

Object Handler - Object Specification

The Object Handler provides the screen Select Unload/Load/Scan Type where you can specify the objects you want to process.

To activate the options provided with the object specification screens described below, mark the corresponding input fields with any single character.

Note:

The notation "see (*)" in the tables in this section regarding the name, date and time parameters refers to the section Name, Date and Time Specification.

Below is information on:

- All Objects
(load and scan only)
 - Natural Library Objects
 - Natural System Error Messages
 - Natural Command Processor Sources
 - Natural-related Objects
 - **DDMs**
 - FDTs
 - Use **Selection** or **List** Workplan
-

All Objects

This function is used to select for processing all objects available in the work file. From the Load/**Scan** All Objects screen, you can invoke the Settings screen where you can specify option and parameter settings. See the section Settings.

Natural Library Objects

This function is used to select Natural library objects for processing. Natural library objects are programming objects and user-defined error messages.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan Natural Library Objects" screen provides the following fields and PF keys:

Field	PF Key	Explanation
DBID/FNR		Unload only. The database ID (DBID) and file number (FNR) of the system file where the Natural libraries to be unloaded reside. If no values (or 0) are specified, the FUSER or FNAT system file is used.
Select DBID/FNR	PF5	Unload only. Displays a selection list of available system files.
Password/Cipher		Unload only. The password and cipher code of the Adabas file where the Natural libraries to be unloaded reside.
Library	PF6	The name of a library or a range: see (*) Name.
Select library	PF4	Displays a selection list of available libraries. See also the section Library Selection.
Object name		The name of a Natural object or a range: see (*) Name. Only evaluated if the parameter Natural Programming Objects (default) is selected in the "Natural Library Objects, Details" screen. See also Natural Library Object Details.
Select objects		Unload only. If no library range is specified, a selection list of available Natural objects is displayed (see also the section Object Selection).
Error number		The range of user-defined error messages delimited by the first and the last message number. Only evaluated if the parameter Error Messages (default) is selected in the "Natural Library Objects, Details" screen. See also Natural Library Object Details.
Details		Invokes the "Natural Library Objects, Details" screen so that you can enter more detailed object specifications. See Natural Library Object Details.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings: see the section Settings.

Below is information on:

- Natural Library Object Details
- Natural Library Object Properties
- Natural Library Object Exceptions
- Natural Library Object Exception Properties

Natural Library Object Details

This function is used to specify further selection criteria for the processing of Natural library objects.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan Natural Library Objects, Details" screen provides the following fields and PF keys:

Field	PF Key	Explanation
Library		The name of a library or a range: see (*) Name.
Select Library	PF4	Displays a selection list of available libraries. See also the section Library Selection.
DBID/FNR	PF5	See DBID/FNR in Natural Library Objects above.
Passw./Ciph.		Unload only. The password and cipher code of the Adabas file where the Natural libraries to be unloaded reside.
Object Types: Natural programming objects		Natural programming objects.
Object Types: Error messages		User-defined Natural error messages.
Object name		See Object Name in Natural Library Objects above.
Programming Object Options: S/C-Kind		Kinds of Natural programming object: S Source objects only. C Cataloged objects only. A All saved and/or cataloged objects. This is the default. * W All stowed objects: source and cataloged objects with identical date and time. B Both source and cataloged objects if both exist. Note: W (stowed) and B (both) are valid for the unload function only. Though W and B can also be entered for the load or scan function, they are treated like A (all objects).
Programming Object Options: Natural types		Types of Natural programming object: Up to 15 valid external Natural object types, such as P for program. An asterisk (*) selects all types of Natural programming object (this is the default).
Select Natural types	PF6	Invokes a selection window where you can specify the type of Natural programming object.
Properties	PF7	Invokes an extra screen where you can specify additional properties of Natural programming objects: see Natural Library Object Properties.
Error Messages: Error number		See Error Number in Natural Library Objects above.
Error Messages: Language codes		Language code(s) of the error messages: Up to 8 valid Natural language codes. An asterisk (*) selects all Natural language codes.

Field	PF Key	Explanation
Error Messages: S/L-Kind		Kind of error message text: S Short text of error message. L Long text. A All short and/or long texts. This is the default. B Short and long text if both exist. (unload only)
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to the selection of Natural programming objects: see Natural Library Object Exceptions.

