

ORACLE FUSION MIDDLEWARE

Oracle B2B 11g Technical Note

Technical Note: 11g_002

File/ FTP capabilities

This technical note describes the default and overriding parameters for outbound filename generation and inbound partner / message identification when using the File / FTP capabilities in Oracle B2B.

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Introduction

When sending a message to Oracle B2B using File/FTP you must.

Identifying the Agreement

In business-to- business communication there is an Agreement. The process of authentication / authorization requires:

1. Identifying the partner
2. Identifying the message
3. Identifying the agreement is the partner / message pair

Note: There are defaults and overriding parameters for this process.

Outbound: Creating the filename

There are defaults and overriding parameters to construct the filename

There are three types of delivery channels for inbound and outbound messages

- **Listening:** For messages to Oracle B2B (internal or external not in the agreement)
- **Host:** For messages from Oracle B2B (internal or external)
- **Partner:** For messages to a specific Partner

External Listening Channel: Inbound

Oracle B2B receives the message from a Partner.

In the business-to-business process there is an Agreement. The process of authentication / authorization requires identifying the Partner, identifying the message and then, associating that pair to the agreement.

The “Default” when there is no format.

Partner Identification

Identify the Partner from the filename. If the partner cannot be identified then the directory name is checked. Defaults are:

- Filename *%FROM_PARTY%_*.dat*
SalesInc_1234.dat
- Directory name *%FROM_PARTY%*
C:\SalesInc
C:\b2b\SalesInc

Message Identification

Identify the message using, XPath | Positional | Message Headers | Envelope, depending on the protocol.

- XML: XPath
- Positional Positional Value
- EDI From document
- HL7 From document

External Partner / Host Channel: Outbound

Oracle B2B sends the message. Default when there is no format.

Note:

An external File/FTP channel under the HOST with the parameter “*Internal=false*” can be configured and then shared across multiple Partners. It would be set in the Agreement using the delivery channel for the Remote Partner

Creating the filename

- Filename *%FROM_PARTY%_%TIMESTAMP%.dat*
- Example *OracleServices_2010Aug02_08_41_00_109_306_042.dat*

File and Directory Name Formats to override default

The Filename and Directory name formats are exclusive and cannot be used together. If both are configured then "Filename Format" will take precedence over the "Directory Name Format".

These parameters refer to the metadata in the repository

- Internal / External
 - %FROM_PARTY%
 - %TO_PARTY%
 - %DOCTYPE_NAME%
 - %DOCTYPE_REVISION%
 - %MSG_ID%
 - %TIMESTAMP%
 - %ACTIONNAME%
 - %MSG_TYPE%
 - %CPAID%
- Internal Only
 - %INREPLYTO_MSG_ID%
 - %SERVICE%
 - %CONVERSATION_ID%
- The wildcard is the asterisks '*'

Filename Format Examples

- **Partner and message Identification (Listening Channel)**

The required information to identify both the partner and message is in the filename.

Format %FROM_PARTY%_
 %DOCTYPE_NAME%_
 %DOCTYPE_REVISION%_*.xml

Filename MarketInc_850_4010_123.xml

Note: If the received filename does not match the format then the defaults are used.

- **File naming (Host / Partner Channel)**

Using these parameters the filename will have the following syntax

Format %FROM_PARTY%_
 %DOCTYPE_NAME%_
 %DOCTYPE_REVISION%_
 %TIMESTAMP%_*.dat

Filename SalesInc_850_4010_2_1234_1234.dat

Directory Name Format

- **Partner and message Identification (Listening Channel)**

The required information to identify both the partner and message is in the directory name

Format %FROM_PARTY%_
 %DOCTYPE_NAME%_
 %DOCTYPE_REVISION%

Directory C:**MarketInc_850_4010**
 C:\b2b**MarketInc_850_4010**

Note: Directory name format support is NOT available for "Internal Channels".

Internal Listening Channel

Oracle B2B receives the message from an internal source.

“Best Practice” is to use in-memory (Fabric) with the SOA Suite or the default JMS Queues: if using File or FTP then:

Oracle B2B receives a message (Listening Channel)

This is a predefined format that cannot be changed. Depending on if you are sending a request or a response the filename MUST conform to one the following formats:

- Inbound to Oracle B2B (Request): You are sending a messages
 - Format:
 - `%TO_PARTY%_`
 - `%DOCTYPE_NAME%_`
 - `%DOCTYPE_REVISION%_`
 - `%MSG_TYPE%_`
 - `%MSG_ID%`
 - Filename example: *SalesInc_850_4010_1_1234.dat*
- Inbound to Oracle B2B (Response): You are sending a response (EDI 997, CONTRL...)
 - Format:
 - `%TO_PARTY%_`
 - `%DOCTYPE_NAME%_`
 - `%DOCTYPE_REVISION%_`
 - `%MSG_ID%_`
 - `%INREPLYTO_MSG_ID%`
 - `%MSG_TYPE%_`
 - Filename example:: *SalesInc_850_4010_2_1234_4321.dat*

