

Using a Natural Data Source

This function enables you to generate an XML document from a data definition held in a Natural local, global or parameter data area.

The following topics are covered:

- Select Natural Data Area
- Select Root Group
- Generate File with DTD Definition
- Generate a parser for an XML document
- Show Generation Report

See also:

- Using a Document Type Definition as Data Source
 - Setting up Specific Generation Options
 - PF-Key Assignments
-

Select Natural Data Area

This screen serves to select LDA, GDA or PDA as input Data Area.

Note:

The entries shown in the dialogs below are default or example values.

```

08:07:48          ***** NATURAL XML Toolkit *****          2007-01-18
                   - Generate from Natural Data Structure -          Library SYSEXXT

Select LDA, GDA or PDA as input Data Area.

Press 'Next' to read the Data Area.

Select a Level 1 group that should be used for further generations.

Select Data Area for generation
Library:  Type: Name:
SYSEXXT_ L      _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit                               Next          Canc

```

Field Descriptions

Library

Belongs to Group:	Select Input Data Area
Format/Length:	A8
Default Value:	(All libraries)

Type

Belongs to Group:	Select Input Data Area
Format/Length:	A1
Possible Values:	L - Local Data Area A - Parameter Data Area G - Global Data Area

Name

Belongs to Group:	Select Input Data Area
Format/Length:	A8
Default Value:	(All objects of the selected library and type)

Press PF8 to continue.

Select Root Group

This screen is used to select the data type.

10:18:34	*** NATURAL XML Toolkit ***	2007-01-18
	- Select Root Group -	Library SYSEXXT
Root groups		
X EMPLOYEE		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		

Field Descriptions

Format/Length:	A1
Default Value:	(All groups on Level 1)

Mark the desired element, e.g. EMPLOYEE with an **X** and press ENTER .

Press PF8 to continue.

Generate File with DTD Definition

This screen serves to generate a file with the DTD definition of a given group.

```

11:14:49          ***** NATURAL XML Toolkit *****                2007-01-18
                    - Generate from Natural Data Structure -          Library SYSEXXT

Generate file with the dtd definition of a given group.

Specify a File Name and Press 'Next' to start the generation.

Press 'Next' to ignore this generation.

Select output for DTD file:
$NATDIR/$NATVERS/42/samples/sysexxt/empl.dtd_____

Serialize Copycode generation done.
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                               Prev  Next                               Canc

```

Format/Length:	A253
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Press PF8 to continue.

Generate a parser for an XML document

This screen is used to generate copycode as implementation for the serialization of the given group into an XML document.

```

10:56:06          ***** NATURAL XML Toolkit *****                2007-01-18
                    - Generate from Natural Data Structue -          Library SYSEXXT

Generate Copycode as implemation for the serialization of the given
group into a XML document.

Specify a Name and Press 'Next' to start the generation.

Press 'Next' to ignore this generation.

Select output for Serialize Copycode
Library:  Type:  Name:
SYSEXXT_ C   _____

Parse Copycode generation done.
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                               Prev  Next                               Canc

```

Generates the parser CALLBACK copycode. See also Parser CALLBACK Copycode (in the Examples document).

Field Descriptions

Library

Belongs to Group:	Select Output Copycode
Format/Length:	A8
Default Value:	(All libraries)

Type

Belongs to Group:	Select Output Copycode
Format/Length:	A21
Default Value:	Copycode

Name

Belongs to Group:	Select Output Copycode
Format/Length:	A8
Default Value:	(All objects of the selected library and type)

Press PF8 to continue.

Show Generation Report

After the generation is complete, the generation report is displayed.

```

11:48:29          ***** NATURAL XML Toolkit *****          2007-01-18
                   - Generate from Natural Data Structure -      Library SYSEXXT

Generation Results
Generate for Data Area
  Library ..: SYSEXXT
  Object ...: EMPL
  Read Data Area done.
Parser (Callback) Copycode
  Library ..: SYSEXXT
  Source ...: A1
  Parse Copycode generation done.
Serialize (Compress XML) Copycode
  Library ..: SYSEXXT
  Source ...: A2
  Serialize Copycode generation done.
File with dtd Definition
  File .....: $NATDIR/$NATVERS/42/samples/sysexxt/esi.dtd
  Generate DTD file.

Generation done.
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help           Exit                       Prev           Finis           Canc

```

Field Descriptions

Summary

Format/Length:	A253/1:v
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Press PF9 **Finis**(h) to end the generation process.