

# Settings - GUIs

With the Settings function, you can specify option settings for the unload, load or scan function and parameter settings for the unload or load function.

\*The cross-references in the tables below regarding the name, date and time parameters refer to the section Name, Date and Time Specification.

## To invoke the Settings window in Advanced-User mode

- From the Object Handler welcome window, start the unload or load function.  
Or, during the unload or load function, from the Options menu choose Settings.  
Or, during the unload or load function, from an object specification window click Settings.

This section covers the following topics:

- Settings Window Fields
  - Set Additional Options
  - Set Global Parameters
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## Settings Window Fields

The Settings window provides the following fields:

Field	Explanation
Transfer Format	<p>Only valid if Use Default Options (this is the default) or Use Additional Options has been selected. See below.</p> <p>Unload: The data to be unloaded are written in Transfer format to the work file.</p> <p>Load and scan: The data to be loaded or scanned are expected to be in Transfer format.</p>
(Server) Unload/Load/Scan File	<p>Only valid if Use Default Options (this is the default) or Use Additional Options has been selected (see below).</p> <p>The name of the work file to be used for the function. See also the section Work Files. Work File 1 is used as the unload, load or scan file.</p>
Select	<p>Not applicable to Server Unload/Load/Scan Files.</p> <p>Invokes the browse function to select a work file from a directory.</p>
Use Default Options	Default options are used by default: see also Use Additional Options below. See also Set Additional Options below.
Use Additional Options	Used in connection with Set (see below).
Set	<p>Only activated if Use Additional Options has been selected</p> <p>Invokes the Unload/Load/Scan Options window where you can modify the default settings and enter additional options for the processing sequence. See also Set Additional Options below.</p>
Use OPTION Workplan	<p>A workplan of the type OPTION is used. See also Workplans.</p> <p>In the input field, enter the name of a workplan of the type OPTION, or choose a name from the drop-down list box.</p>
List (OPTION Workplan)	<p>Only activated if Use OPTION Workplan (see above) has been selected and the name of a valid workplan of the type OPTION was entered.</p> <p>Displays the contents of the workplan specified.</p>
Do not use Parameters	No parameters are used by default.
Use global Parameters	<p>Used in connection with Set (see below).</p> <p>Global parameters are used. See also Set Global Parameters below.</p>
Set (global Parameters)	<p>Only activated if Use Global Parameters has been selected.</p> <p>Invokes the Unload/Load Parameters window. See Set Global Parameters below for a description of the keywords and the valid values.</p>
Use PARAMETER Workplan	<p>A workplan of the type PARAMETER is used. See also Workplans.</p> <p>In the input field, enter the name of a workplan of the type PARAMETER, or choose a name from the drop-down list box.</p>
List (PARAMETER Workplan)	<p>Only valid if Use PARAMETER Workplan (see above) has been selected and the name of a valid workplan of the type PARAMETER was entered.</p> <p>Displays the contents of the workplan specified.</p>

## Set Additional Options

The sections contained in the Unload/Load/Scan Options window are listed below. Note that not all of the sections may appear on the screen, because they depend on the function used, the settings defined and the products installed.

- Work File Options
- XREF Options
- Transfer Options
- FDIC Setting
- FSEC Setting

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

### Work File Options

The following data can be entered in the fields of the section Work File Options:

Field	Explanation
Unload/Load/Scan File	The work file to be used for the unload, load or scan function.  See also the section Work Files.  Click Select to choose a name from a directory.
Write Report	Writes a report of the objects processed.  In remote environments, the report data are written to a Natural text member located in the workplan library.
Start New Report	Only valid if Write Report has been selected.  Deletes the contents of the report before a new report is written.
Report File	Only valid in local environments and if Write Report has been selected.  The name of a report file. Click Select to choose a name from a directory.
Write Restart Information	Applies to the load function only.  With this option you can resume load functions that terminated abnormally.  In local environments, the selection criteria, the option, the parameter settings and the objects already processed are written as restart information to Work File 6 (see Restart File below). In remote environments, this restart information is written to a Natural text member located in the workplan library. If the load function terminates before the work file has been processed completely, you can continue from the point of termination using the restart function.  See also Restart Load in the section Function.
Restart File	Only applies to the load function in local environments and if Write Restart Information has been selected.  The name of the work file to be used for the restart data: Work File 6 (default) or the <i>file-name</i> specified. Click Select to choose a name from a directory.  See also Restart Load in the section Function.

