

Object Specification - Natural Library Objects

This section describes the options provided on the object-specification screens for processing Natural library objects. Natural library objects are programming objects and user-defined error messages.

For descriptions of keywords and valid input values, see also *select-clause* in the section *Direct Commands*.

This section covers the following topics:

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

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 0) are specified, the current FUSER or FNAT system file is used.
Select DBID/FNR	PF5 (advanced-user mode only)	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 for the Adabas file where the Natural libraries are stored.
Library		The name of a library or a range of names: see <i>Name in Name, Date and Time Specification</i> .
Select library	PF4	Displays a selection list of all libraries available. See also <i>Select Library</i> .
Object name		The name of a Natural programming object or a range of names: see <i>Name</i> . Only evaluated if the field Natural programming objects (default setting) is selected on the screen Natural Library Objects, Details . See also <i>Natural Library Object Details</i> .
Select objects		Only applies to the unload function in advanced-user mode. If no library range is specified, a selection list of all Natural objects available is displayed (see also <i>Select Objects</i>).
Error number from/to		A valid range (1 - 9999) of user-defined error messages delimited by the first and the last message number. Only evaluated if the field Error messages (default setting) is selected on the screen Natural Library Objects, Details (see also <i>Natural Library Object Details</i>).
Details	PF6	Invokes the screen Natural Library Objects, Details where you can enter more detailed object specifications. See <i>Natural Library Object Details</i> .
Settings	PF7	Only applies to functions executed in advanced-user mode. Invokes the Unload/Load/Scan Settings screen where you can specify option and parameter settings: see <i>Settings</i> .

Natural Library Object Details

The screen **Unload/Load/Scan Natural Library Objects, Details** is used to specify further selection criteria for Natural library objects.

For descriptions of keywords and valid input values, see also *select-clause* in the section *Direct 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 <i>Name</i> in <i>Name, Date and Time Specification</i> . Ranges are not allowed if the Use Predict set option is selected.
Select (Library)	PF4	Displays a selection list of all libraries available. See also <i>Select Library</i> .
DBID/FNR		See DBID/FNR in <i>Natural Library Objects</i> 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 error messages.
Object name		See Object name in <i>Natural Library Objects</i> above.

Field	PF Key	Explanation
Use Predict set		<p>Only applies to the unload and find functions and if Predict is installed.</p> <p>This option is used to read the names of the objects to be processed from a retained set. A retained set is created with the save set option of the LIST XREF command.</p> <p>If the Use Predict set option is selected, the following applies:</p> <ul style="list-style-type: none"> ● The Object name field must contain asterisk (*) indicating all objects. This is the default setting. ● The Library field must contain the name of a single library. Name ranges are not allowed. ● The Set number field must be filled. <p>For detailed information on Predict sets, refer to the <i>Predict</i> documentation.</p>
Set number		<p>Only applies if Use Predict set is selected.</p> <p>A one- or two-digit number that identifies the retained set to be used.</p>
Set library		<p>Only applies if Use Predict set is selected.</p> <p>The name of the library to be searched for a Predict set. If you do not specify a name, the library entered in the Library field is used by default.</p>
Set user		<p>Only applies if Use Predict set is selected.</p> <p>The ID of the user who created the retained set. If no ID is entered, the ID specified with the system variable *USER (see the <i>System Variables</i> documentation) is used.</p>

Field	PF Key	Explanation
Programming Object Options: S/C-Kind		The kind of Natural programming object: S Source objects only. C Cataloged objects only. A or * All source objects and/or cataloged objects. This is the default setting. W All STOWed objects: source and cataloged objects with identical date and time. B Both source and cataloged objects if both exist. Note: W and B 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.
Programming Object Options: Natural types		A Natural object-type code such as P for program. For a list of valid codes, see NATTYPE in the section <i>select-clause</i> .
Select Natural types	PF6	Invokes a window where you can select one or more types of Natural object.
Properties	PF7	Invokes an extra screen where you can specify additional properties of Natural programming objects: see <i>Natural Library Object Properties</i> .
Error Messages: Error number from/to		A range of user-defined error messages as entered in the Error number from/to fields (see <i>Natural Library Objects</i> above).
Error Messages: Language codes		Up to 8 valid language codes (for example, code 1 for English) of the specified error messages. An asterisk (*) selects all language codes.

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

Natural Library Object Properties

The screen **Unload/Load/Scan Library Objects, Properties** is used to specify properties for the Natural library objects selected for processing.

For descriptions of keywords and valid input values, see also *select-clause* in the section *Direct Commands*.

The screen **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 <i>Name</i> in <i>Name, Date and Time Specification</i> .
Programming mode	The programming mode of the Natural programming objects: R Reporting mode only. S Structured mode only. A No mode check performed. This is the default setting.
Natural version	The Natural version of the Natural programming objects. Valid version format: <i>VRS</i> where <i>V</i> is the 1-digit version, <i>R</i> the 1-digit release, and <i>S</i> the 2-digit system maintenance level. You can also specify a range of versions: see <i>Name</i> .

Field	Explanation
Object Date: Select all objects (no date check)	Selects all objects, regardless of their 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. For valid input values, see <i>Date</i> and <i>Time</i> in <i>Name, Date and Time Specification</i> . Special dates allowed are: TODAY, YESTERDAY, MONTH and YEAR.
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. For valid input values, see <i>Date</i> and <i>Time</i> . Special dates allowed are: TODAY and YESTERDAY.
Object Size: Select all objects (no size check)	Selects all objects, regardless of their 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

The screen **Unload/Load/Scan Library Objects, Exceptions** 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 descriptions of keywords and valid input values, see also *select-clause* in the section *Direct 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 explanations 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*.

Field	PF Key
Library	PF4
Select (Library)	
Object Types: Natural programming objects Error messages	
Object name	
S/C-Kind	
Natural types	
Select Natural types	PF6
Properties	PF7
Error number	
S/L-Kind	
Languages	

Natural Library Object Exception Properties

The screen **Unload/Load/Scan Library Objects, Exceptions** is used to specify exceptions to the properties of the Natural library objects selected for processing.

The screen provides the following fields:

Field	Explanation
User ID	See User ID in <i>Natural Library Object Properties</i> .
Programming mode	See Programming mode in <i>Natural Library Object Properties</i> .
Natural version	See Natural version in <i>Natural Library Object Properties</i> .
Object Date: Ignore object date	Performs no date check. Objects are processed, regardless of their 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. For valid input values, see <i>Date</i> and <i>Time</i> in <i>Name, Date and Time Specification</i> . Special dates allowed are: TODAY, YESTERDAY, MONTH and YEAR.
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. For valid input values, see <i>Date</i> and <i>Time</i> . Special dates allowed are: TODAY and YESTERDAY.
Object Size: Ignore object size	Performs no size check. Objects are processed, regardless of their 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.