

# 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 field 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
  - External Files
  - 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 All Objects screen, you can invoke the Settings screen where you can specify option and parameter settings. See the section Settings. For a description of keywords and valid values, see Select-Clause in the section Direct and PROCEDURE Workplan Syntax, Commands.

## 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, commands and alternative 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 <b>0</b> ) are specified, the FUSER or FNAT system file is used.
Select DBID/FNR	PF5	Unload only.  Displays a selection list of the available system files.
Library	PF6	The name of a library or a range: see (*) Name.
Select Library	PF4	Displays a selection list of the available libraries. See also the section Library Selection.
Select Objects		Unload only.  If no library range is specified, a selection list of the available Natural objects is displayed (see also the section Object Selection).
Object Name		The name of a Natural object or a range: see (*) Name.  Only evaluated if the parameter Natural Programming Objects is selected in the "Natural Library Objects, Details" screen, which is the default. See also Natural Library Objects Details.
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 is selected in the "Natural Library Objects, Details" screen, which is the default. See also Natural Library Objects Details.
Details		Invokes the "Natural Library Objects, Details" screen so that you can enter more detailed object specifications. See Natural Library Objects Details.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings: see the section Settings.
Work File	PF11	The name of the work file to be used for the function. If the name exceeds the available space, press PF11/WorkF and enter a longer work file name.  See also the section Work Files.

Below is information on:

- Natural Library Objects Details
- Natural Library Objects Properties
- Natural Library Objects Exceptions
- Natural Library Objects Exceptions Properties

## Natural Library Objects 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, commands and alternative 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 the available libraries. See also the section Library Selection.
DBID/FNR	PF5	See DBID/FNR in Natural Library Objects above.
Object Types: Natural Programming Objects		Natural programming objects including DDMs.
Object Types: Error Messages		User-defined Natural error messages.
Object Name		See Object Name in Natural Library Objects above.
S/C-Kind		<p>Kinds of Natural programming objects:</p> <p><b>S</b> Source objects only.</p> <p><b>C</b> Cataloged objects only.</p> <p><b>A</b> All saved and/or cataloged objects. This is the default.</p> <p><b>*</b></p> <p><b>W</b> All stowed objects: source and cataloged objects with identical date and time.</p> <p><b>B</b> Both source and cataloged objects if both exist.</p> <p><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).</p>
Natural Types		<p>Types of Natural programming objects:</p> <p>Up to 15 valid external Natural object types, such as <b>P</b> for program and <b>V</b> for DDMs.</p> <p>An asterisk (*) selects all types of Natural programming objects (this is the default).</p>
Select Natural Types	PF6	Invokes a selection window where you can specify the type of Natural programming object.
Add/Change Properties for Selection	PF7	Invokes an extra screen where you can specify additional properties of Natural programming objects: see Natural Library Objects Properties.
Error Messages: Error Number		See Error Number in Natural Library Objects above.
Language Codes		<p>Language code(s) of the error messages:</p> <p>Up to 8 valid Natural language codes.</p> <p>An asterisk (*) selects all Natural language codes.</p>

Field	PF Key	Explanation
S/L-Kind		Kind of error message text:  <b>S</b> Short text of error message. <b>L</b> Long text. <b>A</b> All short and/or long texts. <b>B</b> Short and long text if both exist.
Add/Change Exception Criteria for Selection	PF8	Invokes an extra screen where you can specify exceptions to the selection of Natural programming objects: see Natural Library Objects Exceptions.

## Natural Library Objects 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.
Mode	Type of programming mode of the Natural programming objects:  <b>R</b> Report mode only. <b>S</b> Structured mode only. <b>A</b> 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.
DDM DBID	The database ID (DBID) of the Data Definition Modules (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	All objects whose save or catalog date and/or time is within the range specified in the 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 whose save or catalog date and/or time fits the date/time specified in the 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 whose size is within the range specified in the fields by entering a start size and/or an end size.
Object Size: Select Objects with Size	All objects whose size fits the size value specified in the field.

## Natural Library Objects 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 Objects Details and Natural Library Objects 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 with 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 Objects Exceptions Properties.

Field	PF Key
Library	PF4
Select Library	
Object Types: Natural Programming Objects	
Object Types: Error Messages	
Object Name	
S/C-Kind	
Natural Types	
Select Natural Types	PF6
Add/Change Properties for Selection	PF7
Error Number	
Language Codes	
S/L-Kind	

## Natural Library Objects Exceptions 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, commands and alternative PF keys.

