

Type Mapping

The **UML to XML Schema** mapping rules are as follows:

- Each UML class not derived from a built-in simple type (e.g. String) corresponds to an XML complex type.
- Each UML attribute of simple type (or derived from a simple type) corresponds to an XML attribute of the XML complex type defined by the containing UML class.
- Each UML attribute of a complex type is mapped to an XML element.

A consequence of this mapping is, that if a simple type can be switched from XML attribute to XML element representation by changing its UML presentation - being an UML attribute or association.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
  <Service xmlns="uri://bw.ubs.com/map">
    <Header UbsXmlStd="1.5" ServiceName="Util.GetInputForm" Entity="001" MsgLanguage="en"
Timestamp="20031121101841802000" BusnResult="Y" MessageId="RQKEADUKNMWDLAMB" SessionId="SQKEADUKNMWDLAMB">
      <Version Major="1" Minor="0" Patch="0"/>
      <SecurityContextList>
        <SecurityContext Index="0" UserType="1" UserId="t123797" SwSysId="XQ"
AudTrailId="-" Location="CH" AuthnStrength="W" AuthnTimeStamp="" Channel="" Zone="-"/>
        <SecurityContext Index="1" UserType="2" UserId="XQ" SwSysId="XQ" AudTrailId="-"
AuthnStrength="W" AuthnTimeStamp="-"/>
      </SecurityContextList>
    </Header>
    <Input>
      <Safe_Identification>
        <Account_Clearing_Number>0230</Account_Clearing_Number>
        <Agency_Code>00</Agency_Code>
        <Size_Code>04</Size_Code>
        <Safe_Status>1</Safe_Status>
      </Safe_Identification>
    </Input>
  </Service>
```

The definitions of more complex XML structures are defined in [XML Schema Import Rules](#).