Natural Library Object Properties

This function is used to specify additional properties for the Natural library objects selected for processing.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan Library Objects, Properties" window provides the following fields:

Field	Explanation
User ID	The ID of the user who saved or cataloged a Natural programming object. Specify a single user ID or a range: see (*) Name.
Programming mode	Type of programming mode of the Natural programming objects: R Report mode only. S Structured mode only. A Any mode, structured and/or report. This is the default.
Natural version	Natural version of the Natural programming objects. Valid version format: <i>VRSM</i> where <i>V</i> is the 1-digit version, <i>R</i> the 1-digit release, and <i>SM</i> the 2-digit system maintenance level. Ranges are allowed: see (*) Name.
Object Date: Select all objects (no date check)	Performs no check for the object date.
Object Date: Select objects modified between/and	All objects with a save or catalog date and/or time within the range specified in these fields by entering a precise start date and/or time and/or an end date and/or time. Special dates allowed are: TODAY, YESTERDAY, MONTH, YEAR. See also: (*) Date. The time must be specified in the format <i>HH:II:SS</i> (<i>HH</i> = hours, <i>II</i> = minutes, <i>SS</i> = seconds).
Object Date: Select objects modified on	All objects with a save or catalog date and/or time that fits the date/time specified in these fields by entering a precise date and/or time. Special dates allowed are: TODAY and YESTERDAY. See also: (*) Date. Valid time format: <i>HH:II:SS</i> (<i>HH</i> = hours, <i>II</i> = minutes, <i>SS</i> = seconds).
Object Size: Select all objects (no size check)	Performs no check for the object size.
Object Size: Select objects with size between/and	All objects with a size within the range specified in these fields by entering a start size and/or an end size.
Object Size: Select objects with size	All objects with a size that fits the size specified in this field.

Natural Library Object Exceptions

This function is used to specify exceptions to the selection of Natural library objects.

All objects that match the selection criteria defined in Natural Library Objects, Natural Library Object Details and Natural Library Object Properties are checked against the specifications made in the "Unload/Load/Scan Library Objects, Exceptions" screen. Objects that match **all** specifications defined as exceptions, are exempted from

processing.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan Library Objects, Exceptions" screen is basically identical to the "Unload/Load/Scan Natural Library Objects, Details" screen. See the relevant section for an explanation of the fields, commands and alternative PF keys listed below. The field "Add/change properties for selection" is used to specify additional properties of Natural programming objects exceptions: see Natural Library Object Exception Properties.

Natural Library Object Exception Properties

This function is used to specify exceptions to additional properties of the Natural library objects selected.

The "Unload/Load/Scan Library Objects, Exceptions" screen provides the following fields:

Field	Explanation
User ID	See User ID in Natural Library Object Properties.
Programming mode	See Programming mode in Natural Library Object Properties.
Natural version	See Natural version in Natural Library Object Properties.
DDM DBID	See DDM DBID in Natural Library Object Properties.
DDM FNR	See DDM FNR in Natural Library Object Properties.
Object Date: Ignore object date	Performs no check for the object date.
Object Date: Exclude objects modified between/and	Exempts from processing all objects with a save or catalog date and/or time within the range specified in these fields by entering a precise start date and/or time and/or an end date and/or time. Special dates allowed are: TODAY, YESTERDAY, MONTH, YEAR. See also: (*) Date. The time must be specified in the format <i>HH:II:SS</i> (<i>HH</i> = hours, <i>II</i> = minutes, <i>SS</i> = seconds).
Object Date: Exclude objects modified on	Exempts from processing all objects with a save or catalog date and/or time that fits the date/time specified in these fields by entering a precise date and/or time. Special dates allowed are: TODAY and YESTERDAY. See also: (*) Date. Valid time format: <i>HH:II:SS</i> (<i>HH</i> = hours, <i>II</i> = minutes, <i>SS</i> = seconds).
Object Size: Ignore object size	Performs no check for the object size.
Object Size: Exclude objects with size between/and	Exempts from processing all objects with a size within the range specified in these fields by entering a start size and/or an end size.
Object Size: Exclude objects with size	Exempts from processing all objects with a size that fits the size specified in this field.

