Printer-profile	A32	O		The name of the printer profile which is to be assigned to the printer. When you do not fill this parameter, a printer profile is not used.
Format-profile	A32	O		The name of the formatting profile which is to be used. When you do not fill this parameter, a formatting profile is not used.
System-variables	A1	O		If marked, the system variables are replaced with the appropriate values.
Enclosures	A1	O		If marked, the enclosures are printed. The enclosures must have the format Cnf, Int or Txt.
Reset-buffer	A1	O		If marked, the Con-form buffer is reset after all formatted documents have been printed.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
05	TID/LU device is not a personal computer
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
81	Invalid formatting profile name
82	Requested formatting profile does not exist
83	Invalid printer profile name
84	Requested printer profile does not exist
85	Compiled version of printer profile not found
86	Printer driver module can not be loaded
87	System address record for system variables not found
88	Document is not in correct format for printing
90	Parameter From-page must not be greater than To-page

Subprograms

Z-105
Z-120
Z-122
Z-123
Z-165
Z-170
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-PRI11I

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Format and print a Cnf or Int document. You can also use this subprogram to print a Txt document.

You must ensure that Con-form is available to the calling program.

This subprogram is the same as Z-PRI11G with the exception that additional parameters have been introduced (see the flags at the end of the parameter list).

Note:
In previous versions of Con-nect the default value for the left margin was set to 5. As of Con-nect version 3.3.2, the value for the left margin is taken from the user profile.

When you mark the parameter Enclosures, all enclosures must be in a printable format (i.e. Txt, Cnf or Int). If one of the enclosures is not in a printable format, return code 88 is issued.

To reset the Con-form buffer after the formatted document has been printed, you must mark the parameter Reset-buffer.

When you access Con-nect from a PC, you can also print the formatted document on the printer with is connected to your PC.

The calling routine should contain a printer definition of the following form:

```
IF PRINTER-TID EQ 'PC'
   DEFINE PRINTER(#OUT=5)
ELSE
   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
END-IF
```

The following rules apply:

- If Printer-TID equals binary zero (format B8), DEFINE PRINTER is not executed.
- If Printer-TID equals blank or PC, DEFINE PRINTER (5) is executed regardless of the current device. There is one exception: if Printer-TID equals PC and *DEVICE does not equal PC, return code 5 is issued and the routine ends.

- Any other value of Printer-TID issues the following, regardless of the current device:

  ```
  DEFINE PRINTER (5) OUTPUT PRINTER-TID
  ```

When you print a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to the file Opened.

Successful termination of Z-PRI11I always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the document is to be printed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be printed. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be printed. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used.
From-page	N3	O		When page breaks have been defined, you can specify at which page the formatted printout is to start.
To-page	N3	O		When page breaks have been defined, you can specify at which page the formatted printout is to end.
Printer-profile	A32	O		The name of the printer profile which is to be assigned to the printer. When you do not fill this parameter, a printer profile is not used.
Format-profile	A32	O		The name of the formatting profile which is to be used. When you do not fill this parameter, a formatting profile is not used.
System-variables	A1	O		If marked, the system variables are replaced with the appropriate values.
Enclosures	A1	O		If marked, the enclosures are printed. The enclosures must have the format Cnf, Int or Txt.
Reset-buffer	A1	O		If marked, the Con-form buffer is reset after all formatted documents have been printed.
Flags				
Open-flag	L	O		If true, the printer is initialized before each formatted printout. If false, initialization is suppressed. Default: false.
Close-flag	L	O		If true, the printer is reset to its original state after each formatted printout. If false, resetting is suppressed. Default: false.
Message-flag	L	O		If true, Con-form messages are printed. If false, Con-form messages are suppressed. Default: false.
Main-printer-flag	L	O		If true, Con-form messages are sent to Natural report 0 (monitor). If false, Con-form messages appear in the formatted text. Default: false. Applies only, if the parameter Message-flag is true.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
05	TID/LU device is not a personal computer
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
81	Invalid formatting profile name
82	Requested formatting profile does not exist
83	Invalid printer profile name
84	Requested printer profile does not exist
85	Compiled version of printer profile not found
86	Printer driver module can not be loaded
87	System address record for system variables not found
88	Document is not in correct format for printing
90	Parameter From-page must not be greater than To-page

Subprograms

Z-105
Z-120
Z-122
Z-123
Z-165
Z-170
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-PRI11X

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Print a document.

This subprogram is the same as Z-PRI11 with the one exception that the parameter ISN uses the format P10.

The document must be in a printable format (i.e. document format Txt or Cnf).

When you print a Cnf document, the printed version shows all Con-form instructions. A Cnf document is not formatted (see Z-PRI11F, Z-PRI11G or Z-PRI11Y for this function).

When you access Con-nect from a PC, you can also print the document on the printer with is connected to your PC.

The calling routine should contain a printer definition of the following form:

```
IF PRINTER-TID EQ 'PC'
   DEFINE PRINTER(#OUT=5)
ELSE
   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
END-IF
```

The following rules apply:

- If Printer-TID equals binary zero (format B8), DEFINE PRINTER is not executed.
- If Printer-TID equals blank or PC, DEFINE PRINTER (5) is executed regardless of the current device. There is one exception: if Printer-TID equals PC and *DEVICE does not equal PC, return code 5 is issued and the routine ends.
- Any other value of Printer-TID issues the following, regardless of the current device:

  ```
  DEFINE PRINTER (5) OUTPUT PRINTER-TID
  ```

When you print a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to the file Opened.

Successful termination of Z-PRI11X always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the document is to be printed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be printed. Either Document-name or ISN, not both.
ISN	P10	R*		The ISN of the document to be printed. Either ISN or Document-name, not both. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used.
Page-length	N3	O		The number of lines per printed page. Values 1 to 250. Default: 60.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
05	TID/LU device is not a personal computer
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
57	Document contains no text
80	Document is not correctly structured
88	Document is not in correct format for printing
90	Incorrect page width - must be 1 through 250

Subprograms

Z-0711A
Z-120
Z-122
Z-123
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 *
0020 * Example program to print a document.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE         (N2)
0070 1 CABINET             (A8)
0080 1 PASSWORD            (A8)
0090 1 DOCUMENT-NAME       (A32)
0100 1 ISN                 (P10)
0110 1 PRINTER-TID         (A8)
0120 1 PAGE-LENGTH         (N3)
0130 *
0140 END-DEFINE
0150 *
0160 RESET RETURN-CODE
0170 *
0180 MOVE 'TID     ' TO PRINTER-TID
0190 *
0200 IF  PRINTER-TID EQ 'PC'
0210   DEFINE PRINTER(#OUT=5)
0220 ELSE
0230   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
0240 END-IF
0250 *
0260 FORMAT(#OUT) PS=250 LS=129
0270 *
0280 MOVE 'CABINET'  TO CABINET
0290 MOVE 'PASSWORD' TO PASSWORD
0300 MOVE 1234567890 TO ISN
0310 *
0320 CALLNAT 'Z-PRI11X'
0330   RETURN-CODE
0340   CABINET
0350   PASSWORD
0360   DOCUMENT-NAME
0370   ISN
0380   PRINTER-TID
0390   PAGE-LENGTH
0400 *
0410 IF  RETURN-CODE EQ 0
0420   WRITE 'Document was printed' RETURN-CODE
0430 ELSE
0440   WRITE 'Return code ' RETURN-CODE
0450 END-IF
0460 *
0470 END
```

Z-PRI11Y

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Format and print a Cnf or Int document. You can also use this subprogram to print a Txt document.

You must ensure that Con-form is available to the calling program.

This subprogram is the same as Z-PRI11I with the one exception that the parameter ISN uses the format P10.

When you mark the parameter Enclosures, all enclosures must be in a printable format (i.e. Txt, Cnf or Int). If one of the enclosures is not in a printable format, return code 88 is issued.

To reset the Con-form buffer after the formatted document has been printed, you must mark the parameter Reset-buffer.

When you access Con-nect from a PC, you can also print the formatted document on the printer with is connected to your PC.

The calling routine should contain a printer definition of the following form:

```
IF PRINTER-TID EQ 'PC'
   DEFINE PRINTER(#OUT=5)
ELSE
   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
END-IF
```

The following rules apply:

- If Printer-TID equals binary zero (format B8), DEFINE PRINTER is not executed.
- If Printer-TID equals blank or PC, DEFINE PRINTER (5) is executed regardless of the current device. There is one exception: if Printer-TID equals PC and *DEVICE does not equal PC, return code 5 is issued and the routine ends.

- Any other value of Printer-TID issues the following, regardless of the current device:

