ORACLE FUSION MIDDLEWARE
Oracle B2B 11g Technical Note

Technical Note: 11g_005
Command-Line Utilities

This technical note lists the Command-line utilizes available to manage for Oracle B2B

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Setup

Prerequisites

1. To execute these command first set the environment variables;

   - ORACLE_HOME
   - ANT_HOME
   - JAVA_HOME

   Example

   - set ORACLE_HOME=C:\oracle\wls_home
   - set ANT_HOME=%ORACLE_HOME%\modules\org.apache.ant_1.7.1
   - set JAVA_HOME=%ORACLE_HOME%\jdk160_18

2. Create the jndi.properties file (Refer to utility details)

Refer to:

Oracle® Fusion Middleware User's Guide for Oracle B2B
11g Release 1 (11.1.1 Part Number E10229-04)
http://download.oracle.com/docs/cd/E14571_01/integration.1111/e10229/toc.htm

18 Oracle B2B Command-Line Tools
http://download.oracle.com/docs/cd/E14571_01/integration.1111/e10229/scrpt_imp_exp_dep.htm#CEGBDIDB

jndi.properties Utility

The purpose of this utility is to create the jndi.properties for password protection of the command-line utilities

b2bcreate-prop Utility

- cd $ORACLE_HOME/bin

- ant -f ant-b2b-util.xml b2bcreate-prop
  - This will create the jndi.properties.

- Edit file and include weblogic password

Manage Key Store Utility

Certificate expiry has to be identified and notified to the Administrator as it affects the message flow with security. Oracle B2B has exposed Public API/Ant command to check the certificate for expiry. Users can define a schedule and encapsulate these API for proper Alert mechanism.

b2bmanagekeystore Utility Parameters

Parameter	Description	Value	Required
mode	List certificate alias in the keystore and its expiry dates	list	N
Alias	Certificate status and its expiry date of the provided alias		N
days	List certificates which will expire within the days specified	integer	N

Examples

- Get the list of certificate alias:
    ant -f ant-b2b-util.xml b2bmanagekeystore
    -Dmode=list

- Get the status of the certificate:
    ant -f ant-b2b-util.xml b2bmanagekeystore
    -Dalias="MarketInc_Cert"

- Get list of certificates expiring on future date
    ant -f ant-b2b-util.xml b2bmanagekeystore
    -Ddays=15

    Note:
        Pre-requisite, it is required to configure the java key store in B2B

Validation Utility

The purpose of this utility is to validate B2B metadata that includes agreements, partners, and documents. All agreements will be validated, if no Parameter specified.

b2bvalidate Utility Parameters

Parameter	Description	Value	Required
args	Filenames of the • Partner • Agreement • Document protocol	File names has to be comma separated. /soa/b2b prefix is not mandatory	No

Examples

- Validate all agreements:

  ant -f ant-b2b-util.xml b2bvalidate

- Validate agreement tpa_ID1234.xml

  ***ant -f ant-b2b-util.xml b2bvalidate
  -Dargs**="/soa/b2b/tpa_ID1234.xml"*

- Validate agreement tpa_ID1234.xml

  ***ant -f ant-b2b-util.xml b2bvalidate
  -Dargs**="tpa_ID1234.xml"*

- Validate Partner tp_MyCompany.xml and agreement tpa_ID1234.xml

  ***ant -f ant-b2b-util.xml b2bvalidate
  -Dargs**="tp_MyCompany.xml, tpa_ID1234.xml"*

Check CPA Utility

The purpose of this utility is to enable the user to check the availability of an agreement for a given CPAID and trading partner. Based on the result, the user can import the agreement with option overwrite=True/False.

b2bcheckcpaid Utility Parameters

Parameter	Description	Value	Required
args	Oracle B2B metadata file	null	Yes

> ***ant –f ant-b2b-util.xml b2bcheckcpaid***
> ***–Dargs="my_file.zip"***

Deployment Utility

The purpose of this utility is to deploy validated agreements.

Note: To turn off validation set Oracle B2B system property "***b2b.deploy.validation"*** to false.

b2bdeploy Utility Parameters

Parameter	Description	Value	Required
tpanames	1< M agreement names	agreement names separated by commas	No

Examples

- Deploy all agreements in repository.

  > ***ant -f ant-b2b-util.xml b2bdeploy***

- Deploy agreement OracleServices_001_Agr and MarketInc_001_Agr

  > ***ant -f ant-b2b-util.xml b2bdeploy***
  > ***-Dtpanames**="OracleServices_001_Agr, MarketInc_001_Agr"*

Export Utility

The purpose of this utility is to export metadata from the Oracle B2B repository. If no parameters then the entire repository is exported

b2bexport Utility Parameters

Parameter	Description	Value	Required
tpanames	• 1<M Agreements • If multiple agreements exported zip file will have equal # of zip files	Agreement names separated by commas	No

tpname	• Partner will be exported.
	  o Policy details (user/role)
	  o Supported Doc Def details truncated
	  o Any tpname, tpanames, or policies
		Partner names separated by commas	No

exportfile	Location to write of metadata zip file	/tmp/export.zip (default)	No
active	• Export agreements active state • Used only with tpanames	true false (default)	No
policies	Exports entire repository with user/role details, if policies=true	true false (default)	No
localfile	Set to true if export file location exists on same server	true false (default)	No

Examples

- Export entire repository without policy details to "/tmp/export.zip"

  > ***ant -f ant-b2b-util.xml b2bexport***

  or

  > ***ant -f ant-b2b-util.xml b2bexport***
  > ***-Dexportfile**="/tmp/export.zip"*

- Export entire repository with policy details to /tmp/export.zip

  > ***ant -f ant-b2b-util.xml b2bexport***
  > ***-Dexportfile**="/tmp/export.zip"*
  > ***-Dpolicies**=true*

- Export entire repository w/o details to /tmp/exportinserver.zip on same server.