Note:

- Filename & Directory formats **CANNOT** be used in this context.
- File extension is ignored
- %MSG_TYPE% values
 - 1 - Request
 - 2 - Response
 - 9 - Acknowledgement

Internal Host Channel

- **Oracle B2B sends the message to the middleware.**

Note:

An external File/FTP channel under the HOST with the parameter “*Internal=false*” can be configured and then shared across multiple Partners. It would be set in the Agreement using the delivery channel for the Remote Partner

Format: %FROM_PARTY%_
 %DOCTYPE_NAME_
 %DOCTYPE_REVISION%_
 %MSG_TYPE_
 %MSG_ID%.dat

Filename: SalesInc_850_4010_1_90198E6112A33637E02000001744CBB0-1.dat

- **File naming (Partner Channel)**

Using the parameters the filename will have the following syntax

Format: %FROM_PARTY%_
 %DOCTYPE_NAME%_
 %DOCTYPE_REVISION%_
 %TIMESTAMP%_*.dat

Filename: SalesInc_850_4010_2_1234_1234.dat

Note: Only Filename formats CAN be used

Reference

The configuration screens are the same for inbound / outbound but the type of channels determines the direction. Refer to User Guide for details on each parameter.

- Listening Channels: Inbound
- Host Channels: Outbound
- Partner channels: Outbound

File: Channel parameters

Transport Protocol: File

Transport Protocol Parameters | Channel Attributes

Polling interval	<input type="text" value="5"/>	Preserve Filename	<input type="checkbox"/>
* Folder name	<input type="text" value="c:\b2b\in_oradeservices"/>	Enable Marker	<input type="checkbox"/>
Filename format	<input type="text" value="%TO_PARTY%_%DOCTYPE_NAME"/>		
Directory name format	<input type="text"/>		
Minimum Age	<input type="text"/>		
Archival Directory	<input type="text" value="c:\b2b\archive"/>		

Transport Protocol: File

Transport Protocol Parameters | **Channel Attributes**

Retry Interval	<input type="text" value="60"/>	Transport Callout	▼
Retry Count	<input type="text" value="2"/>		
Description	<input type="text"/>		

FTP/ FTPs: Channel parameters

Transport Protocol **FTP**

Transport Protocol Parameters **Channel Attributes**

*Host name	<input type="text" value="jshutchi-us.us.oracle.com"/>	Data port	<input type="text" value="21"/>	Transfer Type	Binary
Polling interval	<input type="text" value="5"/>	Use proxy	<input type="checkbox"/>	Is Van Mailbox	<input type="checkbox"/>
*Folder name	<input type="text" value="b2b/my_files"/>	Filename format	<input type="text"/>	Enable CCC	<input type="checkbox"/>
*User name	<input type="text" value="b2buser"/>	Directory name format	<input type="text"/>	Cache Connections	<input type="checkbox"/>
Password	<input type="password" value="....."/>	Encoding	<input type="text"/>	Enable Marker	<input type="checkbox"/>
ConfirmPassword	<input type="password" value="....."/>	Minimum Age	<input type="text"/>	TimeStamp Format	<input type="text"/>
Channel mask	None	Archival Directory	<input type="text" value="c:\b2b\archive"/>	TimeStamp Offset	<input type="text"/>
Cipher suites	<input type="text"/>	Preserve Filename	<input type="checkbox"/>	TimeStamp Source	<input type="text"/>
Control port	<input type="text" value="20"/>				

Transport Protocol **FTP**

Transport Protocol Parameters **Channel Attributes**

Retry Interval	<input type="text" value="60"/>	Transport Callout	<input type="text"/>
Retry Count	<input type="text" value="2"/>		
Description	<input type="text"/>		

sFTP: Channel parameters

Transport Protocol **SFTP**

Transport Protocol Parameters Channel Attributes

* Host name	jshutchi-us.us.oracle.com	ConfirmPassword	••••••	Directory name format	
* Port number	22	Private key		Minimum Age	
Polling interval	5	Pass phrase		Archival Directory	c:\b2b\archive
* Path	b2b/my_files	ConfirmPass phrase		Preserve Filename	<input type="checkbox"/>
* User name	b2buser	Use proxy	<input type="checkbox"/>	Enable Marker	<input type="checkbox"/>
Password	••••••	Filename format			

Transport Protocol **SFTP**

Transport Protocol Parameters Channel Attributes

Retry Interval	60	Transport Callout	▼
Retry Count	2		
Description			