  ```
  DEFINE PRINTER (5) OUTPUT PRINTER-TID
  ```

When you print a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read. Additionally, the document is moved from the file New to the file Opened.

Successful termination of Z-PRI11Y always results in an END TRANSACTION. You are not able to control transaction handling.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
Cabinet	A8	R		The cabinet in which the document is to be printed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be printed. Either Document-name or ISN, not both.
ISN	P10	R*		The ISN of the document to be printed. Either ISN or Document-name, not both. You can invoke Z-DIS11X prior to this subprogram to obtain the ISN for the desired document.
Printer-TID	A8	R		The terminal ID number, LU number or comparable terminal destination for the printer which is to be used.
From-page	N3	O		When page breaks have been defined, you can specify at which page the formatted printout is to start.
To-page	N3	O		When page breaks have been defined, you can specify at which page the formatted printout is to end.
Printer-profile	A32	O		The name of the printer profile which is to be assigned to the printer. When you do not fill this parameter, a printer profile is not used.
Format-profile	A32	O		The name of the formatting profile which is to be used. When you do not fill this parameter, a formatting profile is not used.
System-variables	A1	O		If marked, the system variables are replaced with the appropriate values.
Enclosures	A1	O		If marked, the enclosures are printed. The enclosures must have the format Cnf, Int or Txt.
Reset-buffer	A1	O		If marked, the Con-form buffer is reset after all formatted documents have been printed.
Flags				
Open-flag	L	O		If true, the printer is initialized before each formatted printout. If false, initialization is suppressed. Default: false.
Close-flag	L	O		If true, the printer is reset to its original state after each formatted printout. If false, resetting is suppressed. Default: false.
Message-flag	L	O		If true, Con-form messages are printed. If false, Con-form messages are suppressed. Default: false.
Main-printer-flag	L	O		If true, Con-form messages are sent to Natural report 0 (monitor). If false, Con-form messages appear in the formatted text. Default: false. Applies only, if the parameter Message-flag is true.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
05	TID/LU device is not a personal computer
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
81	Invalid formatting profile name
82	Requested formatting profile does not exist
83	Invalid printer profile name
84	Requested printer profile does not exist
85	Compiled version of printer profile not found
86	Printer driver module can not be loaded
87	System address record for system variables not found
88	Document is not in correct format for printing
90	Parameter From-page must not be greater than To-page

Subprograms

Z-105
Z-120
Z-122
Z-123
Z-165
Z-170
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 *
0020 * Example program format and print a Cnf or Int document.
0030 *
0040 DEFINE DATA
0050 LOCAL
0060 1 RETURN-CODE         (N2)
0070 1 CABINET             (A8)
0080 1 PASSWORD            (A8)
0090 1 DOCUMENT-NAME       (A32)
0100 1 ISN                 (P10)
0110 1 PRINTER-TID         (A8)
0120 1 FROM-PAGE           (N3)
0130 1 TO-PAGE             (N3)
0140 1 PRINTER-PROFILE     (A32)
0150 1 FORMAT-PROFILE      (A32)
0160 1 SYSTEM-VARIABLES    (A1)
0170 1 ENCLOSURES          (A1)
0180 1 RESET-BUFFER        (A1)
0190 1 OPEN-FLAG           (L)
0200 1 CLOSE-FLAG          (L)
0210 1 MESSAGE-FLAG        (L)
0220 1 MAIN-PRINTER-FLAG   (L)
0230 *
0240 END-DEFINE
0250 *
0260 RESET RETURN-CODE
0270 *
0280 MOVE 'TID     ' TO PRINTER-TID
0290 *
0300 IF  PRINTER-TID EQ 'PC'
0310   DEFINE PRINTER(#OUT=5)
0320 ELSE
0330   DEFINE PRINTER(#OUT=5) OUTPUT PRINTER-TID
0340 END-IF
0350 *
0360 FORMAT(#OUT) PS=250 LS=129
0370 *
0380 MOVE 'CABINET'  TO CABINET
0390 MOVE 'PASSWORD' TO PASSWORD
0400 MOVE 1234567890 TO ISN
0410 *
0420 MOVE 'X'        TO SYSTEM-VARIABLES
0430 MOVE 'X'        TO ENCLOSURES
0440 MOVE 'X'        TO RESET-BUFFER
0450 MOVE TRUE       TO MESSAGE-FLAG
0460 *
0470 CALLNAT 'Z-PRI11Y'
0480   RETURN-CODE
0490   CABINET
0500   PASSWORD
0510   DOCUMENT-NAME
0520   ISN
0530   PRINTER-TID
0540   FROM-PAGE
0550   TO-PAGE
0560   PRINTER-PROFILE
0570   FORMAT-PROFILE
0580   SYSTEM-VARIABLES
0590   ENCLOSURES
0600   RESET-BUFFER
```

```
0610   OPEN-FLAG
0620   CLOSE-FLAG
0630   MESSAGE-FLAG
0640   MAIN-PRINTER-FLAG
0650 *
0660 IF  RETURN-CODE EQ 0
0670   WRITE ’Document was printed’ RETURN-CODE
0680 ELSE
0690   WRITE ’Return code ’ RETURN-CODE
0700 END-IF
0710 *
0720 END
```

Z-REN05

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Mark a cabinet for renaming purposes.

Only a supervisor or cabinet administrator can use this subprogram.

After a cabinet has been marked, it is not renamed until the date specified in the parameter Date-rename has been reached and utility "Rename Pending Cabinets" is run. For further information, see the *Con-nect Utilities* documentation.

This subprogram can also be used to cancel a cabinet for rename and to obtain the status of a cabinet.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1:no ET.
Cabinet	A8	R		The cabinet ID of a supervisor or cabinet administrator.
Password	A8	R		The password of the above cabinet.
Function	A1	R		S=set status to pending for renaming. R=reset status pending for renaming. D=display status.
Current-cabinet-name	A8	R		Name of cabinet before rename.
New-cabinet-name	A8	R		Pertains only to Function S. The name of the cabinet after rename completed.
Date-rename	A8	O		Pertains only to Function S. Format=yyyymmdd. Date specified is interpreted as GMT date and GMT time as 0. If date is not specified, the current date is assumed.
Status-pending-rename	A1		X	X=cabinet is marked for rename. Empty=cabinet is not marked for rename.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
15	Invalid administrator status
51	Invalid name (check syntax for New-cabinet-name)
52	Object with specified name already exists (New-cabinet-name)
90	Function is not correct
91	Cabinet record does not exist
92	Cabinet is already marked for rename
93	Cabinet is already marked for move
94	Cabinet is already marked for deletion
95	New-cabinet-name already used as new name for another cabinet
96	Invalid date format
97	Passed date
98	Cabinet was not marked for rename
99	Cabinet SYSCNT must not be used

Subprograms

Z-122
Z-120
Z-123
Z-1200&0
Z-MPPNM

Example

```
0010 DEFINE DATA
0020 *
0030 LOCAL
0040 1 RETURN-CODE           (N2)
0050 1 CABINET               (A8)
0060 1 PASSWORD              (A8)
0070 1 FUNCTION              (A1)
0080 1 CURRENT-CABINET-NAME  (A8)
0090 1 NEW-CABINET-NAME      (A8)
0100 1 DATE-RENAME           (A8)
0110 1 STATUS-PENDING-RENAME (A1)
0120 *
0130 END-DEFINE
0140 *
0150 MOVE 'CABINET'   TO CABINET
0160 MOVE 'PASSWORD'  TO PASSWORD
0170 MOVE 'S'         TO FUNCTION
0180 MOVE 'TEST1'     TO CURRENT-CABINET-NAME
0190 MOVE 'TEST2'     TO NEW-CABINET-NAME
0200 MOVE  19991010   TO DATE-RENAME
0210 *
0220 CALLNAT 'Z-REN05'
0230         RETURN-CODE
0240         CABINET
0250         PASSWORD
0260         FUNCTION
0270         CURRENT-CABINET-NAME
0280         NEW-CABINET-NAME
0290         DATE-RENAME
0300         STATUS-PENDING-RENAME
0310 *
0320 IF RETURN-CODE EQ 0
0330         WRITE 'The cabinet 'CURRENT-CABINET-NAME' is
0340                 marked for renaming '
0350 ELSE
0360         WRITE 'Return code' RETURN-CODE
0370 END-IF
0380 *
0390 END
```

Z-REPLY

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Reply to mail.

The mail item to which you want to reply must be contained in the folder Inbasket, regardless whether it has already been read or not. You can reply to a document, memo or invitation. You can send your reply to the sender, the forwarder or both.

When you reply to a document or memo item which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document or memo indicates that it has been read. Additionally, the document or memo is moved from the file New to the file Opened. In this case, END TRANSACTION is automatically issued.

The parameters Inbasket-ISN, Reply-to and one of the Reply* parameters (name, ISN or text) are required. The parameter Inbasket-ISN must contain the ISN of the mail item you are replying to. To obtain the ISN, you can call, for example, Z-DIS13A prior to calling Z-REPLY. The parameter Reply-to specifies to whom you are sending the reply. The Reply* parameters (name, ISN or text) offer several possibilities to create the text of the reply - you must specify only one of these parameters, not all.

If the parameter Reply-name is filled, Z-REPLY searches for a document with this name and copies the main text of this document to the reply.

If the parameter Reply-ISN is filled, Z-REPLY searches for an object with this ISN and copies the main text of this object to the reply. It is not required that the object is a document.

If the parameter Reply-text is marked, Z-REPLY creates a reply from the contents of the Natural edit area. The edit area contents are not changed. The example below demontrates how to use this method to specify the text.

Note:
"*/" in the first two positions of a line in the Natural edit area generates a new page in the text.

When the reply was sent, the parameter Outbasket-ISN contains the ISN of the new Outbasket entry.