Natural System Error Messages

This function is used to select for processing Natural system error messages from the **specified Natural system file**.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan Natural System Error Messages" screen provides the following fields and PF keys:

Field	PF Key	Explanation
Error number from/to		The range of Natural system error messages delimited by the first and the last message number. Select "Select system error messages" for a list of all system error messages available.
Details	PF6	Invokes the "Unload/Load/Scan Natural Library Objects, Details" screen where you can enter more detailed object specifications: see Natural System Error Message Details.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings. See the section Settings.

Below is information on:

- Natural System Error Message Details
- Natural System Error Message Exceptions

Natural System Error Message Details

This function is used to specify further selection criteria for the processing of Natural system error messages.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan System Error Messages, Details" screen provides the following fields and PF keys:

Field	PF Key	Explanation
DBID/FNR		Unload only. The database ID (DBID) and the number of the Adabas (FNR) file where the Natural error messages reside.
Password/Cipher		Unload only. The password and cipher code of the Adabas file where the Natural error messages sources reside.
Error number from/to		See Error number in Natural System Error Messages above.
Language codes		See Language codes in Natural Library Object Details.
S/L-Kind		See S/L-Kind in Natural Library Object Details.
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to the selection of Natural system error messages: see Natural System Error Message Exceptions.

Natural System Error Message Exceptions

This function is used to specify exceptions to the selection of Natural system error messages.

All Natural system error messages that match the selection criteria defined in Natural System Error Messages and Natural System Error Message Details are checked against the specifications made in the "Unload/Load/Scan System Error Messages, Exceptions" screen. Error messages that match **all** specifications defined as exceptions, are exempted from processing.

For an explanation of the fields provided in the exceptions screen, see Natural System Error Message Details above.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

Natural Command Processor Sources

This function is used to select for processing Natural command processor sources.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan Natural Command Processors" screen provides the following fields and PF keys:

Field	PF Key	Explanation
Library		The name of a Natural command processor library or a range: see (*) Name.
DBID/FNR		Unload only. The database ID (DBID) and the number of the Adabas (FNR) file where the Natural command processor sources reside.
Password/Cipher		Unload only. The password and cipher code of the Adabas file where the Natural command processor sources reside.
Select library	PF4	Invokes a selection list of available Natural command processor libraries. See also Library Selection.
Object name		The name of a Natural command processor source or a range: see (*) Name.
Select objects		Unload only. If no library range has been specified and this field is selected, a selection list of available Natural command processor sources is displayed (see also Object Selection).
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to the selection of Natural command processor sources: see Natural Command Processor Source Exceptions.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings. See the section Settings.

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Natural Command Processor Source Exceptions

This function is used to specify exceptions to the selection of Natural command processor sources.

All objects which match the selection criteria defined in Natural Command Processor Sources are checked against the specifications made in the "Unload/Load/Scan Natural Command Processors, Exceptions" screen. Command Processor Sources that match **all** specifications defined as exceptions, are exempted from processing.

For an explanation of the fields provided in the exceptions window, see Natural Command Processor Sources above.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

Natural-related Objects

This function is used to select Natural-related objects for processing. Natural-related objects are profiles, debug environments and DL/I subfiles.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

When you select Natural-related objects from the Unload/Load Type screen, the Select Related Type screen appears where you can specify the type of the Natural-related object: Natural profiles, debug environments or DL/I subfiles.

Below is information on:

- Natural Profiles
- Natural Profile Exceptions
- Natural Debug Environments
- Natural Debug Environment Exceptions
- Natural DL/I Subfiles
- Natural DL/I Subfile Exceptions

Natural Profiles

The "Unload/Load/Scan Natural Profiles" screen provides the following fields and PF keys:

Field	PF Key	Explanation
DBID/FNR Password/Cipher		Unload only. The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the Natural profiles to be unloaded reside. If no values (or 0) are specified, the FNAT system file is used.
Select DBID/FNR	PF5	Unload only. Invokes the Select System File window with a list of all system files available in your Natural environment: see System File Selection.
Profile Types		Selects the type(s) of profile to be processed: Parameter, Editor, Map and/or Device.
Object name		The name of a profile or a range: see (*) Name.
Select Object name		Unload only. Invokes the List Profiles screen with a selection list of available profiles (see also the section Object Selection).
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to the selection of profiles: see Natural Profile Exceptions.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings: see the section Settings.