Field	Explanation
User ID	See User ID in Natural Library Objects Properties.
Programming Mode	See Programming Mode in Natural Library Objects Properties.
Natural Version	See Natural Version in Natural Library Objects Properties.
DDM DBID	See DDM DBID in Natural Library Objects Properties.
DDM FNR	See DDM FNR in Natural Library Objects 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 whose save or catalog date and/or time is within the range specified in the 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 whose save or catalog date and/or time fits the date/time specified in the 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 whose size is within the range specified in the fields by entering a start size and/or an end size.
Object Size: Exclude Objects with Size	Exempts from processing all objects whose size fits the size value specified in the field.

## Natural System Error Messages

This function is used to select Natural system error messages in the current FNAT file in the work file 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 Natural System Error Messages" screen provides the following fields, commands and alternative PF keys.

Field	PF Key	Explanation
Error Number		The range of Natural system error messages delimited by the first and the last message number.
Details	PF6	Invokes the "Unload/Load/Scan Natural Library Objects, Details" screen where you can enter more detailed object specifications: see Natural System Error Messages Details.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings. See the section Settings.
Work File	PF11	The name of the work file to be used for the function. If the name exceeds the available space, press PF11/WorkF and enter a longer work file name.

Below is information on:

- Natural System Error Messages Details
- Natural System Error Messages Exceptions

## Natural System Error Messages 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 commands:

Field	PF Key	Explanation
Error Number		See Error Number in Natural System Error Messages above.
Language Codes		See Language Codes in Natural Library Objects Details.
S/L-Kind		See S/L-Kind in Natural Library Objects Details.
Add/Change Exception Criteria for Selection	PF8	Invokes an extra screen where you can specify exceptions to the selection of Natural system error messages: see Natural System Error Messages Exceptions.

## Natural System Error Messages 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 Messages 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 Messages 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 (which are located in Adabas files).

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, commands and alternative 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.  If no values are specified, the current setting of LFILE 190 is used. For details, see the Natural SYSNCP Utility documentation.
Password/Cipher		Unload only.  The Adabas password and cipher code of the Adabas file where the Natural command processor sources reside.
Select Library	PF4	Invokes a selection list of the available Natural command processor libraries. See also Library Selection.
Select Objects		Unload only.  If no library range has been specified and this field is selected, a selection list of the available Natural command processor sources is displayed (see also Object Selection).
Object Name		The name of a Natural command processor source or a range: see (*) Name.
Exceptions	PF8	Invokes an extra screen where you can specify exceptions to the selection of Natural command processor sources: see Natural Command Processor Sources Exceptions.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings. See the section Settings.
Work File	PF11	The name of the work file to be used for this function. If the name exceeds the available space, press PF11/WorkF and enter a longer work file name.

## Natural Command Processor Sources 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

Only applies when processing data in internal format, that is, if Transfer Format has **not** been selected. See also Work File Format in the section Work Files.

This function is used to specify further selection criteria for the processing of Natural-related objects. Natural-related objects are objects that exist in a Natural environment but do not reside in Natural libraries and Adabas files.

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-related Objects" screen provides the following fields, commands and alternative PF keys:

Field	PF Key	Explanation
Natural Path		The name of the path where the Natural-related object resides.  Load and scan: The name of the path or asterisk (*) to select all paths.  Valid values are:  NATDIR, NATVERS, NATBIN, NATERR, NATSAG, PARM_PATH, PROFILE_PATH, TEXT_PATH, TMP_PATH.
Select Natural Path	PF4	Invokes a selection list of the available Natural paths.
Object Name	PF5	The name of a Natural-related object.  Load and scan: A single name or a range: see (*) Name.  If the name exceeds the available space, press PF5/Objct and enter a longer name.
Details	PF6	Invokes the "Natural-related Objects, Details" screen where you can enter further object specifications: see Natural-related Objects Details.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings. See the section Settings.
Work File	PF11	The name of the work file to be used for this function. If the name exceeds the available space, press PF11/WorkF and enter a longer work file name.

Below is information on:

- Natural-related Objects Details
- Natural-related Objects Exceptions

### Natural-related Objects Details

This function is used to specify further selection criteria for the processing of Natural-related 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-related Objects, Details" screen provides the following fields, commands and alternative PF keys:

Field	PF Key	Explanation
Natural Path		See Natural Path in Natural-related Objects above.
Select Natural Path	PF4	Invokes a selection list of the available Natural paths.
Object Name	PF5	See Object Name in Natural-related Objects above.
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 Objects Properties.
Object Date: Select Objects modified on		See Object Date in Natural Library Objects 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 whose size is within the range specified in the fields by entering a start size and/or an end size.
Object Size: Select Objects with Size		All objects whose size fits the size value specified in the field.
Add/change Exception Criteria for Selection	PF8	Invokes an extra screen where you can specify exceptions to the selection of Natural-related objects: see Natural-related Objects Exceptions.