When a value other than 0 is returned in the parameter Return-code, BACKOUT TRANSACTION is automatically issued.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet from which the reply is to be sent.
Password	A8	R		The password of the above cabinet.
Inbasket-ISN	P10	R		The ISN of the mail item on which the reply is to be sent.
Outbasket-ISN	P10		X	The ISN of the new Outbasket entry.
Reply-to	A1	R		Must be one of the following: 1 = reply is sent to sender; 2 = reply is sent to forwarder; 3 = reply is sent to both sender and forwarder.
Reply-name	A32	R*		If specified, the reply text is copied from a document with this name.
Reply-ISN	P10	R*		If specified, the reply text is copied from an object with this ISN.
Reply-text	A1	R*		If marked, the reply text is copied from the Natural edit area.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	Inbasket ISN was not found
08	Supply name, ISN, or text for reply, not all
09	Inbasket ISN does not point to correct object
18	API context buffer not available
21	Addressee not found
24	Security violation
27	Cover note (i.e. reply text) is required
53	Requested document does not exist
57	Requested object does not contain a main text
60	Edit area is empty
90	Transport service object could not be created
99	Internal error

Subprograms

Z-RAREC
Z-RASSTX
Z-RCONFM
Z-RINITM
Z-110
Z-120
Z-122
Z-123
Z-124
Z-145
Z-147
Z-161
Z-165
Z-168
Z-175
Z-177
Z-185
Z-191
Z-191A
Z-194
Z-194A
Z-197
Z-197A
Z-200B
Z-201
Z-201B
Z-202
Z-207
Z-208
Z-211
Z-212
Z-213
Z-215
Z-216
Z-221
Z-222
Z-223
Z-224
Z-225
Z-241
Z-373
Z-400
Z-401
Z-402
Z-403
Z-404
Z-406
Z-407

Z-747
Z-1200&0

Example

```
0010 *
0020 *
0030 *
0040 * This example assumes that the ISN of the Inbasket item
0050 * and the text of the reply have been checked by a previous
0060 * main routine
0070 *
0080 DEFINE DATA
0090 *
0100 PARAMETER
0110 *
0120 1 RETURN-CODE                (N2)
0130 1 CABINET                    (A8)
0140 1 PASSWORD                   (A8)
0150 1 INBASKET-ISN               (P10)
0160 1 TEXT-LINES                 (A70/1:20)
0170 *
0180 LOCAL
0190 *
0200 1 OUTBASKET-ISN              (P10)
0210 1 REPLY-TO                   (A1)
0220 1 REPLY-NAME                 (A32)
0230 1 REPLY-ISN                  (P10)
0240 1 REPLY-TEXT                 (A1)
0250 *
0260 1 INX                        (P3)
0270 *
0280 END-DEFINE
0290 *
0300 * Prepare destination 'SOURCE' and write
0310 * the text lines into the Natural edit area
0320 *
0330 DEFINE PRINTER (#OUT=1) OUTPUT 'SOURCE'
0340 FORMAT (#OUT) LS=80 PS=60
0350 SET CONTROL 'Z'
0360 *
0370 FOR  INX EQ 1 TO 20
0380      WRITE (#OUT) NOTITLE TEXT-LINES (INX)
0390 END-FOR
0400 *
0410 * Now send reply to sender, incl. ET
0420 *
0430 RESET                 RETURN-CODE
0440 MOVE '1'           TO REPLY-TO
0450 MOVE 'X'           TO REPLY-TEXT
0460 *
0470 CALLNAT 'Z-REPLY'
0480      RETURN-CODE
0490      CABINET
0500      PASSWORD
0510      INBASKET-ISN
0520      OUTBASKET-ISN
0530      REPLY-TO
0540      REPLY-NAME
```

```
0550      REPLY-ISN
0560      REPLY-TEXT
0570 *
0580 END
```

Z-SCAN11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Search for a specific character string (search value) in a document.

A scan of the search value can be made in the description, body of document, cover notes, enclosed documents and attached notes, depending upon the value(s) defined in parameter Items-to-scan.

Only documents and enclosed documents with a document format of either 0 (Txt) or 1 (Cnf) are scanned.

This subprogram first searches the description, then cover note text, body of document, text of enclosed documents and lastly, attached notes.

This subprogram does not return search values which exceed more than one line. For example, if an instance of the search value, John Eshberry, begins on line 22 and continues onto line 23, this instance is not returned.

If you mark the parameter Search-by-pattern, you can define the search value as a pattern. One of the following symbols can then be defined in the search value:

- Period (.), question mark (?) or underscore (_). These symbols are used when a single position is to be ignored. For example, if the search value C?????M is defined, the strings CONFORM, Calcium and Centrum may be returned.
- Asterisk (*) or percentage symbol (%). These symbols are used when multiple positions are to be ignored. For example, if the search value C*M is defined, the strings Calm, CD-ROM, Cocopalm and also Document may be returned.

The Search-by-pattern logic is based on the EXAMINE statement and its PATTERN option. For further information, see the Natural documentation.

If no occurrence of the search value is found, code 90 is returned.

Each line of text that contains the search value is returned in the Text-table array.

This subprogram should be invoked iteratively until the return code 77 indicates that the document including all cover notes, enclosures and attached notes has been read.

Notes:

1. To return an item that is stored in the folder Inbasket, Outbasket or Wastebasket, you must pass the ISN which has been returned from a previous API subprogram.
2. If a document does not have a name (i.e. if the document is identified by its description), it can only be returned using the ISN.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the document to be scanned.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document that you want to scan. Either Document-name or ISN, not both.
ISN	P10	R*		The ISN of document that you want to scan. Either ISN or Document-name, not both.
Search-value	A32	R		Character string to be searched in the document.
Search-with-delimiters	A1	O		If marked, the search is restricted to whole words (i.e. a character string that is not delimited by blanks or any alphanumeric character). If not marked, each character string which matches the search value is found, regardless of the characters directly before or after the string.
Search-by-pattern	A1	O		If marked, Search-value is used as a pattern. In this case, certain characters in the search value (period, question mark, underscore, asterisk and percentage symbol) indicate the position(s) to be ignored.
Search-case-sensitive	A1	O		If marked, the search is case-sensitive. If not marked, both upper-case and lower-case characters are found.
Items-to-scan	A5	R		The part(s) of the document to be scanned: D=description, B=body of the document, C=cover note, E=enclosed document, N=attached note. For example, DBC means that only description, body of the document and cover note are scanned.
Document-format	A1		X	Format of the body of the document. See **Document Formats**.
Lines-in-text-table	P2		X	Number of filled lines returned in the parameter Text-table with the current subprogram call.
Text-table (20)				
Scanned-document-item	A1		X	D=description, B=body of the document, C=cover note, E=enclosed document, N=attached note.

Parameter	Format	In	Out	Remarks
Item-sequential-number	P3		X	The sequence number for both the description and the body of the document is 1. For all other items of the document , the sequence number of the cover note, enclosed document or attached note is returned.
Line-sequential-number	P7		X	Internal sequential line number for an item. For document text, this is the line number that appears in the "Display Document" screen.
Number-of-found-strings	P3		X	Number of times, a string is found in this line.
Text-line	A250		X	Line of text in which the search string is found.
Work-parameter-1	A240			For internal use. See **The Work Parameter**.
Work-parameter-2	A91			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
15	Invalid administrator status
51	Invalid name
53	Requested object does not exist
57	Document contains no text
77	End of object
90	Incorrect item
91	Character string not found
92	Supply search value

Subprograms

Z-120
Z-122
Z-123
Z-165
Z-175
Z-194
Z-197

Z-222
Z-223
Z-400
Z-401
Z-1200&0

Example

```
0010 *
0020 * Search for a text string in all documents of a cabinet
0030 *
0040 *
0050 DEFINE DATA LOCAL
0060 1 DIS-RETURN-CODE        (N2)
0070 1 CABINET                (A8)
0080 1 PASSWORD               (A8)
0090 1 FOLDER-NAME            (A15)
0100 1 FILE-NAME              (A15)
0110 1 FILE-NUMBER            (N5)
0120 1 FOLDER-NUMBER          (N5)
0130 1 FOLDER-SEQUENCE        (N1)
0140 1 START-VALUE            (A32)
0150 1 NUMBER                 (N2)
0160 1 DOCUMENT-TABLE         (1:20)
0170   2 ISN                  (P08)
0180   2 DOCUMENT-NAME        (A32)
0190   2 DESCRIPTION          (A60)
0200   2 DOCUMENT-FORMAT      (A1)
0210   2 STORED-IN-FILE       (A15)
0220   2 DATE-FIELD           (N8)
0230   2 NAME-SENT-TO/BY      (A20)
0240   2 MAILCOUNT            (N7)
0250 1 WORK-PARAMETER         (A49)
0260 *
0270 1 SCAN-RETURN-CODE          (N2)
0280 1 SCAN-DOCUMENT-NAME        (A32)
0290 1 SCAN-ISN                  (P10)
0300 1 SEARCH-VALUE              (A32)
0310 1 ITEMS-TO-SCAN             (A5)
0320 1 SEARCH-WITH-DELIMITERS    (A1)
0330 1 SEARCH-BY-PATTERN         (A1)
0340 1 SEARCH-CASE-SENSITIVE     (A1)
0350 1 SCAN-DOCUMENT-FORMAT      (A1)
0360 1 LINES-IN-TEXT-TABLE       (P2)
0370 1 TEXT-TABLE                (1:20)
0380   2 SCANNED-DOCUMENT-ITEM   (A1)
0390   2 ITEM-SEQUENTIAL-NUMBER  (P3)
0400   2 LINE-SEQUENTIAL-NUMBER  (P7)
0410   2 NUMBER-OF-FOUND-STRINGS (P3)
0420   2 TEXT-LINE               (A250)
0430 1 WORK-PAR-1                (A240)
0440 1 WORK-PAR-2                (A91)
0450 *
0460 1 #INX1                     (N2)
0470 1 #INX2                     (N2)
0480 1 FIRST-IN-DOCUMENT         (L)
0490 1 STRING-FOUND              (L)
0500 END-DEFINE
0510 *
0520 INPUT (AD=I)
```

```
0530   'CABINET' CABINET /
0540   'PASSWORD' PASSWORD /
0550   'SEARCH VALUE' SEARCH-VALUE /
0560   'ITEMS TO SCAN' ITEMS-TO-SCAN /
0570 *
0580 MOVE TRUE TO STRING-FOUND
0590 REPEAT UNTIL DIS-RETURN-CODE EQ 77
0600   CALLNAT 'Z-DIS11'
0610     DIS-RETURN-CODE
0620     CABINET
0630     PASSWORD
0640     FOLDER-NAME
0650     FILE-NAME
0660     FOLDER-NUMBER
0670     FILE-NUMBER
0680     FOLDER-SEQUENCE
0690     START-VALUE
0700     NUMBER
0710     DOCUMENT-TABLE (*)
0720     WORK-PARAMETER
0730   IF DIS-RETURN-CODE NE 0 AND DIS-RETURN-CODE NE 77
0740     WRITE 'Z-DIS11 interrupted. Error code' DIS-RETURN-CODE
0750     STOP
0760   END-IF
0770 *
0780   FOR #INX1=1 TO 20
0790     IF ISN (#INX1) NE 0 THEN
0800       MOVE ISN (#INX1) TO SCAN-ISN
0810       MOVE TRUE TO FIRST-IN-DOCUMENT
0820 *
0830       REPEAT UNTIL SCAN-RETURN-CODE EQ 77
0840         CALLNAT 'Z-SCAN11'
0850           SCAN-RETURN-CODE
0860           CABINET
0870           PASSWORD
0880           SCAN-DOCUMENT-NAME
0890           SCAN-ISN
0900           SEARCH-VALUE
0910           SEARCH-WITH-DELIMITERS
0920           SEARCH-BY-PATTERN
0930           SEARCH-CASE-SENSITIVE
0940           ITEMS-TO-SCAN
0950           SCAN-DOCUMENT-FORMAT
0960           LINES-IN-TEXT-TABLE
0970           TEXT-TABLE (*)
0980           WORK-PAR-1
0990           WORK-PAR-2
1000 *
1010         DECIDE ON FIRST VALUE OF SCAN-RETURN-CODE
1020           VALUE 0, 77
1030             IF FIRST-IN-DOCUMENT
1040               WRITE (AD=I) / '-' (79) / 'String FOUND in: Document'
1050                 DOCUMENT-NAME (#INX1) (AL=21) '(see text below)'
1060               MOVE TRUE TO STRING-FOUND
1070               MOVE FALSE TO FIRST-IN-DOCUMENT
1080             END-IF
1090             FOR #INX2 1 LINES-IN-TEXT-TABLE
1100               WRITE TEXT-LINE (#INX2) (AL=79)
1110             END-FOR
1120           VALUE 91, 57
1130             IF STRING-FOUND
1140               WRITE / '-' (79) / 'String NOT FOUND in:'
```

```
1150              MOVE FALSE TO STRING-FOUND
1160            END-IF
1170            WRITE (AD=I) 25T 'Document' DOCUMENT-NAME (#INX1)(AL=21)
1180            ESCAPE BOTTOM
1190          NONE VALUE
1200            WRITE 'Z-SCAN11 interrupted. Error code' SCAN-RETURN-CODE
1210            STOP
1220        END-DECIDE
1230 *
1240      END-REPEAT
1250      RESET SCAN-RETURN-CODE SCAN-DOCUMENT-NAME WORK-PAR-1 WORK-PAR-2
1260    END-IF
1270  END-FOR
1280 END-REPEAT
1290 END
```

