

# Object Handler - Object Specification

The Object Handler provides the screen Select Unload/Load/Scan Type where you can select any of the following types of object for processing:

- All Objects on the Work File  
(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

For each type of object selected, you are provided object-specification screens. These screens are used to specify selection criteria for the objects to be processed. The field and options provided on these screen are explained in this section.

**Note:**

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

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## All Objects on the Work File

This function is used to select all objects available in the work file for processing. 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 Direct and PROCEDURE Workplan Syntax in the section Commands.

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

Field	PF Key	Explanation
DBID/FNR		Only applies to the unload function.  The database ID (DBID) and file number (FNR) of the system file where the Natural libraries are stored. If no values (or <b>0</b> ) are specified, the current FUSER or FNAT system file is used.
Select DBID/FNR	PF5	Only applies to the unload function.  Displays a selection list of system files available.
Password/Cipher		Only applies to the unload function.  The password and cipher code of the Adabas file where the Natural libraries are stored.
Library	PF6	The name of a library or a range of names: see (*) Name.
Select library	PF4	Displays a selection list of all libraries available. See also the section Library Selection.
Object name		The name of a Natural programming object or a range of names: see (*) Name.  Only evaluated if the parameter Natural programming objects (default) is selected on the screen Natural Library Objects, Details. See also Natural Library Object Details.
Select objects		Only applies to the unload function.  If no library range is specified, a selection list of all Natural objects available is displayed (see also the section Object Selection).
Error number		A 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 on the screen Natural Library Objects, Details. See also Natural Library Object Details.
Details		Invokes the screen Natural Library Objects, Details where 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.

The section below covers the following topics:

- 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 Natural library objects.

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

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

Field	PF Key	Explanation
Library		The name of a library or a range of names: see (*) Name.
Select (Library)	PF4	Displays a selection list of all libraries available. See also the section Library Selection.
DBID/FNR	PF5	See DBID/FNR in Natural Library Objects above.
Passw./Ciph.		Only applies to the unload function.  The password and cipher code of the Adabas file where the Natural libraries are stored.
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		The kind of Natural programming object:  <b>S</b> Source objects only. <b>C</b> Cataloged objects only. <b>A</b> All saved and/or cataloged objects. This is the default. * <b>W</b> All stowed objects: source and cataloged objects with identical date and time. <b>B</b> Both source and cataloged objects if both exist.  <b>Note:</b> <b>W</b> (stowed) and <b>B</b> (both) are valid for the unload function only. Though <b>W</b> and <b>B</b> can also be entered for the load or scan function, they are treated like <b>A</b> (all objects).
Programming Object Options: Natural types		The types of Natural programming object:  Up to 15 valid external Natural object types, such as <b>P</b> 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		The 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		The kind of error message text:  <b>S</b> Short texts of error messages.  <b>L</b> Long texts.  <b>A</b> All short and/or long texts. This is the default.  <b>B</b> Short and long texts 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 properties for the Natural library objects selected for processing.

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

The window Unload/Load/Scan Library Objects, Properties 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 of user IDs: see (*) Name.
Programming mode	The programming mode of the Natural programming objects:  <b>R</b> Reporting mode only. <b>S</b> Structured mode only. <b>A</b> No mode check performed. This is the default.
Natural version	The 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.  You can also specify a range of versions: see (*) Name.
Object Date: Select all objects (no date check)	Performs no check for the object date.
Object Date: Select objects modified between/and	Selects 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	Selects 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	Selects 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	Selects 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 specified in Natural Library Objects, Natural Library Object Details and Natural Library Object Properties are checked against the specifications made on the screen Unload/Load/Scan Library Objects, Exceptions. 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 Direct and PROCEDURE Workplan Syntax in the section Commands.

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

## Natural Library Object Exception Properties

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

The screen Unload/Load/Scan Library Objects, Exceptions 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.
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 Direct and PROCEDURE Workplan Syntax in the section Commands.

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

Field	PF Key	Explanation
Error number from/to		A 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 screen Unload/Load/Scan Natural Library Objects, Details where you can enter more detailed object specifications: see Natural System Error Message Details.
Settings	PF7	Invokes the screen Unload/Load/Scan Settings where you can specify option and parameter settings. See the section Settings.

The section below covers the following topics:

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

Field	PF Key	Explanation
DBID/FNR		Only applies to the unload function.  The database ID (DBID) and the number of the Adabas (FNR) file where the Natural error messages are stored.
Password/Cipher		Only applies to the unload function.  The password and cipher code of the Adabas file where the Natural error message sources are stored.
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 specified in Natural System Error Messages and Natural System Error Message Details are checked against the specifications made on the screen Unload/Load/Scan System Error Messages, Exceptions. Error messages that match **all** specifications defined as exceptions, are

exempted from processing.

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

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

## Natural Command Processor Sources

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

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

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

Field	PF Key	Explanation
Library		The name of a Natural command processor library or a range of names: see (*) Name.
Select library	PF4	Invokes a selection list of Natural command processor libraries available. See also Library Selection.
DBID/FNR		Only applies to the unload function.  The database ID (DBID) and the number of the Adabas (FNR) file where the Natural command processor sources are stored.
Password/Cipher		Only applies to the unload function.  The password and cipher code of the Adabas file where the Natural command processor sources are stored.
Object name		The name of a Natural command processor source or a range of names: see (*) Name.
Select objects		Only applies to the unload function.  If no library range has been specified and this field is selected, a selection list of Natural command processor sources available is displayed (see also the section 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.

