

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 |
|-----------------------|------|

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) |
|-----------------------|----------------|

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 |
|-----------------------|----------|

Press PF9 **Finis**(h) to end the generation process.