Z-SEARCH

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return a list of documents, reference documents, folders/files or user-defined objects, which have the specified keywords.

The returned list contains only one kind of object (as specified in the parameter Object-number). Only the objects containing all specified keywords are returned.

This subprogram does not consider system objects (i.e. documents and reference documents which have been created by the administrator in cabinet SYSCNT).

Objects in the Wastebasket do not contain keywords.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

If the returned list is to contain more than 99999 results, you must use Z-SRCHX.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the list is to be returned.
Password	A8	R		The password of the above cabinet.
Keywords	A15/1:6	R		The keywords of the objects that you are searching for. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Object-number	N2	R		The kind of object to be returned: 11=document, 13=folder/file, 27=reference document, 80 to 99=user-defined object.
Object-table (20)				
Object-name	A32		X	The name of the object which contains all specified keywords. The following applies to folders and files: digits 1 to 15 contain the folder name, digits 16 to 30 contain the file name (or blank, if the object is a folder).
ISN	P8		X	The ISN of the object.
Work-parameter	A160			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
13	Invalid object number
54	At least one keyword was invalid
77	End of list
90	Returned list is too large (>99999)

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Z-SRCH03

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return a list of appointments or meetings which have the specified keywords.

The returned list contains only one kind of object (as specified in the parameter Object-number). Only the objects containing all specified keywords are returned.

When a calendar entry extends over several days or when it continues after midnight (e.g. when it is scheduled from 11 PM to 2 AM), it is returned only once.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

You cannot use this subprogram if the returned list is to contain more than 99999 results.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the list is to be returned.
Password	A8	R		The password of the above cabinet.
Keywords-in	A15/1:6	R		The keywords of the calendar entries that you are searching for. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Object-number	N2	R		The kind of object to be returned: 3=appointment, 16=meeting.
Object-table (20)				
Description	A60/1:4		X	The description of the calendar entry.
ISN	P8		X	The ISN of the calendar entry which contains all specified keywords.
Keywords-out	A15/1:6		X	The keywords which have been defined for the calendar entry.
Start-date	A8		X	The starting date of the calendar entry. Format yyyymmdd.
Start-time	A8		X	The starting time of the calendar entry. Format hhmm.
End-date	A8		X	The ending date of the calendar entry. Format yyyymmdd.
End-time	A8		X	The ending time of the calendar entry. Format hhmm.
Location	A60		X	The location of the calendar entry.
Agenda	A32		X	Only applies for a meeting. The name of a document which has been linked to the meeting.
Work-parameter	A160			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
13	Invalid object number
54	At least one keyword was invalid
77	End of list
90	Returned list is too large (>99999)

Subprograms

Z-120
Z-122
Z-123
Z-1200&0

Z-SRCHX

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return a list of documents, reference documents, folders/files or user-defined objects which have the specified search criteria.

The returned list contains only one kind of object (as specified in the parameter Object-number). Only the objects containing all specified keywords are returned.

This subprogram does not consider system objects (i.e. documents and reference documents which have been created by the administrator in cabinet SYSCNT).

Objects in the Wastebasket do not contain keywords.

To specify the search criteria, you can use either the parameter Keywords or the parameter Search-name. You can also use both parameters at the same time.

When you use the parameter Search-name, you enter the first letters of the desired object and an asterisk. For example, to get a list of all documents starting with "Nat", you enter "Nat*".

The following information applies to folders and files.

- When you specify the parameter Search-name and do not specify a keyword, all folders beginning with the specified letters are returned. The list also contains all files in these folders, even if the file names do not start with the specified letters.
- When you specify at least one keyword in addition to the parameter Search-name, the returned list contains only those folders and files that contain the specified keywords. Either the folder name or the file name must meet the search criteria. If the folder name starts with the defined letters and if a file in the folder contains the specified keywords, the file name can also start with different letters. If the file name starts with the defined letters and if the file contains the specified keywords, the name of the folder in which the file is stored can also start with different letters.

This subprogram should be invoked iteratively until the return code 77 indicates the end of the list.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the list is to be returned.
Password	A8	R		The password of the above cabinet.
Keywords	A15/1:6	O		The keywords of the objects that you are searching for. You can specify up to 6 keywords. A keyword must not contain an asterisk (*).
Object-number	N2	R		The kind of object to be returned: 11=document, 13=folder/file, 27=reference document, 80 to 99=user-defined object.
Search-name	A32	O		The first letter(s) of the desired object and an asterisk (e.g. Nat*).
Object-table (20)				
Object-name	A32		X	The name of the object which contains the specified search criteria. The following applies to folders and files: digits 1 to 15 contain the folder name, digits 16 to 30 contain the file name (or blank, if the object is a folder).
ISN	P10		X	The ISN of the object.
Description	A60		X	The first line of the description.
Date-filed	N8		X	The date when the object was filed in this cabinet. Exception: for a folder or file, this is the date when the folder or file was created.
Time-filed	N4		X	The time when the object was filed in this cabinet. Exception: for a folder or file, this is the time when the folder or file was created.
Work-parameter	A172			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
13	Invalid object number
54	At least one keyword was invalid
77	End of list

Subprograms

Z-120
Z-122
Z-123

Z-1200&0

Z-STIME

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return a list of time ranges in which all or most of the specified attendees and/or cabinets are available.

This subprogram can be used, for example, in the following situations:

- **Situation: Basic meeting information and addressees have not been specified.**
  Before calling Z-ADD06 (add the basic information of a meeting) and Z-ADDATT (add attendees and resources to a meeting), run this subprogram with parameter Attendee-ISN. Specifying the parameter Calendar-ISN only makes sense when basic meeting information and addressees have already been added (see below).

- **Situation: Basic meeting information and addressees have been added, but the invitations have not been sent (meeting is pending). You want to search the cabinets of either current attendees or newly added attendees for free time.**
  To search the cabinets of the current attendees for free time, specify parameter Calendar-ISN without Attendee-ISN. The first 50 attendees are checked for free time and the ISNs of all checked attendees are returned.

  To search the cabinets of newly added attendees for free time, specify parameter Attendee-ISNs without Calendar-ISN.

- **Situation: Invitations for a meeting (version *n*) have been sent. You need to modify the basic meeting information or add new attendees (the version number for the meeting will be increased by one).**
  To search the cabinets of the current attendees for free time after modifying the basic meeting information, specify parameter Calendar-ISN without parameter Attendee-ISN. The cabinets of the first 50 previously invited attendees are searched for free time. The time range occupied by the previous version is viewed as free time. The ISNs of the checked attendees are returned.

  To search the cabinets of the newly added attendees for free time, specify parameter Attendee-ISNs without Calendar-ISN.

Up to 24 hours can be specified in the parameters Search-for-hours and Search-for-minutes.

The search period is always set to full quarters of an hour. Example: when you specify the time range 1:14 to 2:33, this is automatically set to 1:15 to 2:30.

The values specified in the parameters Search-for-hours and Search-for-minutes are also set to full quarters of an hour. Example: when you specify 40 minutes, this is automatically set to 45 minutes.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided.

