

Using an external Data Source

This function enables you to parse an XML document into a Natural variable defined in a local, global or parameter data area.

The following topics are covered:

- Generate from Document Type Definition
- Select Root Element
- Generate Natural Data Area
- Serialize into XML Document
- Generate Copycode
- Show Generation Results

See also:

- Using a Natural Data Area as Data Source
 - Setting up Specific Generation Options
 - PF-Key Assignments
-

Generate from Document Type Definition

This screen is used to select a Document Type Definition/Tamino Schema as input Document Type.

Note:

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

```

12:30:09          ***** NATURAL XML Toolkit *****          2007-01-19
                - Generate from Document Type Definition -          Library SYSEXXT

Select Document Type Definition/Tamino Schema as input Document Type.

Press 'Next' to read the Document Type.

Select a root element or Tamino Document Type that should be used
for further generations.

Select DTD/Tamino Schema for generation:
/nat_64/proj/natc/42/samples/sysexxt/empl.dtd_____

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

```

Field Descriptions

Input File

Format/Length:	A253
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Use Tamino 2.1.x Schema instead of DTD.

Press PF8 **Next** to continue.

Select Root Element

This screen is used to select an element that should be the root of your XML document.

```

12:42:17          *** NATURAL XML Toolkit ***          2007-01-19
                  - Select Root Element -              Library SYSEXXT

Element
X EMPLOYEE
_ FULL-NAME
_ FIRST-NAME
_ NAME
_ FULL-ADDRESS
_ ADDRESS-LINE
_ CITY
_ ZIP
_ COUNTRY
_ TELEPHONE
_ AREA-CODE
_ PHONE
_ JOB-TITLE
_ INCOME
_ SALARY

```

Field Descriptions

Root Element (for DTDs)

Default Value:	(All Elements)
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Mark the desired element, e.g. EMPLOYEE, with an **X** and press ENTER.

Generate Natural Data Area

This is used to generate a Natural Data Area with definition of a group that represents the XML document.

```

13:25:40          ***** NATURAL XML Toolkit *****          2007-01-19
                  - Generate from Document Type Definition -      Library SYSEXXT

Generate Data Area with definition of a group that represents
the XML document.

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

Press 'Next' to ignore this generation.

Select output LDA/GDA/PDA
Library:  Type: Name:
SYSEXXT_ L   A3_____

Generate Data Area.
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit                       Prev Next                               Canc

```

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:	L - Local Data Area

Name

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

Next to continue.

Serialize into XML Document

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

```

13:10:40          ***** NATURAL XML Toolkit *****          2007-01-19
                - Generate from Natural Data Structure -          Library SYSEXXT

Generate Copycode as implementation 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    A2_____

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

```

See also Serialize 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 **Next** to continue.

Generate Copycode

This screen is used to generate copycode as implementation for the XML Parser Callback for the given group.

```

13:02:32          ***** NATURAL XML Toolkit *****          2007-01-19
                - Generate from Document Type Definition -          Library SYSEXXT

Generate Copycode as implementation for the XML Parser Callback for the
given group.

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

Press 'Next' to ignore this generation.

Select output for Parse Copycode:
Library:  Type: Name:
SYSEXXT  C

Read DTD/Tamino Schema 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:	A1
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 Next to continue.

Show Generation Results

After the generation is complete, the generation results summary is displayed.

```

13:51:11          ***** NATURAL XML Toolkit *****          2007-01-19
          - Generate from Document Type Definition -          Library SYSEXXT

Generation Results
Generate for DTD/ino schema
  File .....: /nat_64/proj/natc/42/samples/sysexxt/empl.dtd
  Read DTD/Tamino Schema done.
Parser (Callback) Copycode
  Library ..: SYSEXXT
  Source ...: A1
  Parse Copycode generation done.
Serialize (Compress XML) Copycode
  Library ..: SYSEXXT
  Source ...: A2
  Serialize Copycode generation done.
Data Area
  Library ..: SYSEXXT
  Source ...: A3
  Data Area Generation done.

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.