

WSDL to IDL Mapping

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Extracting IDL from WSDL Files

The Software AG IDL Extractor for WSDL produces the IDL file and an XML mapping file. The SOAP-binding information is written into the XML mapping file (XMM), for example, the SOAPAction value and the namespace definitions. The two other bindings (HTTP and MIME) only return the IDL file, but no XML mapping file. In this case, a warning dialog is displayed. WSDL files with mixed bindings, including a SOAP binding, also return an XML mapping file, but display the warning message too. The XML mapping and IDL parameter directions depend on the WSDL source file; INERR and OUTERR mapping trees are possible.

Mapping WSDL XML Schema Data Type to Software AG IDL

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 used from the value of the name attribute of the tag `<service>`, for example:

```
<definitions ...>
  <service name="LIBRARYNAME">
    <port .../>
  </service>
</definitions>
```

Extracting the Name for the IDL Program

The RPC program name (see `program-definition` under *Software AG IDL Grammar*) will be used from the value of the name attribute of the tag `<operation>` as child of the tag `<portType>`, for example:

```
<definitions ...>
  <portType name="...">
    <operation name="PROGRAMNAME">
      <input .../>
      <output .../>
    </operation>
  </portType>
</definitions>
```