The date range must be less than or equal to 90 days.

If the parameter Separate-daily-entries is specified, the meeting occupies only the specified time range for each day. If the parameter Separate-daily-entries is not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.

All time parameters are interpreted as GMT (0). Therefore, when changing the suggested time ranges into a user time format, it is possible that a continuous time range is split into two days.

Using the parameter Number-of attendees, the array of Attendee-ISNs can be limited.

Each Attendee-ISN is checked and returned in the parameter Return-status.

Found free time is returned in the Free-time-array. This may include up to 20 time ranges. The parameter Found-attendees indicates the number of attendees for which free time was found. If no free time was found for some of the attendees, the Free-time-array provides the 20 best suggestions (in this case, no iterative calls are required).

This subprogram may be invoked iteratively until the return code is 77.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the meeting to be added or modified.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R/O		Required, if Attendee-ISN is not specified. The ISN of the meeting for which the time range is to be changed. If Attendee-ISN is not specified, the first 50 attendees are checked for free time. The time occupied by the previous version of this meeting is viewed as free time.
Start-date	A8	R		The starting date of the meeting. Format yyyymmdd.
Start-time	A4	O		The starting time of the meeting. Format hhmm.
End-date	A8	O		The ending date of the meeting. Format yyyymmdd.
End-time	A4	O		The ending time of the meeting. Format hhmm.
Separate-daily-entries	A1	O		If marked, the meeting occupies only the specified time range for each day. If not marked, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.
Search-for-hours	N2	R		Search for free time: the number of hours.
Search-for-minutes	N2	R		Search for free time: the number of minutes.
Number-of-attendees	I1	R		The number of attendees in whose calendar you want to search for free time. Default and maximum: 50.
Attendee-ISN	P10/1:50	R/O	X	Required, if Calendar-ISN is not specified. The ISN of each attendee's cabinet that is to be searched for free time. For an attendee (object number 1), use the ISN that you have previously returned by one of the Z-GET01 subprograms. For a cabinet (object number 5), use the ISN that you have previously returned by Z-DIS05. Output: If Calendar-ISN is specified without Attendee-ISN, the ISNs of checked attendees are returned.
Return-status	I1/1:50		X	Return status about free time corresponding to the Attendee-ISNs returned. 00=address accepted, 01= address rejected, 04=Attendee-ISN not found, 33=Attendee not unique.
Free-time-array (20)				
Found-start-date	A8		X	Start date of found free time.
Found-start-time	A4		X	Start time of found free time.
Found-end-time	A4		X	End time of found free time.

Parameter	Format	In	Out	Remarks
Found-attendees	I1		X	The number of attendees for which free time was found.
Work-parameter	B1/1:1009			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
18	API context buffer not available
24	Security violation
33	Attendee not unique.
39	Time range too small for search
40	Date range is negative or more than 90 days
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
49	Invalid value for Search-for-hours/Search-for-minutes
50	Value for Search-for-hours/Search-for-minutes is greater than specified time range
77	End of list
96	No free time found

Subprograms

Z-06162
Z-06163
Z-120
Z-122
Z-123
Z-165
Z-175
Z-120&0

Example

```
DEFINE DATA
LOCAL
*
1 RETURN-CODE            (N2)
1 CABINET                (A8)
1 PASSWORD               (A8)
1 CALENDAR-ISN           (P10)
1 START-DATE             (A8)
1 START-TIME             (A4)
1 END-DATE               (A8)
1 END-TIME               (A4)
1 SEPARATE-DAILY-ENTRIES (A1)
1 SEARCH-FOR-HOURS       (N2)
1 SEARCH-FOR-MINUTES     (N2)
1 NUMBER-OF-ATTENDEES    (I1)
1 ATTENDEE-ISN           (P10/1:50)
1 RETURN-STATUS          (I1/1:50)
1 FREE-TIME-ARRAY        (20)
  2 FOUND-START-DATE     (A8)
  2 FOUND-START-TIME     (A4)
  2 FOUND-END-TIME       (A4)
  2 FOUND-ATTENDEES      (I1)
1 WORK-PARAMETER         (B1/1:1009)
END-DEFINE
*
MOVE 'Cabinet'  TO CABINET
MOVE 'Password' TO PASSWORD
* MOVE 117412   TO CALENDAR-ISN /* do not consider previous version!
MOVE '20010505' TO START-DATE
MOVE '1900'     TO START-TIME
MOVE '20010508' TO END-DATE
MOVE '2100'     TO END-TIME
MOVE 'X'        TO SEPARATE-DAILY-ENTRIES
MOVE 2          TO SEARCH-FOR-HOURS
MOVE 00         TO SEARCH-FOR-MINUTES
MOVE 2          TO NUMBER-OF-ATTENDEES
MOVE 29300      TO ATTENDEE-ISN (1)
MOVE 2191       TO ATTENDEE-ISN (2)
*
CALLNAT 'Z-STIME'
  RETURN-CODE
  CABINET
  PASSWORD
  CALENDAR-ISN
  START-DATE
  START-TIME
  END-DATE
  END-TIME
  SEPARATE-DAILY-ENTRIES
  SEARCH-FOR-HOURS
  SEARCH-FOR-MINUTES
  NUMBER-OF-ATTENDEES
  ATTENDEE-ISN(*)
  RETURN-STATUS(*)
  FREE-TIME-ARRAY (*)
  WORK-PARAMETER  (*)
*
WRITE
  '=' CABINET /
  '=' PASSWORD /
```

```
  '=' CALENDAR-ISN /
  '=' START-DATE
  '=' START-TIME /
  '=' END-DATE
  '=' END-TIME /
  '=' SEPARATE-DAILY-ENTRIES /
  '=' RETURN-STATUS(1:3) /
  '  Found Periods: Date       From       To    Attendee' /
  '               '   FOUND-START-DATE(1) ' '   FOUND-START-TIME(1)
  ' '                  FOUND-END-TIME  (1) ' '   FOUND-ATTENDEES    (1) /
  '               '   FOUND-START-DATE(2) ' '   FOUND-START-TIME(2)
  ' '                  FOUND-END-TIME  (2) ' '   FOUND-ATTENDEES    (2) /
  '               '   FOUND-START-DATE(3) ' '   FOUND-START-TIME(3)
  ' '                  FOUND-END-TIME  (3) ' '   FOUND-ATTENDEES    (3) /
  '               '   FOUND-START-DATE(4) ' '   FOUND-START-TIME(4)
  ' '                  FOUND-END-TIME  (4) ' '   FOUND-ATTENDEES    (4) /
  '               '   FOUND-START-DATE(5) ' '   FOUND-START-TIME(5)
  ' '                  FOUND-END-TIME  (5) ' '   FOUND-ATTENDEES    (5) /
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-STIME5

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Return a list of time ranges in which all or most of the specified attendees and/or cabinets are available.

This subprogram is the same as Z-STIME with the exception that it uses time slices consisting of 5 minutes (not full quarters of an hour) and that the Work-parameter has a different format.

This subprogram can be used, for example, in the following situations:

- **Situation: Basic meeting information and addressees have not been specified.**
  Before calling Z-ADD06 (add the basic information of a meeting) and Z-ADDATT (add attendees and resources to a meeting), run this subprogram with parameter Attendee-ISN. Specifying the parameter Calendar-ISN only makes sense when basic meeting information and addressees have already been added (see below).

- **Situation: Basic meeting information and addressees have been added, but the invitations have not been sent (meeting is pending). You want to search the cabinets of either current attendees or newly added attendees for free time.**
  To search the cabinets of the current attendees for free time, specify parameter Calendar-ISN without Attendee-ISN. The first 50 attendees are checked for free time and the ISNs of all checked attendees are returned.

  To search the cabinets of newly added attendees for free time, specify parameter Attendee-ISNs without Calendar-ISN.

- **Situation: Invitations for a meeting (version *n*) have been sent. You need to modify the basic meeting information or add new attendees (the version number for the meeting will be increased by one).**
  To search the cabinets of the current attendees for free time after modifying the basic meeting information, specify parameter Calendar-ISN without parameter Attendee-ISN. The cabinets of the first 50 previously invited attendees are searched for free time. The time range occupied by the previous version is viewed as free time. The ISNs of the checked attendees are returned.

  To search the cabinets of the newly added attendees for free time, specify parameter Attendee-ISNs without Calendar-ISN.

Up to 24 hours can be specified in the parameters Search-for-hours and Search-for-minutes.

The search period is always set to time slices consisting of 5 minutes. Example: when you specify the time range 1:14 to 2:37, this is automatically set to 1:15 to 2:35.

The values specified in the parameters Search-for-hours and Search-for-minutes are also set to time slices consisting of 5 minutes. Example: when you specify 38 minutes, this is automatically set to 40 minutes.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided.

The date range must be less than or equal to 90 days.

If the parameter Separate-daily-entries is specified, the meeting occupies only the specified time range for each day. If the parameter Separate-daily-entries is not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.

All time parameters are interpreted as GMT (0). Therefore, when changing the suggested time ranges into a user time format, it is possible that a continuous time range is split into two days.

Using the parameter Number-of attendees, the array of Attendee-ISNs can be limited.

Each Attendee-ISN is checked and returned in the parameter Return-status.

Found free time is returned in the Free-time-array. This may include up to 20 time ranges. The parameter Found-attendees indicates the number of attendees for which free time was found. If no free time was found for some of the attendees, the Free-time-array provides the 20 best suggestions (in this case, no iterative calls are required).

This subprogram may be invoked iteratively until the return code is 77.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the meeting to be added or modified.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R/O		Required, if Attendee-ISN is not specified. The ISN of the meeting for which the time range is to be changed. If Attendee-ISN is not specified, the first 50 attendees are checked for free time. The time occupied by the previous version of this meeting is viewed as free time.
Start-date	A8	R		The starting date of the meeting. Format yyyymmdd.
Start-time	A4	O		The starting time of the meeting. Format hhmm.
End-date	A8	O		The ending date of the meeting. Format yyyymmdd.
End-time	A4	O		The ending time of the meeting. Format hhmm.
Separate-daily-entries	A1	O		If marked, the meeting occupies only the specified time range for each day. If not marked, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.
Search-for-hours	N2	R		Search for free time: the number of hours.
Search-for-minutes	N2	R		Search for free time: the number of minutes.
Number-of-attendees	I1	R		The number of attendees in whose calendar you want to search for free time. Default and maximum: 50.
Attendee-ISN	P10/1:50	R/O	X	Required, if Calendar-ISN is not specified. The ISN of each attendee's cabinet that is to be searched for free time. For an attendee (object number 1), use the ISN that you have previously returned by one of the Z-GET01 subprograms. For a cabinet (object number 5), use the ISN that you have previously returned by Z-DIS05. Output: If Calendar-ISN is specified without Attendee-ISN, the ISNs of checked attendees are returned.
Return-status	I1/1:50		X	Return status about free time corresponding to the Attendee-ISNs returned. 00=address accepted, 01= address rejected, 04=Attendee-ISN not found, 33=Attendee not unique.
Free-time-array (20)				
Found-start-date	A8		X	Start date of found free time.
Found-start-time	A4		X	Start time of found free time.
Found-end-time	A4		X	End time of found free time.

Parameter	Format	In	Out	Remarks
Found-attendees	I1		X	The number of attendees for which free time was found.
Work-parameter	B1/1:1214			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
18	API context buffer not available
24	Security violation
33	Attendee not unique.
39	Time range too small for search
40	Date range is negative or more than 90 days
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
49	Invalid value for Search-for-hours/Search-for-minutes
50	Value for Search-for-hours/Search-for-minutes is greater than specified time range
77	End of list
96	No free time found

Subprograms

Z-061625
Z-061635
Z-120
Z-122
Z-123
Z-165
Z-175
Z-120&0

Example