## XREF Options

The XREF Options are only available when unloading or loading processing data in internal format, that is, if the field Transfer Format has **not** been selected. To process XREF data, Predict must be installed.

The available XREF options depend on the function selected:

Field	Explanation	Function
Yes (On)	Unloads cataloged objects and their cross-reference data, if any. Loads cataloged objects and their cross-reference data if cross references exist on the work file.	Unload Load
Ignore (Off)	No XREF data are processed.	Unload Load
Doc	Loads cataloged objects only if Predict entries exist for the objects in the FDIC system file.	Load
Force	Loads cataloged objects and their cross-reference data only if cross-references exist on the workfile and if Predict entries exist for the objects in the FDIC system file.	Load
Special	Loads cataloged objects and their cross-reference data (if any).	Load

## Transfer Options

The Transfer Options are only available when processing data in Transfer format, that is, if the Transfer Format box has been checked.

The Transfer Options depend on the function selected:

Option	Explanation	Function
Substitute Line References	Only applies if source-code line numbers are used for statement references.  If line numbers are used as references in the source code, the line numbers of referenced lines and the line number references are replaced with labels. The sources are not modified in the database.	Unload
Include Line Numbers	By default, line numbers in Natural objects are not transferred. If you choose this option, line numbers in Natural will be transferred.	Unload
Incorporate Free Rules	If Predict is installed, Predict rules associated with the map are incorporated into the map source.	Unload
Use Conversion Table	<b>Unload:</b> Converts data into EBCDIC format using the internal Natural conversion table (System Table) or a conversion table defined by the user (User Table).  <b>Load:</b> Converts data into ASCII format using the internal Natural conversion table (System Table) or a conversion table defined by the user (User Table). Note that this only applies if the data in the work file are in EBCDIC format or if a conversion program is specified (see User Table).	Unload Load
System Table	Only valid if Use Conversion Table has been selected.  <b>Unload:</b> Converts data into EBCDIC format using the internal Natural conversion table.  <b>Load:</b> Converts data into ASCII format using the internal Natural conversion table.	Unload Load
User-defined Table	Only valid if Use Conversion Table has been selected.  If the name of a conversion program has been entered in the field, data is converted into EBCDIC format using the conversion program defined. To specify an individual conversion program, the program must be located in the library SYSOBJH or one of its steplibs. See the example OTNCONAE in the library SYSOBJH.  If no conversion program is specified, by default, the corresponding conversion table in the Natural file NATCONV.INI is used for the unload ([ISO8859_1->EBCDIC] ) and the load ([EBCDIC->ISO8859_1]) function.	Unload Load
Translate to Upper Case	Any source code to be loaded is translated to upper case.	Load

## Replace Options

The replace options below only apply to the load function:

Replace all	Replaces all objects.
Do not replace	Does not replace any objects. This is the default.
Replace obsolete Files	Replaces objects with a date older than the date of the object in the load file.
Replace except newer	Replaces all objects except those with a date newer than the date of the object in the load file.

## Number to Process

Applies to the load and scan functions only.

In the field "Number to Process", enter a numeric value with a maximum of 5 digits.

If a value greater than 0 is specified, the load or scan function stops after the specified number of object was processed from the work file.

### Note:

If a cataloged Natural object is processed directly after the source object of the same name, they are counted as one object.

## FDIC Setting

Only applies if Predict is installed.

