

XML Schema to IDL Mapping

- Extracting IDL from XML Schema
 - XML Schema Parameter Mapping
 - Extracting the Name for the IDL Library
 - Extracting the Name for the IDL Program
-

Extracting IDL from XML Schema

The IDL Extractor for XML Schema interprets the first root definition as the root element of the document. Optionally, you can enter a second XML Schema file for the OUT direction (the first one will be used as the IN direction instead of the IN-OUT direction). For the parameter mapping see table *XML Schema Parameter Mapping* below. The XML mapping and IDL parameter directions are IN (Request) and OUT (Response), no Fault mapping trees will be created, see *XML Schema Parser Standards Conformance*.

XML Schema Parameter Mapping

WSDL / XML Schema	XMM	Software AG IDL
binary, base64Binary	binary	BV (or BVn or Bn) ⁽³⁾
hexBinary ⁽¹⁾	binary	BV (or BVn or Bn) ⁽³⁾
boolean	boolean	L
date	date:yyyy-MM-dd ⁽²⁾	D
float	float	F4
double	float	F8
byte, unsignedByte	integer	I1
short, unsignedShort	integer	I2
int, unsignedInt	integer	I4
integer, positiveInteger, nonPositiveInteger, negativeInteger, nonNegativeInteger	number	N29.0
decimal, number	number	N22.7
long, unsignedLong	number	N19.0
time	dateTime:HH:mm:ss ⁽²⁾	T
dateTime	dateTime:yyyy-MM-dd'T'HH:mm:ss ⁽²⁾	T
gYearMonth	string	A8
gDay, gYear	string	A11
gMonth	string	A12
gMonthDay	string	A13
string (and all types not listed here)	string	AV (or AVn or An) ⁽³⁾

Notes:

1. The hexBinary format is not supported by the XML/SOAP Runtime.
2. Edit the date and dateTime patterns manually to match the formats of the original documents.

Example: <myTime xsi:type="xsd:date">11:08:23+01:00</myTime> -->
dateTime:HH:mm:ss' +01:00 ' --> T

Note:

The +01:00 is not supported by IDL (EntireX RPC protocol).

3. Mapped according to specified transformation rules. See *Step 6: Specify Options for Target Programming Language* in the IDL Extractor for WSDL documentation.

Extracting the Name for the IDL Library

The IDL library name (see `library-definition` under *Software AG IDL Grammar*) will be extracted from the source file name of the XML Schema (SOAP document).

Extracting the Name for the IDL Program

The IDL program name (see `program-definition` under *Software AG IDL Grammar*) will be extracted from each `<xsd:element>` (`xmlns:xsd="http://www.w3.org/2001/XMLSchema"`) level-one definition. Multiple IDL programs are possible.