```
DEFINE DATA
LOCAL
*
1 RETURN-CODE            (N2)
1 CABINET                (A8)
1 PASSWORD               (A8)
1 CALENDAR-ISN           (P10)
1 START-DATE             (A8)
1 START-TIME             (A4)
1 END-DATE               (A8)
1 END-TIME               (A4)
1 SEPARATE-DAILY-ENTRIES (A1)
1 SEARCH-FOR-HOURS       (N2)
1 SEARCH-FOR-MINUTES     (N2)
1 NUMBER-OF-ATTENDEES    (I1)
1 ATTENDEE-ISN           (P10/1:50)
1 RETURN-STATUS          (I1/1:50)
1 FREE-TIME-ARRAY        (20)
  2 FOUND-START-DATE     (A8)
  2 FOUND-START-TIME     (A4)
  2 FOUND-END-TIME       (A4)
  2 FOUND-ATTENDEES      (I1)
1 WORK-PARAMETER         (B1/1:1214)
END-DEFINE
*
MOVE 'Cabinet'  TO CABINET
MOVE 'Password' TO PASSWORD
* MOVE 117412   TO CALENDAR-ISN /* do not consider previous version!
MOVE '20010505' TO START-DATE
MOVE '1900'     TO START-TIME
MOVE '20010508' TO END-DATE
MOVE '2100'     TO END-TIME
MOVE 'X'        TO SEPARATE-DAILY-ENTRIES
MOVE 2          TO SEARCH-FOR-HOURS
MOVE 00         TO SEARCH-FOR-MINUTES
MOVE 2          TO NUMBER-OF-ATTENDEES
MOVE 29300      TO ATTENDEE-ISN (1)
MOVE 2191       TO ATTENDEE-ISN (2)
*
CALLNAT 'Z-STIME5'
  RETURN-CODE
  CABINET
  PASSWORD
  CALENDAR-ISN
  START-DATE
```

```
  START-TIME
  END-DATE
  END-TIME
  SEPARATE-DAILY-ENTRIES
  SEARCH-FOR-HOURS
  SEARCH-FOR-MINUTES
  NUMBER-OF-ATTENDEES
  ATTENDEE-ISN(*)
  RETURN-STATUS(*)
  FREE-TIME-ARRAY (*)
  WORK-PARAMETER  (*)
*
WRITE
  '=' CABINET /
  '=' PASSWORD /
  '=' CALENDAR-ISN /
  '=' START-DATE
  '=' START-TIME /
  '=' END-DATE
  '=' END-TIME /
  '=' SEPARATE-DAILY-ENTRIES /
  '=' RETURN-STATUS(1:3) /
  '  Found Periods: Date       From       To    Attendee' /
  '               '   FOUND-START-DATE(1) ' '   FOUND-START-TIME(1)
  ' '                  FOUND-END-TIME  (1) ' '   FOUND-ATTENDEES    (1) /
  '               '   FOUND-START-DATE(2) ' '   FOUND-START-TIME(2)
  ' '                  FOUND-END-TIME  (2) ' '   FOUND-ATTENDEES    (2) /
  '               '   FOUND-START-DATE(3) ' '   FOUND-START-TIME(3)
  ' '                  FOUND-END-TIME  (3) ' '   FOUND-ATTENDEES    (3) /
  '               '   FOUND-START-DATE(4) ' '   FOUND-START-TIME(4)
  ' '                  FOUND-END-TIME  (4) ' '   FOUND-ATTENDEES    (4) /
  '               '   FOUND-START-DATE(5) ' '   FOUND-START-TIME(5)
  ' '                  FOUND-END-TIME  (5) ' '   FOUND-ATTENDEES    (5) /
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-TRACNF

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Translate an RFT document (revisable form text DCA).

The document format of the resulting document is Cnf. Error messages, warnings and information are inserted as comments into the Cnf document.

You cannot translate an RFT document which is currently stored in the Inbasket or Outbasket. A document in the Wastebasket, folder Work or any user-defined folder can be translated.

When the document to be translated is stored in the Wastebasket, you must specify the parameter DCA-ISN (specifying the parameter DCA-document-name results in the return code 53).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the RFT document is stored.
Password	A8	R		The password of the above cabinet.
DCA-document-name	A32	R*		The name of the RFT document to be translated. Either DCA-document-name or DCA-ISN, not both. Must not be specified when the document to be translated is stored in the Wastebasket.
DCA-ISN	P8	R*		The ISN of the RFT document to be translated. Either DCA-ISN or DCA-document-name, not both.
New-folder	A15	O		The folder in which the Cnf document is to be stored. You must not specify a system folder (except Work) or TRS folder. Default: Work.
New-file	A15	O		The name of a file within the above folder in which the Cnf document is to be stored.
New-document-name	A32	R		The name for the Cnf document.
New-ISN	P8		X	The ISN of the Cnf document.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords for the Cnf document. A keyword must not contain an asterisk (*).
Symbol-set	A8	O		Must be one of those defined in the CONDTR1 table during installation. By default these are: U.S.ENGL, DEUTSCH, FRANCAIS, DANSK, ESPANOL, BRAZIL, ITALIANO. If a Symbol-set is not defined, U.S.ENGL is used.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
07	DCA feature not implemented
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder (to file new documents into)
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
64	An error has occurred while converting to/from DCA - check end of text
67	Document not in DCA format
69	Translated document too large
90	Invalid symbol set
91	Translate function is not available in Inbasket or Outbasket

Subprograms

Z-120
Z-122
Z-123
Z-125
Z-135
Z-150
Z-175
Z-190
Z-1200&0

Z-TRADCA

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Translate a Cnf document.

The document format of the resulting document is RFT (revisable form text DCA). Error messages produced by Con-form are suppressed.

You cannot translate a Cnf document which is currently stored in the Inbasket or Outbasket. A document in the Wastebasket, folder Work or any user-defined folder can be translated.

When the document to be translated is stored in the Wastebasket, you must specify the parameter Cnf-ISN (specifying the parameter Cnf-document-name results in the return code 53).

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the Cnf document is stored.
Password	A8	R		The password of the above cabinet.
Cnf-document-name	A32	R*		The name of the Cnf document to be translated. Either Cnf-document-name or Cnf-ISN, not both. Must not be specified when the document to be translated is stored in the Wastebasket.
Cnf-ISN	P8	R*		The ISN of the Cnf document to be translated. Either Cnf-ISN or Cnf-document-name, not both.
New-folder	A15	O		The folder in which the RFT document is to be stored. You must not specify a system folder (except Work) or TRS folder. Default: Work.
New-file	A15	O		The name of a file within the above folder in which the RFT document is to be stored.
New-document-name	A32	R		The name for the RFT document.
New-ISN	P8		X	The ISN of the RFT document.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords for the RFT document. A keyword must not contain an asterisk (*).
Symbol-set	A8	O		Must be one of those defined in the CONDTR1 table during installation. By default these are: U.S.ENGL, DEUTSCH, FRANCAIS, DANSK, ESPANOL, BRAZIL, ITALIANO. If a Symbol-set is not defined, U.S.ENGL is used.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
07	DCA feature not implemented
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder (to file new documents into)
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
59	Requested procedure not found
65	This is not a Con-form document
90	Invalid symbol set
91	Translate function is not available in Inbasket or Outbasket

Subprograms

Z-120
Z-122
Z-123
Z-125
Z-150
Z-163
Z-168
Z-172
Z-175
Z-190
Z-1200&0

Z-TRAINT

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Translate a Cnf document.

The document format of the resulting document is Int (intermediate). Error messages produced by Con-form are suppressed.