With the FDIC Setting option, you specify the Predict file (FDIC) used to process XREF data:

DBID	The DBID of the FDIC file to be used.
FNR	The FNR of the FDIC file to be used.
Password	Optional. The Adabas password for the Adabas file of the FDIC file to be used.
Cipher	Optional. The cipher code for the Adabas file of the FDIC file to be used.

## FSEC Setting

Only applies if Natural Security is installed.

With the FSEC Setting option, you specify the Natural Security data file (FSEC) used for security checks:

DBID	The DBID of the FSEC file to be used.
FNR	The FNR of the FSEC file to be used.
Password	Optional. The Adabas password for the Adabas file of the FSEC file to be used.
Cipher	Optional. The cipher code for the Adabas file of the FSEC file to be used.

## Set Global Parameters

Not applicable to the scan function.

The global parameters are used to change object parameters during the load or unload function, and to change the target environment during the load function.

If they are specified during the unload function, the parameter settings affect the objects before they are written to the work file. If they are specified during the load function, the parameter settings affect the objects before they are written to the target environment.

The parameters consist of the Value and the New Value, except for "Error Number Difference" and target system file specifications. If no Value is specified, the New Value applies to all objects which have this attribute. For example: Natural system error messages have no library name. Therefore, the value in the field New Value is ignored.

For valid values, see also Parameter-Setting in the section Direct and PROCEDURE Workplan Syntax, Commands.

The following data can be specified for the load and the unload functions:

<b>Field</b>	<b>Explanation</b>
Name	Value: A single object name or a range: see (*) Name. New Value: A single object name or a range: see (*) Name.  See also Rules for New Values below.
Library	Value: A single library name or a range: see (*) Name. New Value: A single library name or a range: see (*) Name.  See also Rules for New Values below.
Date	Value: A single date or a range: see (*) Date and (*) Time. New Value: A single date or a range: see (*) Date and (*) Time.  See also Rules for New Values below.
User ID	Value: A single user ID or a range: see (*) Name. New Value: A single user ID or a range: see (*) Name.  See also Rules for New Values below.
Language Codes	Value: up to 8 language codes. New Value: Up to 8 language codes. If more than 1 language code is specified, the Value must contain the same number of language codes. In this case, the language code in Value is replaced by the language code in the corresponding New Value.
Error Number Difference	A 4-digit positive or negative numerical value. It can only be specified if start and end values are entered as selection criteria (Number From/To). Otherwise, it is not possible to check if the result is valid (valid range: 1 to 9999).
FDT DBID/FNR	Value: A valid DBID and/or FNR. New Value: A valid DBID and/or FNR.
External Path	Value: The name of the path for external objects or a range: see (*) Name. New Value: The name of the path for external objects: see (*) Name.  See also Rules for New Values below.

The following data can be specified for the load function only:

Field	Explanation
Load FNAT DBID/FNR Password Cipher	Database ID (DBID) and file number (FNR) of the target FNAT system file. This system file is used for all library objects whose library name starts with SYS, but not SYSTEM.  In remote environments, you can also specify the Adabas password and cipher code.
Load FUSER DBID/FNR Password Cipher	DBID and FNR of the target FUSER system file. This system file is used for all library objects whose library name does not start with SYS, and for the library SYSTEM.  In remote environments, you can also specify the Adabas password and cipher code.
Load NCP DBID/FNR Password Cipher	Specifies the target DBID and FNR of the Adabas file to which the Natural command processor sources are to be loaded. Additionally, you can specify the Adabas password and cipher code.

## Rules for New Values

The following applies to the New Value for Object Name, Library, User ID, External Path and Date:

If the New Value contains a range with an asterisk (\*), such as, ABC\*, the number of characters before the asterisk (\*) determines the number of characters to be replaced in Value. This is also valid if Value is shorter than the range specified in New Value (see Example 2 below).

### Examples:

1. Object name is ABCDEFG and New Value is set to ZYX\* the resulting object name is ZYXDEFG.
2. Object name is AB and New Value is set to ZYX\* the resulting object name is ZYX.
3. Object date is 2000-03-26 and New Value is set to 2001\* the resulting object date is 2001-03-26.