

# ORACLE FUSION MIDDLEWARE

## Oracle B2B 11g Technical Note

### Technical Note: 11g\_004

### Interoperability capabilities

This technical note lists the AQ / JMS / Fabric properties and overrides used to communicate to / from Oracle B2B internally.

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## Parameters: AQ | JMS | Fabric

These parameters are use to communicate to/from Oracle B2B using AQ, JMS and Fabric.

Oracle AQ	Overloading	JMS	Fabric (In Memory)
MSG_ID		jca.jms.JMSProperty.MSG_ID	b2b.messageId
INREPLYTO_MSG_ID		jca.jms.JMSProperty.INREPLYTO_MSG_ID	b2b.replyToMessageId
FROM_PARTY		jca.jms.JMSProperty.FROM_PARTY	b2b.fromTradingPartnerId
		jca.jms.JMSProperty.FROM_PARTY_ID_TYPE	b2b.romTradingPartnerIdType
TO_PARTY		jca.jms.JMSProperty.TO_PARTY	b2b.toTradingPartnerId
		jca.jms.JMSProperty.TO_PARTY_ID_TYPE	b2b.toTradingPartnerIdType
DOCTYPE_NAME		jca.jms.JMSProperty.DOCTYPE_NAME	b2b.documentTypeName
DOCTYPE_REVISION		jca.jms.JMSProperty.DOCTYPE_REVISION	b2b.documentProtocolVersion
ACTION_NAME		jca.jms.JMSProperty.ACTION_NAME	b2b.action
MSG_TYPE		jca.jms.JMSProperty.MESSAGE_TYPE	b2b.messageType
			b2b.documentDefinitionName
			b2b.documentProtocolName
PAYLOAD			Assigned in composite
ATTACHMENT		jca.jms.JMSProperty.ATTACHMENT	Assigned in composite
ACTION_NAME (Above)	SERVICE	jca.jms.JMSProperty.SERVICE	b2b.ebms.Service
	SERVICETYPE	jca.jms.JMSProperty.SERVICE TYPE	b2b.ebms.ServiceType
	FROMROLE	jca.jms.JMSProperty.FROMROLE	b2b.ebms.FromRole
	TOROLE	jca.jms.JMSProperty.TOROLE	b2b.ebms.ToRole
	CPAID	jca.jms.JMSProperty.CPAID	b2b.ebms.CPAId
	ACTION	jca.jms.JMSProperty.ACTION	b2b.ebms.Action
	CONVERSATION_ID	jca.jms.JMSProperty.CONVERSATION_ID	b2b.conversationId
	<b>EMAILSUBJECT</b>	<b><i>jca.jms.JMSProperty.EmailSubject</i></b>	<b><i>b2b.toEmailSubject</i></b>
	<b>DYNAMICEMAIL</b>	<b><i>jca.jms.JMSProperty.DynamicEmail</i></b>	<b><i>b2b.toDynamicEmail</i></b>
	<b>CC</b>	<b><i>jca.jms.JMSProperty.CC</i></b>	<b><i>b2b.CC</i></b>
	<b>FILENAME</b>	<b><i>Planned</i></b>	<b><i>b2b.fileName</i></b>
	<b>CONTENTTYPE</b>	<b><i>Planned</i></b>	<b><i>b2b.contentType</i></b>
	<b>GROUPING</b>	<b><i>Planned</i></b>	<b><i>b2b.toTradingPartnerGroup</i></b>
	<b>TARGET</b>	<b><i>Planned</i></b>	<b><i>b2b.sequencingTarget</i></b>
	<b>CONNMODE</b>	<b><i>Planned</i></b>	<b><i>b2b.connMode</i></b>
	<b>CUSTOMHEADER</b>	<b><i>Planned</i></b>	<b><i>b2b.customHeader</i></b>
	<b>DYNAMICIP</b>	<b><i>Planned</i></b>	<b><i>b2b.toDynamicIP</i></b>
<b>CONVERSATIONIDSEPERATOR</b>	<b><i>Planned</i></b>	<b><i>b2b.conversationIdSeperator</i></b>	