You cannot translate a Cnf document which is currently stored in the Inbasket or Outbasket. A document in the Wastebasket, folder Work or any user-defined folder can be translated.

When the document to be translated is stored in the Wastebasket, you must specify the parameter Cnf-ISN (specifying the parameter Cnf-document-name results in the return code 53).

Note:
In previous versions of Con-nect the default value for the left margin was set to 5. As of Con-nect version 3.3.2, the value for the left margin is taken from the user profile.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the Cnf document is stored.
Password	A8	R		The password of the above cabinet.
Cnf-document-name	A32	R*		The name of the Cnf document to be translated. Either Cnf-document-name or Cnf-ISN, not both. Must not be specified when the document to be translated is stored in the Wastebasket.
Cnf-ISN	P8	R*		The ISN of the Cnf document to be translated. Either Cnf-ISN or Cnf-document-name, not both.
New-document-name	A32	R		The name for the Int document.
New-folder	A15	O		The folder in which the Int document is to be stored. You must not specify a system folder (except Work) or TRS folder. Default: Work.
New-file	A15	O		The name of a file within the above folder in which the Int document is to be stored.
Formatting-profile	A32	O		The name of a formatting profile. If blank, a formatting profile is not used.
System-variables	A1	O		If marked, the system variables are replaced with the appropriate values.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords for the Int document. A keyword must not contain an asterisk (*).
New-ISN	P8		X	The ISN of the Int document.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
07	DCA feature not implemented
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder (to file new documents into)
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
65	This is not a Con-form document
81	Invalid formatting profile name
82	Requested formatting profile does not exist
87	System address record for system variables not found
91	Supply Cnf-document-name or Cnf-ISN
92	No cabinet profile found for specified cabinet
93	Translate function is not available in Inbasket or Outbasket

Subprograms

Z-105
Z-120
Z-122
Z-123
Z-125
Z-150
Z-175
Z-190
Z-1200&0

Example

```
0010 DEFINE DATA
0020 LOCAL
0030 1 RETURN-CODE        (N2)
0040 1 CABINET            (A8)
0050 1 PASSWORD           (A8)
0060 1 CNF-DOCUMENT-NAME  (A32)
0070 1 CNF-ISN            (P8)
0080 1 NEW-DOCUMENT-NAME  (A32)
0090 1 NEW-FOLDER         (A15)
0100 1 NEW-FILE           (A15)
0110 1 FORMATTING-PROFILE (A32)
0120 1 SYSTEM-VARIABLES   (A1)
0130 1 KEYWORDS           (A15/1:6)
0140 1 NEW-ISN            (P8)
0150 END-DEFINE
0160 *
0170 RESET RETURN-CODE
0180 MOVE 'CABINET'   TO CABINET
0190 MOVE 'PASSWORD'  TO PASSWORD
0200 MOVE 'DOCNAME'   TO CNF-DOCUMENT-NAME
0210 MOVE 'FOLDER'    TO NEW-FOLDER
0220 MOVE 'FILE'      TO NEW-FILE
0230 MOVE 'NEW-NAME'  TO NEW-DOCUMENT-NAME
0240 MOVE 'KEYWORD1'  TO KEYWORDS (1)
0250 MOVE 'FRPROFILE' TO FORMATTING-PROFILE
0260 MOVE 'X'         TO SYSTEM-VARIABLES
0270 *
0280 CALLNAT 'Z-TRAINT'
0290     RETURN-CODE
0300     CABINET
0310     PASSWORD
0320     CNF-DOCUMENT-NAME
0330     CNF-ISN
0340     NEW-DOCUMENT-NAME
0350     NEW-FOLDER
0360     NEW-FILE
0370     FORMATTING-PROFILE
0380     SYSTEM-VARIABLES
0390     KEYWORDS(*)
0400     NEW-ISN
0410 *
0420 IF RETURN-CODE = 0
0430   WRITE 'Document was translated'
0440 ELSE
0450   WRITE 'Return code' RETURN-CODE
0460 END-IF
0470 *
0480 END
```

Z-TRS11

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

File a document into a TRS folder and invert the document. You can also move a document from one TRS folder to another TRS folder.

You can only use this subprogram if Con-nect Text Retrieval is installed.

Prior to the first call to Z-TRS11, you must invoke Z-TRSOP to open the TRS buffer. After to the last call to Z-TRS11, you must invoke Z-TRSCL to close the TRS buffer.

If you want to rename the document without filing it into another folder or file, you must specify the previously defined folder and file names in the parameters TRS-folder-name and TRS-file-name, and you must specify the new document name in the parameter New-document-name.

When you file a document which is currently stored in the Inbasket file New, the corresponding address list is updated so that the reception status of the document indicates that it has been read.

The document is inverted online unless it is longer than the length permitted by the administrator. If it is, the document is automatically filed in folder TRS-XXL and inverted when the utility B10000 is run (see the *Con-nect Utilities* documentation for further information).

If Con-nect Text Retrieval cannot be invoked (return code 06), the TRS error number is returned in the parameter TRS-return-code.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is to be filed.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document to be filed. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document to be filed. Either ISN or Document-name, not both. You can invoke Z-DIS11 prior to this subprogram to obtain the ISN for the desired document.
TRS-folder-name	A15	R		The name of the TRS folder in which the document is to be stored.
TRS-file-name	A15	O		The name of a file within the above TRS folder in which the document is to be stored.
New-document-name	A32	O		If specified, the document is filed with a new name.
Keywords	A15/1:6	O		Keywords are helpful when you search for an object. You can specify up to 6 keywords. A keyword must not contain an asterisk (*). When you specify at least one new keyword, all previously defined keywords are deleted. Thus, to retain the previously defined keywords you must specify them once more.
TRS-return-code	N4		X	When this subprogram has been terminated successfully, the value 0 is returned. Any other value indicates an internal error.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
06	TRS could not be invoked
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
52	Document with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
66	Requested folder is not a TRS folder
90	Document too long to be inverted online - folder TRS-XXL is missing
91	Document too long to be inverted online - it has been filed in folder TRS-XXL

Subprograms

Z-120
Z-122
Z-123
Z-150
Z-161
Z-161A
Z-161B
Z-165
Z-175
Z-177
Z-194
Z-197
Z-222
Z-223
Z-400
Z-401
Z-1200&0

Z-TRSCL

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Close the TRS buffer.

This subprogram is intended to be used with Z-TRS11 and must be invoked after the last call to Z-TRS11. You can only use this subprogram if Con-nect Text Retrieval is installed.

If Con-nect Text Retrieval cannot be invoked (return code 06), the TRS error number is returned in the parameter TRS-return-code.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
TRS-return-code	N4		X	When this subprogram has been terminated successfully, the value 0 is returned. Any other value indicates an internal error.

Return Codes

00	Success
06	TRS could not be invoked

Subprograms

None

Z-TRSOP

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Open the TRS buffer.

This subprogram is intended to be used with Z-TRS11 and must be invoked prior to the first call to Z-TRS11. You can only use this subprogram if Con-nect Text Retrieval is installed.

If Con-nect Text Retrieval cannot be invoked (return code 06), the TRS error number is returned in the parameter TRS-return-code.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2		X	
TRS-return-code	N4		X	When this subprogram has been terminated successfully, the value 0 is returned. Any other value indicates an internal error.

Return Codes

00	Success
06	TRS could not be invoked

Subprograms

Z-284

Z-UNDO

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms
- Example

Description

Undo addressees of a mail item, including invitations to a meeting.

If none of the addressees has read the mail item, you can undo the whole mail item. In this case, it is not required to specify the parameter Address-index.

If the mail item has already been read by one of the addressees, you can only remove an addressee who has not yet read the mail item. In this case, you have to specify the addressee to be undone in the parameter Address-index. For example, to undo the 7th addressee, specify "7" in the parameter Address-index.

If you want to undo mail to all addressees who have not yet read the mail item, specify "-1" in the parameter Address-index.

You cannot undo the whole mail item, if it has been sent to an external addressee (e.g. SNADS).

When repeated delivery has been specified for a mail item, an X is returned in the parameter Repeated-delivery. This means that the counter for repeated delivery has been reset to zero. The addressees, however, have not yet been undone. In this case, you have to invoke Z-UNDO once more to undo the addressees.

When the sent mail item has not been undone completely (i.e. if there are still addressees who have received the mail item), an X is returned in the parameter Sent.