For a description of keywords and valid values, see also **Select-Clause** in the section **Direct and PROCEDURE Workplan Syntax, Commands**.

Natural Profile Exceptions

This function is used to specify exceptions to the selection of Natural profiles.

All objects that match the selection criteria defined in Natural Profiles are checked against the specifications made in the "Unload/Load/Scan Natural Profiles, Exceptions" screen. Objects that match **all** specifications defined as exceptions, are exempted from processing.

For a description of keywords and valid values, see also **Select-Clause** in the section **Direct and PROCEDURE Workplan Syntax, Commands**.

The "Unload/Load/Scan Natural Profiles, Exceptions" screen provides the following fields:

Field	Explanation
Object name	Exempts from processing the specified object or range of objects: see (*) Name.
Profile Types	Exempts from processing the type(s) of profile selected: Parameter, Editor, Map and/or Device.

Natural Debug Environments

The "Unload/Load/Scan Natural Debug Environments" screen provides the following fields and PF keys:

Field	PF Key	Explanation
DBID/FNR Password/Cipher		Unload only. The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the Natural debug environments to be unloaded reside. If no values (or 0) are specified, the FNAT system file is used.
Library		The name of a library or a range: see (*) Name.
Select library	PF4	Displays a selection list of available libraries. See also the section Library Selection.
Object name		The name of a debug environment or a range: see (*) Name.
Select objects		Unload only. Displays a selection list of available debug environments (see also the section Object Selection).
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to the selection of profiles: see Natural Debug Environment Exceptions.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings: see the section Settings.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

Natural Debug Environment Exceptions

This function is used to specify exceptions to the selection of Natural debug environments.

All objects that match the selection criteria defined in Natural Debug Environments are checked against the specifications made in the "Unload/Load/Scan Debug Environments, Exceptions" screen. Objects that match all specifications defined as exceptions, are exempted from processing.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan Debug Environments, Exceptions" screen provides the following fields:

Field	Explanation
Library	Exempts from processing the specified library or range of libraries: see (*) Name.
Select Library	Exempts from processing the libraries marked on the list of available libraries.
Object name	Exempts from processing the specified object or range of objects: see (*) Name.

Natural DL/I Subfiles

The "Unload/Load/Scan Natural DL/I Subfiles" screen provides the following fields and PF keys:

Field	PF Key	Explanation
DBID/FNR Password/Cipher		Unload only. The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the Natural DL/I subfiles to be unloaded reside. If no values (or 0) are specified, the FDIC system file is used.
Select DBID/FNR	PF5	Unload only. Invokes the Select System File window with a list of all system files available in your Natural environment: see System File Selection .
Subfile Types		Selects the types of DL/I subfile to be processed: NSB and/or NDB.
Object name		The name of a DL/I subfile or a range: see (*) Name .
Select Object name		Unload only. Displays a selection list of available DL/I subfiles (see also the section Object Selection).
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to the selection of profiles: see Natural DL/I Subfile Exceptions .
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings: see the section Settings .

Natural DL/I Subfile Exceptions

This function is used to specify exceptions to the selection of Natural DL/I subfiles.

All objects that match the selection criteria defined in Natural DL/I Subfiles are checked against the specifications made in the "Unload/Load/Scan Natural DL/I Subfiles, Exceptions" screen. Objects that match **all** specifications defined as exceptions, are exempted from processing.

For a description of keywords and valid values, see also **Select-Clause** in the section **Direct and PROCEDURE Workplan Syntax, Commands**.

The "Unload/Load/Scan Natural DL/I Subfiles, Exceptions" screen provides the following fields:

Field	Explanation
Object name	Exempts from processing the specified object or range of objects: see (*) Name .
Subfile Types	Exempts from processing the type(s) of DL/I subfiles selected: NSB and/or NDB.

DDMs

This function is used to select data definition modules (DDMs) for processing.

For a description of keywords and valid values, see also **Select-Clause** in the section **Direct and PROCEDURE Workplan Syntax, Commands**.

