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 Data Type
- Generate File with DTD Definition or XML Schema
- Generate a serializer for an XML document
- Generate a parser for an XML document
- Parameter Settings
- Select Root Group
- Show Generation Report

See also:

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

Select Natural Data Area

This dialog serves to select generation from a Natural Data Structure or a XML Schema or Document Type Definiton.

To invoke the dialog shown below

1. Activate the XML Plug-In in 'Tools' > 'Configuration Tools' > 'Plug-In Manager' > 'XML Toolkit'.

Or:

Alternatively choose the In button to open the Plug-In Manager.

2. Select 'Tools' > 'Development Tools' > ' XML Toolkit'.

Note:

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

🗏 Natural XML Toolk	it - Page 1 of 7	
NALURAL XVIL Teolkit	This wizard generates programs to handle XML data. A parser and serializer will be generated regarding the used data definition. Select generate from: • Natural Data Structure or • XML Schema or Document Type Definiton and continue with the Next button.	
g software ag	Generate from Natural Data Structure XML Schema or Document Type Definiton	
	Cancel <u>B</u> ack <u>N</u> ext	Fjnish

Choose if you would like to generate from a Natural Data Source or from a XML Schema or DTD.

Select Next to continue.

Field Descriptions

Library

Belongs to Group:	Select Input Data Area
Default Value:	(All libraries)

Type

Belongs to Group:	Select Input Data Area
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Name

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

Select Data Type

This dialog is used to select the data type.

🌿 Natural XML Toolk	it - Page 2 of 7	
NALURAL XML Toolkit	This wizard uses a Natural Data Area to create a DTD/XSD repesenting this data definition. For parsing and serializing this datastructure a Natural implementation is generated. Select LDA, GDA or PDA as input Data Area and continue with the Next button.	
g software ag	Select Input Data Area / from: NAT62 Library Type Name SYSXTK V Parameter Data Area V EMPLOYEE V	
	Cancel <u>B</u> ack <u>N</u> ext	Finish

Field Descriptions

Library

Belongs to Group:	Library
Default Value:	(All libraries)

Type

Belongs to Group:	Туре
Possible Values:	Local Data Area Parameter Data Area Global Data Area

Name

Belongs to Group:	Name
Default Value:	(All objects of the selected library and type)

Select the desired element, e.g. EMPLOYEE .

Choose Next to continue.

Generate File with DTD Definition or XML Schema

In this dialog you can specify a file name for the output data area.

🗏 Natural XML Toolki	t - Page 3 of 7	
natural	Generate a definition that represents the XML document. Specify a file name for the output data area or leave the file name empty to ignore this generation part.	
XML Toolkit	Continue with the Next button.	
	- Select local output file	
5 software ag	D:\Software AG\Natural\6.2\Fnat\SYSXTK\RES\empl.dtd	
	Cancel Rack Nort	Finish
		Fiusu

Choose **Next** to continue.

Generate a serializer for an XML document

🗏 Natural XML Toolk	it - Page 4 of 7	
natural	Generate a serializer implemention for the given a XML document. Specify a Natural library, file type and file name for the output source or leave the file name empty to ignore this generation part.	
XML Toolkit	Continue with the Next button.	
	Select Output / from: NAT62	
🖸 SOftware Ag	SYSXTK V Subprogram Vame	
	Cancel <u>B</u> ack <u>N</u> ext	Fjnish

This dialog is used to specify a Natural Library, file type and file name for the output source.

Field Descriptions

Library

Belongs to Group:	Library
Default Value:	(All libraries)

Type

Belongs to Group:	Туре
Possible Values:	Copycode
	Subprogram

Name

Belongs to Group:	Name
Default Value:	(All objects of the selected library and type)

Choose Next to continue.

Generate a parser for an XML document

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

🔏 Natural XML Toolk	it - Page 5 of 7	
natural	Generate a parser implemention for the given a XML document. Specify a Natural library, file type and file name for the output source or leave the file name empty to ignore this generation part.	
XML Toolkit	Continue with the Next button.	
g software ag	Select Output / from: NAT62 Library Type Name	
-	SISXIK V Subprogram]
	Cancel <u>B</u> ack <u>N</u> ext	Fjnish

Field Descriptions

Library

Belongs to Group:	Library
Default Value:	(All libraries)

Туре

Belongs to Group:	Туре
Possible Values:	Copycode
	Subprogram

Name

Belongs to Group:	Name
Default Value:	(All objects of the selected library and type)

Choose **Next** to continue.

Parameter Settings

🇏 Natural XML Toolkit	: - Page 6 of 7	
a a baa a b	Туре: А	<u> </u>
natural	Generate DTD/XSD data structure. DTD/XSD file:	
VM Teolkit	Type: DTD File: D:\Software AG\Natural\6.2\Fnat\SYSXTK\RES\empl.dtd	
	Generate serializer. Natural Object: Library: SYSXTK	
	Type: N Source: TEST	≡
	Generate parser. Natural Object: Library: SYSXTK Type: N	
g software ag	Source: TEST	>
	Cancel <u>B</u> ack <u>N</u> ext Finish	

This screen shows you the settings used for the generation process.

Choose **Next** to continue.

Select Root Group



In this dialog you can select the Root Group .

Choose **OK** to continue.

Show Generation Report

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

🗏 Natural XML Toolki	t - Page 7 of 7
NALURAL XML Toolkit	Generation Report Read Natural Data Area for generation. Natural Object: Library: SYSXTK Object: EMPLOYEE Type: A Generate DTD/XSD data structure. DTD/XSD file:
g software ag	Type: DTD File: D:\Software AG\Natural\6.2\Fnat\SYSXTK\RES\empl.dtd Generate serializer. Natural Object: Library: SYSXTK Type: N Source: TEST
	Cancel <u>B</u> ack <u>N</u> ext <u>Finish</u>

Choose **Finish** to end the generation process.