The return code 93 indicates that more than 500 Adabas calls were made and some addressees could not be undone. In this case, the user should execute any program providing screen input/output to prevent the NAT3009 error in online mode.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the mail item or invitation is to be undone.
Password	A8	R		The password of the above cabinet.
ISN	P10	R	X	Input: ISN of the mail item or invitation to be undone. Output: ISN of the mail item or invitation that has been undone.
Address-index	P7	O		Do not specify this parameter, if you want to undo the whole mail item. To undo only the *n*th addressee, specify "*n*". This value can be obtained with Z-ALISTM. If you want to undo mail to all addressees who have not yet read the mail item, specify "-1".
Repeated-delivery	A1		X	X indicates that repeated delivery has been reset to zero.
Sent	A1		X	X indicates that the mail item has not been undone completely.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
18	API context buffer not available
24	Security violation
90	No address list or mailed item found
91	Mail item cannot be undone since it has been already been read, or it has been sent to an external addressee
92	No addressee exists for specified Address-index
93	Some addressees have not been undone
94	Only the last version of a meeting can be undone
99	Undo is not valid for this item

Subprograms

Z-0420
Z-0420A
Z-100
Z-110
Z-120
Z-122
Z-123
Z-124
Z-165
Z-175
Z-180
Z-190
Z-194
Z-197
Z-209
Z-216
Z-222
Z-223
Z-400
Z-401
Z-711
Z-711A
Z-728
Z-729
Z-734
Z-735
Z-736
Z-737
Z-1200&0

Example

```
* Undo addressees
*
DEFINE DATA
LOCAL
*
1 RETURN-CODE       (N2)
1 CABINET           (A8)
1 PASSWORD          (A8)
1 ISN               (P10)
1 ADDRESS-INDEX     (P7)
1 REPEATED-DELIVERY (A1)
1 SENT              (A1)
*
END-DEFINE
*
MOVE 'Cabinet'  TO CABINET
MOVE 'Password' TO PASSWORD
MOVE 70680      TO ISN
MOVE 2          TO ADDRESS-INDEX
*
CALLNAT 'Z-UNDO'
  RETURN-CODE
  CABINET
  PASSWORD
  ISN
  ADDRESS-INDEX
  REPEATED-DELIVERY
  SENT
*
WRITE
  '=' CABINET  /
  '=' PASSWORD /
  '=' ISN      /
*
IF SENT NE ' '
  WRITE '   Sent (undone) addressees still exist!' SENT /
END-IF
*
IF REPEATED-DELIVERY NE ' '
  WRITE '   Only repeated delivery undone' REPEATED-DELIVERY /
END-IF
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```

Z-VARSYM

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return a list of all variables appearing in a document text. You can only access Txt and Cnf documents.

Variables returned in the Variable-table are not duplicated with each call. For example, if the part of the text which is currently being processed contains &HELLO twice, only one HELLO is returned. However, when this subprogram is called iteratively, and if &HELLO appears again in the text, it is returned in the new Variable-table.

Con-form system variables are not returned.

Note:
In the document text, the characters after the variable character (default: &) must be alphanumeric (the underscore character (_) can also be used), otherwise the variable is not returned in the Variable-table. Thus, Con-form system variables (e.g. &$PN) are not returned.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is stored.
Password	A8	R		The password of the above cabinet.
Variable-character	A1	O		The character which precedes a variable in the document text. Default: &.
Document-name	A32	R*		The name of the document which contains the variables. Either Document-name or ISN, not both.
ISN	P8	R*		The ISN of the document which contains the variables. Either ISN or Document-name, not both.
Start-value	A32	O		The name of a variable. If specified, this subprogram returns variables starting with the first occurrence of the Start-value. If a start value is not specified, this subprogram starts at the beginning of the document text.
Number	N2	O		The maximum number of elements that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Variable-table	A32/1:20		X	The variable list.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
77	End of document
78	This is not a text document

Subprograms

Z-120
Z-122
Z-123
Z-210
Z-1200&0

Z-VARX

This chapter covers the following topics:

- Description
- Parameters
- Return Codes
- Subprograms

Description

Return a list of all variables appearing in a document text. You can only access Txt and Cnf documents.

This subprogram can be called iteratively. The Work-parameter contains the position in the text at which this subprogram has stopped the last time it has been called.

The Duplicate-suppression parameter determines the following (the value must be alphanumeric):

- When you do not specify a value, or when you specify any value other than 1 or 2: After each iterative call, this subprogram checks the whole text so that no duplicate variables will be returned at all. The sequence of the variables returned may deviate from their sequence within the text. If the text is too large and if there are too many duplicate variables, this can cause too many Adabas calls.
- When you specify the value 1: Variables returned in the Variable-table are not duplicated with each call. For example, if the part of the text which is currently being processed contains &HELLO twice, only one HELLO is returned. However, when this subprogram is called iteratively, and if &HELLO appears again in the text, it will be returned in the new Variable-table.
- When you specify the value 2: This subprogram does not check the text. Each variable will be returned. Thus, &HELLO may appear several times within the same Variable-table.

Con-form system variables are not returned.

Note:
In the document text, the characters after the variable character (default: &) must be alphanumeric (the underscore character (_) can also be used), otherwise the variable is not returned in the Variable-table. Thus, Con-form system variables (e.g. &$PN) are not returned.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet in which the document is stored.
Password	A8	R		The password of the above cabinet.
Document-name	A32	R*		The name of the document which contains the variables. Either Document-name or ISN, not both.
ISN	P10	R*		The ISN of the document which contains the variables. Either ISN or Document-name, not both.
Variable-character	A1	O		The character which precedes a variable in the document text. Default: &.
No-system-variables	L	O		If set to true, Con-nect system variables are not returned. Default: false.
Duplicate-suppression	A1	O		See description above.
Number	N2	O		The maximum number of elements that are returned with each call. When you do not specify a value, or when you specify a value greater than 20, the default value 20 is used.
Variable-table	A32/1:20		X	The variable list.
Work-parameter	A18			For internal use. See **The Work Parameter**.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
08	Supply either ISN or name, not both
09	ISN does not point to correct object
51	Invalid name
53	Requested object does not exist
77	End of document
78	This is not a text document

Subprograms

Z-120
Z-122
Z-123
Z-143
Z-1200&0

Return Codes

This section provides a list of all possible return codes.

- General
- Mail
- Calendar
- Object Handling
- Printing
- Individual Return Codes

General

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
05	TID/LU device is not a personal computer
06	TRS could not be invoked
07	DCA feature not implemented
08	Supply either ISN or name, not both
09	ISN does not point to correct object
10	Function not valid for a system folder
11	Supply folder/file name or number, not both
12	No system folder record present
13	Invalid object number
14	Con-form is not available
15	Invalid administrator status
16	Document is locked - editing was not completed
18	API context buffer not available

Mail

21	Addressee not found
22	Can’t create spool file entry
23	Sender cabinet ID not found
24	Security violation
25	More addressees than allowed for sender’s cabinet
26	Document-name was not found in sender’s cabinet
27	Cover note is required
28	Subject is required
29	Cover note could not be saved
30	Distribution list name invalid
31	No members found
32	Member (address) could not be found
33	Addressee not unique
34	Address type not found

Calendar

39	Time range too small for search
40	Date range is negative or more than 90 days
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
45	No appointments found (not an error)
46	Requested appointment not found, or there is no appointment
47	Invalid timezone (range -12 to +11)
49	Invalid value for Search-for-hours/Search-for-minutes
50	Value for Search-for-hours/Search-for-minutes is greater than specified time range

Object Handling

51	Invalid name
52	Object with specified name already exists
53	Requested object does not exist
54	At least one keyword was invalid
55	Requested folder/file does not exist
56	Requested folder is a TRS folder
57	Document contains no text
58	No directory record has been created
59	Requested procedure not found
60	Edit area is empty
61	Invalid security code(s)
62	Invalid date format
63	Document already marked for archiving
64	An error has occurred while converting to/from DCA - check end of text
65	This is not a Con-form document
66	Requested folder is not a TRS folder
67	Document not in DCA format
68	Object is not a user-defined object
69	Translated document too large
70	The security levels must be numeric
71	Invalid pre-formatting procedure name
72	Invalid post-formatting procedure name
73	Invalid folder/file name
74	Folder/file already exists
75	Too many folders/files in this cabinet (<65535)
76	Sequence number for folder invalid, set to 1
77	End of list
78	This is not a text document
79	Document format invalid

Printing

80	Document is not correctly structured
81	Invalid formatting profile name
82	Requested formatting profile does not exist
83	Invalid printer profile name
84	Requested printer profile does not exist
85	Compiled version of printer profile not found
86	Printer driver module cannot be loaded
87	System address record for system variables not found
88	Document is not in correct format for printing
89	No printer TID/LU supplied

Individual Return Codes

The return codes 90 to 99 are used in several API subprograms and are defined individually in each API subprogram. See the return code list of the appropriate subprogram for further information.

Numbers

Several API subprograms require that you specify, for example, an object number or an address type.

This chapter covers the following topics:

- Object Numbers
- Document Formats
- Address Types
- Cabinet Types
- Folder Numbers
- File Numbers

Object Numbers

Con-nect

The names of the Con-nect objects and their numbers are listed below.

1	Address
2	Application
3	Appointment
4	Bulletin
5	Cabinet
6	Calendar
8	Command
9	Day
10	Distribution
11	Document
13	Folder
14	Form
16	Meeting
17	Member
18	Menu
19	Month
20	Notepad

21	Object
22	Pfkey
23	Printer
24	Procedure
25	Profile
26	Program
27	Reference
28	Reminder
29	Resource
33	User
35	Week
37	Year
38	File
39	Name
43	Todo

The numbers for user-defined objects are 80 to 99.

Con-nect Text Retrieval

The names of the Con-nect Text Retrieval objects and their numbers are listed below.

7	Category
30	Root
32	Synonym
36	Word
42	Results
44	Query

Document Formats

The Con-nect document formats and their numbers are listed below:

0	Txt
1	Cnf
2	Bin
3	Int
4	RFT
5	Printer profile
6	Src
7	FFT
8	Obj
9	Vce

For detailed information regarding the different document formats, see the *Con-nect User's Guide*, section **Translating Documents**.

Address Types

The Con-nect address types and their numbers are listed below:

1	Address (nickname)
4	Bulletin board
5	Cabinet (shared, public, standalone)
10	Distribution list
17	Member of distribution list
29	Resource (for meetings)
33	User ID (private cabinet)
70	Name (last name)
74	External address

Cabinet Types

The Con-nect cabinet types and their numbers are listed below:

0	Private cabinet
1	Standalone cabinet
2	Shared cabinet
3	Public cabinet

Folder Numbers

The numbers of the Con-nect system folders are listed below:

1	Inbasket
2	Outbasket
3	Wastebasket
4	Compose
5	Work
6	Connect
7	Repeat-Delivery
8	TRS-XXL

You can use Z-DIS13 to display a list of all folders. This subprogram also returns the numbers of the user-defined folders.

File Numbers

The numbers of the system files of the folder Inbasket are listed below:

1	Phone
2	New
3	Invitations
4	Opened
5	Postponed