The "Unload/Load/Scan DDMs" screen provides the following fields and PF keys:

Field	PF Key	Explanation
FDIC DBID/FNR FDIC Password/Cipher		Unload only. The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the DDMs to be unloaded reside. If no values (or 0) are specified, the FDIC system file is used.
DDM name		Unload only. The name of a DDM or a range: see (*) Name.
Select objects		Unload only. Displays a selection list of available DDMs (see also the section Object Selection).
Properties	PF7	Invokes an extra screen where you can specify additional properties of DDMs: see DDM Properties.
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to DDMs: see DDM Exceptions.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings: see the section Settings.

Below is information on:

- DDM Properties
- DDM Exceptions

DDM Properties

This function is used to specify additional properties for the DDMs selected for processing.

For a description of keywords and valid values, see also **Select-Clause** in the section **Direct and PROCEDURE Workplan Syntax, Commands**.

The "Unload/Load/Scan DDMs, Properties" window provides the following fields:

Field	Explanation
User ID	The ID of the user who saved or cataloged a Natural programming object. Specify a single user ID or a range: see (*) Name.
DDM DBID	The database ID (DBID) of the DDMs. Valid entries are: 1 to 65535 or 0 (all DBIDs)
DDM FNR	The file number (FNR) of the DDMs: Valid entries are: 1 to 65535 or 0 (all FNRs).
Object Date: Select all objects (no date check)	Performs no check for the object date.
Object Date: Select objects modified between/and	See Object Date in Natural Library Object Properties.
Object Date: Select objects modified on	See Object Date in Natural Library Object Properties.
Object Size: Select all objects (no Size check)	Performs no check for the object size.
Object Size: Select objects with size between/and	All objects with a size within the range specified in these fields by entering a start size and/or an end size.
Object Size: Select objects with size	All objects with a size that fits the size specified in this field.

DDM Exceptions

This function is used to specify exceptions to the selection of DDMs.

All objects that match the selection criteria defined in DDMs and DDM Properties are checked against the specifications made in the "Unload/Load/Scan DDM, Exceptions" screen. Objects that match **all** specifications defined as exceptions, are exempted from processing.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan DDMs, Exceptions" screen provides the following fields:

Field	Explanation
DDM name	The name of a DDM or a range: see (*) Name.
DDM DBID	See DDM DBID in DDM Properties.
DDM FNR	See DDM FNR in DDM Properties.
User ID	See User ID in DDM Properties.
Object Date: Ignore object date	Performs no check for the object date.
Object Date: Exclude objects modified between/and	See Object Date in Natural Library Object Exception Properties.
Object Date: Exclude objects modified on	See Object Date in Natural Library Object Exception Properties.
Object Size: Ignore object size	Performs no check for the object size.
Object Size: Exclude objects with size between/and	Exempts from processing all objects with a size within the range specified in these fields by entering a start size and/or an end size.
Object Size: Exclude objects with size	Exempts from processing all objects with a size that fits the size specified in this field.

FDTs

This FDTs function is used to select Adabas FDTs (Field Description Tables) for processing.

For a description of keywords and valid values, see also Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

The "Unload/Load/Scan FDTs" screen provides the following fields and PF keys:

Field	PF Key	Explanation
DBID		The database ID (DBID) of the FDT(s) to be processed. Load and scan: A DBID or 0 for all DBIDs.
FNR		The file number (FNR) of the FDT(s) to be processed. Load and scan: A FNR or 0 for all FDTs.
Password/Cipher		Unload and load only. The Adabas password and the cipher code for the Adabas file of the FDT to be processed.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings. See the section Settings.

Use **Selection** or **List** Workplan

This function is used to define a Workplan of the type SELECTION or LIST which specifies selection criteria for the objects to be processed. See also the section Workplans.

The "Unload/Load/Scan **Selection or List**" screen provides the following fields and PF keys:

Field	PF Key	Explanation
Name	PF4	The name of the Workplan to be processed.
List Workplan		Displays the contents of the Workplan specified in the Name field.
Select Workplan	PF5	Displays a list of available Workplans. See also List Workplan in the section Administration.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings. See the section Settings.