## Natural-related Objects Exceptions

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

All Natural-related objects that match the selection criteria defined in Natural-related Objects and Natural-related Objects Details are checked against the specifications made in the "Unload/Load/Scan Natural-related 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 Natural-related Objects, Exceptions" screen provides the following fields, commands and alternative PF keys:

Field	PF Key	Explanation
Natural Path	PF4	See Natural Path in Natural-related Objects above.
Select Natural Path		Invokes a selection list of the available Natural paths.
Object Name	PF5	See Object Name in Natural-related Objects above.
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 Objects Properties Exceptions above.
Object Date: Exclude Objects modified on		See Object Date in Natural Library Objects Properties Exceptions above.
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 whose size is within the range specified in the fields by entering a start size and/or an end size.
Object Size: Exclude Objects with Size		Exempts from processing all objects whose size fits the size value specified in the field.

## External Objects

Only applies when processing data in internal format, that is, if Transfer Format has **not** been selected. See also Work File Format in the section Work Files.

This function is used to select external objects. External object are objects that reside outside Natural and Adabas environments.

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 External Objects" screen provides the following fields, commands and alternative PF keys:

Field	PF Key	Explanation
External Path	PF4	The name of the path where the external object resides.  Load and scan: The name of the path or asterisk (*) to select all paths.  If the name exceeds the available space, press PF4/Path and enter a longer name.
Object Name	PF5	The name of an external object.  Load and scan: A single name or a range: see (*) Name.  If the name exceeds the available space, press PF5/Objct and enter a longer name.
Details	PF6	Invokes the "Unload/Load/Scan External Objects, Details" screen where you can enter further object specifications: see External Objects Details.
Settings	PF7	Invokes the Unload/Load/Scan Settings screen where you can specify option and parameters setting. See the section Settings.
Work File	PF11	The name of the work file to be used for this function. If the name exceeds the available space, press PF11/WorkF and enter a longer work file name.

Below is information on:

- External Objects Details
- External Objects Exceptions

## External Objects Details

This function is used to specify further selection criteria for the processing of external 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 External Objects, Details" screen provides the following fields, commands and alternative PF keys:

Field	PF Key	Explanation
External Path	PF4	See External Path in External Objects above.
Object Name	PF5	See Object Name in External Objects above.
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 Objects Properties.
Object Date: Select Objects modified on		See Object Date in Natural Library Objects Properties.
Object Size: Select all Objects (no size check)		Performs no check for the object size.
Object Size: Select Objects with Size between/and		See Object Size in Natural Library Objects Properties.
Object Size: Select Objects with Size		All objects whose size fits the size value specified in the field.
Add/change Exception Criteria for Selection	PF8	Invokes an extra screen where you can specify exceptions to the selection of external objects: see External objects Exceptions.

## External Objects Exceptions

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

All external objects that match the selection criteria defined in External Objects and External Objects Details are checked against the specifications made in the "Unload/Load/Scan External 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 External Objects, Exceptions" screen provides the following fields, commands and alternative PF keys:

Field	PF Key	Explanation
External Path	PF4	See External Path in External Objects above.
Object Name	PF5	See Object Name in External Objects above.
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 Objects Properties Exceptions.
Object Date: Exclude Objects modified on		See Object Date in Natural Library Objects Properties Exceptions.
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 whose size is within the range specified in the fields by entering a start size and/or an end size.
Object Size: Exclude Objects with Size		Exempts from processing all objects whose size fits the size value specified in the field.

## FDTs

This 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, commands and alternative PF keys:

Field	PF Key	Explanation
DBID		The database ID (DBID) of the FDT(s) to be processed.  Load and scan: A DBID or <b>0</b> for all DBIDs.
FNR		The file number (FNR) of the FDT(s) to be processed.  Load and scan: A FNR or <b>0</b> 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.
Work File	PF11	The name of the work file to be used for this function. If the name exceeds the available space, press PF11/WorkF and enter a longer work file name.

## 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, commands and alternative 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.
Work File	PF11	The name of the work file to be used for this function. If the name exceeds the available space, press PF11/WorkF and enter a longer work file name.