## Overriding Parameters: Descriptions

Feature	Description	Use
DynamicIP	Override default MLLP / TCP/IP IP & port	MLLP, TCP/IP
DynamicEMail	Override default eMail	Generic Email
EmailSubject	Override default Subject	Generic Email
CC	Email CC	Generic Email
FileName	Use for AS2 Filename preservation	AS2
ContentType	Set context type, in conjunction with filename	AS2
Grouping	A document can broadcasted to a group of partners	All protocols
Target	Messages sequenced under this group (MLLP / TCP/IP)	MLLP, TCP/IP
Action	Supplies ebMS Action for identification	ebMS
Service	Supplies ebMS Service for identification	ebMS
ServiceType	Supplies ebMS Service Type for identification	ebMS
FromRole	Supplies ebMS From Role for identification	ebMS
ToRole	Supplies ebMS To Role for identification	ebMS
CPAId	Supplies ebMS CPAId for identification	ebMS
Override ConnectionMode	Overriding ConnectionMode	MLLP
CustomHeader	Custom Header	

Note: The following parameters are outbound only

- EMAILSUBJECT
- DYNAMICEMAIL
- CC
- FILENAME
- CONTENTTYPE
- GROUPING
- TARGET
- CONNMODE
- CUSTOMHEADER
- DYNAMICIP
- CONVERSATIONIDSEPERATOR
- ATTACHMENT

## Oracle AQ

To send the required properties when using Oracle AQ use the following:

### jca.aq.HeaderDocument=

```
'<?xml version = "1.0" standalone = "yes"?>
<tns:Header xmlns:tns="http://www.w3.org/2001/XMLSchema">
  <tns:PayloadHeader>
    <MSG_ID></MSG_ID>
    <INREPLYTO_MSG_ID></INREPLYTO_MSG_ID>
    <FROM_PARTY>OracleServices</FROM_PARTY>
    <TO_PARTY>RetailInc</TO_PARTY>
    <ACTION_NAME></ACTION_NAME>
    <DOCTYPE_NAME>ORDERS</DOCTYPE_NAME>
    <DOCTYPE_REVISION>D98A</DOCTYPE_REVISION>
    <MSG_TYPE>1</MSG_TYPE>
    <PAYLOAD></PAYLOAD>
    <ATTACHMENT></ATTACHMENT>
  </tns:PayloadHeader>
</tns:Header>'
```

## Information required to send a message to Oracle B2B from the middleware

- General
  - MSG\_ID Will auto generate but best practice is to send
  - INREPLYTO\_MSG\_ID If a Response
  - FROM\_PARTY
  - TO\_PARTY
  - DOCTYPE\_NAME
  - DOCTYPE\_REVISION
  - MSG\_TYPE 1: Request, 2: Response, 9: Acknowledgment
- ebXML
  - CPAId
  - Action
  - Service
  - ServiceType
  - FromRole Optional
  - ToRole Optional
- In 10g the ACTION\_NAME was use to send instructions to Oracle B2B

## EDI: Overriding outbound Envelope: ISA/UNB, GS/UNG, ST/UNH

The XML Schema generated by the Document Editor contains “Internal Properties” that enables a user to override the defaults, in Oracle B2B, that are used to generate the envelope for outbound transaction sets

Every XSD generated by the Document Editor has this structure. Note: only relevant items are shown.

Structure	Property (sample)
Transaction-850	
Standard	X12
Version	V4010
GUID	{12345678-1234-1234-1234-123456789012}
Internal-Properties	
Data-Structure	
Name	Interchange
Property	OracleServices
Name	InterchangeSenderID
Data-Structure	
Name	Group
Property	OracleServices
Name	GroupSenderID
Data-Structure	
Name	Transaction
Property	850
Name	TransactionID

### Notes:

- Standard, Version & GUID are Mandatory
- If you use the Internal-Properties then all three Data-Structures (Interchange, Group & Transaction) MUST be assigned
- Addition property Name / Property values can be added as required

**Example XML**

```
<?xml version="1.0" ?><Transaction-850
xmlns:ns0="urn:oracle:integration:b2b:C74D8162BEC44EDB8DD779345A244626"
Standard="X12" Version="V4010" GUID="{12345678-1234-1234-1234-123456789012}"
xmlns="urn:oracle:integration:b2b:C74D8162BEC44EDB8DD779345A244626">

  <ns0:Internal-Properties>

    <ns0:Data-Structure Name="Interchange">
      <ns0:Property Name="InterchangeSenderID">OracleServices</ns0:Property>

      <ns0:Data-Structure Name="Group">
        <ns0:Property Name="GroupSenderID">OracleServices</ns0:Property>

        <ns0:Data-Structure Name="Transaction">
          <ns0:Property Name="TransactionID">850</ns0:Property>
        </ns0:Data-Structure>

      </ns0:Data-Structure>
    </ns0:Data-Structure>
  </ns0:Internal-Properties>

  <ns0:Segment-ST Type="">
  ...
```