## Natural Command Processor Source Exceptions

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

All objects that match the selection criteria specified in Natural Command Processor Sources are checked against the specifications made on the screen Unload/Load/Scan Natural Command Processors, Exceptions. 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 Direct and PROCEDURE Workplan Syntax in the section 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 Direct and PROCEDURE Workplan Syntax in the section Commands.

When you select Natural-related objects on 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.

The section below covers the following topics:

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

### Natural Profiles

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

Field	PF Key	Explanation
DBID/FNR Password/Cipher		Only applies to the unload function.  The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the Natural profiles are stored.  If no values (or 0) are specified, the current FNAT system file is used.
Select (DBID/FNR)	PF5	Only applies to the unload function.  Invokes the Select System File window with a list of all system files available in your Natural environment: see also the section System File Selection.
Profile Types		The type(s) of profile to be processed:  Parameter, Editor, Map and/or Device.
Object name		The name of a profile or a range of names: see (*) Name.
Select (Object name)		Only applies to the unload function.  Invokes the List Profiles screen with a selection list of profiles available (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 Direct and PROCEDURE Workplan Syntax in the section Commands.

## Natural Profile Exceptions

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

All objects that match the selection criteria specified in Natural Profiles are checked against the specifications made on the screen Unload/Load/Scan Natural Profiles, Exceptions. 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 Direct and PROCEDURE Workplan Syntax in the section Commands.

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

Field	Explanation
Object name	The name of a profile or a range of names: see (*) Name.
Profile Types	The type(s) of profile to be processed: Parameter, Editor, Map and/or Device.

## Natural Debug Environments

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

Field	PF Key	Explanation
Library		The name of a library or a range of names: see (*) Name.
Select library	PF4	Displays a selection list of all libraries available. See also the section Library Selection.
DBID/FNR Password/Cipher		Only applies to the unload function.  The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the Natural debug environments are stored.  If no values (or 0) are specified, the current FNAT system file is used.
Object name		The name of a debug environment or a range of names: see (*) Name.
Select objects		Only applies to the unload function.  Displays a selection list of debug environments available (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 Direct and PROCEDURE Workplan Syntax in the section 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 specified in Natural Debug Environments are checked against the specifications made on the screen Unload/Load/Scan Debug Environments, Exceptions. 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 Direct and PROCEDURE Workplan Syntax in the section Commands.

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

Field	Explanation
Library	The name of a library or a range of names: see (*) Name.
Select (Library)	Displays a selection list of all libraries available. See also the section Library Selection.
Object name	The name of a debug environment or a range of names: see (*) Name.

## Natural DL/I Subfiles

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

Field	PF Key	Explanation
DBID/FNR Password/Cipher		Only applies to the unload function.  The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the Natural DL/I subfiles are stored.  If no values (or 0) are specified, the current FDIC system file is used.
Select (DBID/FNR)	PF5	Only applies to the unload function.  Invokes the Select System File window with a list of all system files available in your Natural environment: see also the section System File Selection.
Subfile Types		The type(s) of DL/I subfile to be processed: NSB and/or NDB.
Object name		The name of a DL/I subfile or a range of names: see (*) Name.
Select (Object name)		Only applies to the unload function.  Displays a selection list of DL/I subfiles available (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 specified in Natural DL/I Subfiles are checked against the specifications made on the screen Unload/Load/Scan Natural DL/I Subfiles, Exceptions. 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 Direct and PROCEDURE Workplan Syntax in the section Commands.

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

Field	Explanation
Object name	The name of a DL/I subfile or a range of names: see (*) Name.
Subfile Types	The type(s) of DL/I subfile to be processed: NSB and/or NDB.

## DDMs

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

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

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

Field	PF Key	Explanation
FDIC DBID/FNR FDIC Password/Cipher		Only applies to the unload function.  The database ID (DBID), file number (FNR), password and cipher code of the Adabas file where the DDMs are stored.  If no values (or 0) are specified, the current FDIC system file is used.
DDM name		Only applies to the unload function.  The name of a DDM or a range of names: see (*) Name.
Select objects		Only applies to the unload function.  Displays a selection list of DDMs available (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.

The section below covers the following topics:

- DDM Properties
- DDM Exceptions

## DDM Properties

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

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

The window Unload/Load/Scan DDMs, Properties 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 of user IDs: 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	Selects 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	Selects 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 specified in DDMs and DDM Properties are checked against the specifications made on the screen Unload/Load/Scan DDM, Exceptions. 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 Direct and PROCEDURE Workplan Syntax in the section Commands.

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

Field	Explanation
DDM name	The name of a DDM or a range of names: 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 function is used to select Adabas FDTs (Field Definition Tables) for processing.

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

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

Field	PF Key	Explanation
DBID		The database ID (DBID) where the FDT is located.  Load and scan: A DBID or <b>0</b> for all DBIDs.
FNR		The file number (FNR) where the FDT is located.  Load and scan: A FNR or <b>0</b> for all FDTs.
Password/Cipher		Only applies to the unload and load functions.  The Adabas password and the cipher code of the Adabas file where the FDT is located.
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 specify a Workplan of the type SELECTION or LIST. These Workplans specify selection criteria for the objects to be processed. See also the section Workplans.

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

<b>Field</b>	<b>PF Key</b>	<b>Explanation</b>
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 all Workplans available. 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.