

# XML Document to IDL Mapping

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## Extracting IDL from XML Document

The IDL Extractor for XML Document distinguishes between SOAP and pure XML. For XML documents, all parameters will be interpreted as strings and mapped according to specified transformation rules. See *Step 5: Specify Options for Target Programming Language*. SOAP documents, which contain  `xsi:type`  attributes, use the parameter mapping in the table *XML Schema Parameter Mapping* below. The IDL parameter directions are IN-OUT and the XML mapping directions are IN (Request) and OUT (Response), no Fault mapping trees will be created. If you try to import a SOAP Fault document, the document will be imported as a normal SOAP document.

## XML Schema Parameter Mapping

WSDL / XML Schema	XMM	Software AG IDL
binary, base64Binary	binary	BV (or BVn or Bn) <sup>(3)</sup>
hexBinary <sup>(1)</sup>	binary	BV (or BVn or Bn) <sup>(3)</sup>
boolean	boolean	L
date	date:yyyy-MM-dd <sup>(2)</sup>	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 <sup>(2)</sup>	T
dateTime	dateTime:yyyy-MM-dd'T'HH:mm:ss <sup>(2)</sup>	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) <sup>(3)</sup>

**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 document (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 the root tag of the XML document. If the document is SOAP dialect, the name of the first child element of the `<soapenv:Body>` (`xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"`) tag will be used.