**X12 Property Names**

<b>Data Structure Name - Interchange</b>	
<b>Property Name</b>	<b>Property (sample)</b>
InterchangeAuthorizationInfoQual	00
InterchangeAuthorizationInfo	
InterchangeSecurityInfoQual	00
InterchangeSecurityInfo	
InterchangeSenderQual	ZZ
InterchangeSenderID	ORACLESERVICES
InterchangeReceiverQual	ZZ
InterchangeReceiverID	MARKETINC
InterchangeDate	041216
InterchangeTime	
InterchangeControlStandard_RepeatingSeparator	U
InterchangeControlVersion	00400
InterchangeControlNumber	000001688
InterchangeAckRequested	0
InterchangeUsageIndicator	P
InterchangeComponentElementSep	0x7d
DecimalSeparator	0x2e
ElementDelimiter	0x7e
ReleaseCharacter	
RepeatingSeparator	0x2e
SegmentDelimiter	0x7e
SubelementDelimiter	0x7d
InterchangeChildCount	1
InterchangeTrailerControlNumber	000001688

**X12 Property Names**

<b>Data Structure Name - Group</b>	
<b>Property Name</b>	<b>Property (sample)</b>
GroupID	PO
GroupSenderID	ORACLESERVICES
GroupReceiverID	MARKETINC
GroupDate	20041216
GroupTime	1900
GroupControlNumber	1695
GroupAgencyCode	C
GroupVersionNumber	00400
GroupChildCount	1
GroupTrailerControlNumber	1695

**X12 Property Names**

<b>Data Structure Name - Transaction</b>	
<b>Property Name</b>	<b>Property (sample)</b>
TransactionID	850
TransactionControlNumber	16950001
TransactionImplementationReference	
TransactionChildCount	23
TransactionTrailerControlNumber	6950001

**UN/EDIFACT Property Names**

<b>Data Structure Name - Interchange</b>	
<b>Property Name</b>	<b>Property (sample)</b>
CharSet	UNOA
InterchangeControlVersion	2
InterchangeSenderID	ORACLESERVICES
InterchangeSenderQual	ZZ
InterchangeSenderAddress	
InterchangeReceiverID	MARKETINC
InterchangeReceiverQual	ZZ
InterchangeReceiverAddress	
InterchangeDate	070223
InterchangeTime	1027
InterchangeControlNumber	9158
InterchangeRecipientRefPas	
InterchangeRecipientRefPasQual	
InterchangeAppReference	00400
InterchangePriorityCode	000001688
InterchangeAckRequested	0
InterchangeAgreementID	P
InterchangeUsageIndicator	
DecimalSeparator	0x2e
ElementDelimiter	0x2b
ReleaseCharacter	0x3f
RepeatingSeparator	
SegmentDelimiter	0x27
SubelementDelimiter	0x3a
InterchangeChildCount	1
interchangeTrailerControlNumber	9158



**UN/EDIFACT Property Names**

<b>Data Structure Name - Group</b>	
<b>Property Name</b>	<b>Property (sample)</b>
GroupID	ORDERS
GroupSenderID	ORACLESERVICES
GroupSenderQual	ZZ
GroupReceiverID	MARKETINC
GroupReceiverQual	ZZ
GroupDate	20070613
GroupTime	1456
GroupControlNumber	34302048001000
GroupControllingAgency	UN
GroupVersion	D
GroupReleaseNumber	98A
GroupAssociationAssignedCode	DEBL02
GroupAppPassword	
GroupChildCount	1
GroupTrailerControlNumber	34302048001000

**UN/EDIFACT Property Names**

<b>Data Structure Name - Transaction</b>	
<b>Property Name</b>	<b>Property (sample)</b>
TransactionID	ORDERS
TransactionControllingAgency	UN
TransactionMessageVersionNumber	D
TransactionMessageReleaseNumber	98A
TransactionAssociationAssignedCode	PO
TransactionCommonAccessRef	
TransactionTransferSequence	
TransactionTransferIndicator	
TransactionChildCount	89
TransactionTrailerControlNumber	12891