

ORACLE FUSION MIDDLEWARE

Oracle B2B 11g Technical Note

Technical Note: 11g_005

Attachments

This technical note lists the attachment capabilities available in Oracle B2B

Table of Contents

<i>Overview</i>	2
<i>Setup for Fabric</i>	2
<i>Setup for JMS</i>	3
Send Attachment(s).....	3
AttachmentDescriptor.xsd	5

Overview

? Supported ?

- Generic HTTP
- ebXML Messaging Service (ebMS)
- Applicability Statement 1 (AS1)
- Applicability Statement 2 (AS2)
- RosettaNet Implementation Framework (RNIF)

Setup for Fabric

1. In the B2B Wizard check the attachment option in wizard. Note: Only available for Fabric, Not AQ or JMS. This creates the following structure in the WSDL

```
<?xml version="1.0" encoding="UTF-8" ?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns="http://integration.oracle.com/B2B/Attachments"
  targetNamespace="http://integration.oracle.com/B2B/Attachments"
  elementFormDefault="qualified">
  <xsd:element name="Attachments">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="Attachment" type="AttachmentType"
          minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:complexType name="AttachmentType">
    <xsd:attribute name="href" type="xsd:string" use="required"/>
  </xsd:complexType>
</xsd:schema>
```

2. Use Expression in "Assign "statement

- Example: ora:readBinaryFromFile('/b2b/demo1.tif')

Setup for JMS

Send Attachment(s)

This properly enables the user to add attachments.

Property: *jca.jms.JMSProperty.Attachment*

Example1: Single attachment | File

jca.jms.JMSProperty.Attachment=

```
<?xml version="1.0" encoding="UTF-8"?>
<Attachments
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="C:\b2b\AttachmentsDescriptor.xsd"
  boundary="boundary----">

  <AttachmentPart>
    <Location>file://c:\b2b\attachments\RI_PurchaseOrder.xml </Location>
    <Content-Type>
      <Discrete-type>text</Discrete-type>
      <Sub-type>plain</Sub-type>
      <Parameter Name="charset" Value="us-ascii"/>
    </Content-Type>
    <Content-Transfer-Encoding>7-bit</Content-Transfer-Encoding>
    <Content-ID/>
    <Content-Description/
  </AttachmentPart>

</Attachments>
```

Example2: Two attachments | File

```

<?xml version="1.0" encoding="UTF-8"?>
<Attachments
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="C:\b2b\AttachmentsDescriptor.xsd"
  boundary="boundary----">

  <AttachmentPart>
    <Location>file://c:\b2b\attachments\Product.jpeg</Location>
    <Content-Type>
      <Discrete-type>image</Discrete-type>
      <Sub-type>jpeg</Sub-type>
    </Content-Type>
    <Content-Transfer-Encoding>BASE64</Content-Transfer-Encoding>
    <Content-Description>A JPEG file</Content-Description>
  </AttachmentPart>

  <AttachmentPart>
    <Location>file://c:\b2b\attachments\OS_PurchaseOrder.xml</Location>
    <Content-Type>
      <Discrete-type>text</Discrete-type>
      <Sub-type>plain</Sub-type>
      <Parameter Name="charset" Value="us-ascii"/>
    </Content-Type>
    <Content-Transfer-Encoding>7-bit</Content-Transfer-Encoding>
    <Content-ID/>
    <Content-Description/>
  </AttachmentPart>

</Attachments>

```

Note: Legacy: jca.jms.JMSProperty.ACTION_NAME is NOT SUPPORTED.

AttachmentDescriptor.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:element name="Attachments">
    <xs:annotation>
      <xs:documentation>This element encapsulates the descriptions of the attachments that
        need to go out with a payload through Oracle B2B .</xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element name="AttachmentPart" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>This element contains the description of a single attachment;
              there can be many attachments that go out with a payload.</xs:documentation>
          </xs:annotation>
          <xs:complexType>
            <xs:sequence>
              <xs:choice>
                <xs:element name="Attachment" type="xs:base64Binary"
                  minOccurs="0">
                  <xs:annotation>
                    <xs:documentation>It is also possible to specify the actual attachment in base64
                      here. Or, it could be placed in some location, and the URI of the location
                      specified in the location element.</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="Location" type="xs:anyURI" minOccurs="0">
                  <xs:annotation>
                    <xs:documentation>This element contains a URI that points to the location of the
                      attachment.</xs:documentation>
                  </xs:annotation>
                </xs:element>
              </xs:choice>
            <xs:element name="Content-Type">
              <xs:annotation>
                <xs:documentation>This element specifies the Content-Type of the attachment.
                </xs:documentation>
              </xs:annotation>
            <xs:complexType>
              <xs:sequence>
                <xs:element name="Top-Level-Type" type="xs:string"/>
                <xs:element name="Sub-Type" type="xs:string">
                  <xs:annotation>
                    <xs:documentation>Specifies the sub-media type.</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="Parameter" minOccurs="0"
                  maxOccurs="unbounded">
                  <xs:annotation>
                    <xs:documentation>Allows the specification of parameter
                      name and value.</xs:documentation>
                  </xs:annotation>
                </xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

    </xs:annotation>
    <xs:complexType>
      <xs:attribute name="Name"/>
      <xs:attribute name="Value"/>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Content-Transfer-Encoding">
  <xs:annotation>
    <xs:documentation>This element specifies the transfer encoding
      format.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="BASE64"/>
      <xs:enumeration value="Quoted-Printable"/>
      <xs:enumeration value="8-bit"/>
      <xs:enumeration value="7-bit"/>
      <xs:enumeration value="Binary"/>
      <xs:enumeration value="X-token"/>
      <xs:enumeration value="BASE64"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="Content-ID" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Can be used to specify an optional content
      ID.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Content-Description" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Can be used to specify an optional content
      description.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
  <xs:attribute name="boundary"/>
</xs:complexType>
</xs:element>
</xs:schema>

```