  > ***ant -f ant-b2b-util.xml b2bexport***
  > ***-Dexportfile**="/tmp/exportinserver.zip"*
  > ***-Dlocalfile**=true*

- Export Partner OracleServices to /tmp/OracleServices.zip

  ant -f ant-b2b-util.xml b2bexport
  -Dtpname*="OracleServices"*
  -Dexportfile*="/tmp/OracleServices.zip"*

- Export an agreement from design time with listening channel details to /tmp/OracleServices_001.zip. Listening channels will be deactivated, while exporting.

  ant -f ant-b2b-util.xml b2bexport
  -Dtpanames*="OracleServices_001_Agr"*
  -Dexportfile*="/tmp/OracleServices_001.zip"*

- Export multiple deployed and active agreements to /tmp/export.zip. No listening channels will be exported.

  ant -f ant-b2b-util.xml b2bexport
  -Dtpanames*="OracleServices_001_Agr, MarketInc_001_Agr"*
  -Dactive*=true*

Import Utility

The purpose of this utility is to import the B2B metadata file into the repository. Only Basic validation will be performed.

b2bimport Utility Parameters

Parameter	Description	Value	Required
exportfile	location of the export file(.zip file)		Yes
overwrite	Overwrite existing business elements if present.	true false (default)	No
localfile	If the export file location exists in server then set this to true.	true false (default)	No

Example

- import data from export.zip with overwrite=false

  ant -f ant-b2b-util.xml b2bimport
  -Dlocalfile=*true*
  -Dexportfile=*"/tmp/export.zip"*

Note:

The "Overwrite" parameter MUST be set to "true" when importing a B2B metadata file generated by the CPA/CPP Utility.

Why? To optimize the performance, which includes validation of the ebMS Service Header against the Collaboration-Protocol Agreement (CPA) Oracle B2B creates an index out of CPA and stores this index in the Document Type parameters.

The attributes for the validation and that define the uniqueness of each document are: Action, Service, ServiceType, FromRole, ToRole, CPAId. The behavior is:

- "Overwrite=true"
  - The index is built/re-built
  - All other artifacts are overwritten
- "Overwrite=false"
  - The index is NOT built/re-built
  - Artifacts with a different name are appended
- Certificates
  - No impacts, certificates are external to Oracle B2B in a JKS file.

ebXML CPP/CPA Utilities

The purpose of these utilities is to covert to/from a standard ebXML CPA file in the Oracle B2B metadata.

b2bcreate-cpaprop Utility

The purpose of this utility is to create property file template that can be customizes and then used to supply parameters for utilities:
- b2bcpaimport
- b2bcpaexport

Template file variables

Parameter Prefix: oracle.tip.b2b.ebms.	Value	Description
OutputFolder	/output/	CPA Output files
Document	/output/soa.zip	CPA Export: B2B Metadata
Document	/input/cpa.xml	CPA Import: File
Host	<Partner>	Host Name
HostEndPoint	http://<hostName>:<port>/b2b/httpReceiver	Host endpoint
HostCertificateAlias	<Host>	Host Certificate Alias
TPCertificateAlias	<Partner>	Partner Certificate Alias
BPSSExport	true	false	BPSS Export
LogFolder	/output/log/	Log Folder
LogLevel		DEBUG	INFO	ERROR
LogType		text	xml

Example "import" cpp_cpp.properties

> *oracle.tip.b2b.ebms.Document=/tmp/input/oracle_cpa.xml*
> *oracle.tip.b2b.ebms.OutputFolder=/tmp/output/*
>
> *oracle.tip.b2b.ebms.LogLevel=DEBUG*
> *oracle.tip.b2b.ebms.LogFolder=/tmp/output/log/*
> *oracle.tip.b2b.ebms.LogType=text*

b2bcpaimport Utility

The purpose of this utility is to convert a standard ebXML CPA file to Oracle B2B metadata file.

Parameter	Description	Value	Required
propfile	Property file which stores configuration	*cpp_cpa.properties*	Yes
standard	Way to import the cpa in an optimized mode	true false (default)	No

b2bcpaexport Utility

- The purpose of this utility is to convert the Oracle B2B metadata file (.ZIP) to an ebXML standard cpa.xml

Parameter	Description	Value	Required
propfile	Property file which stores configuration	*cpp_cpa.properties*	Yes
standard	Way to export the cpa in an optimized mode	true false (default)	No

Examples

- Create cpp_cpa.properties file, where this command get run.

  ant -f ant-b2b-util.xml b2bcreate-cpaprop

- Convert a standard ebXML CPA xml file to an Oracle B2B metadata file.

  ant -f ant-b2b-util.xml b2bcpaimport
  ***-Dpropfile**="/tmp/cpp_cpa.properties"*
  ***-Dstandard**=true*

- Convert an Oracle B2B metadata file to a standard ebXML CPA xml file.

  ant -f ant-b2b-util.xml b2bcpaexport
  ***-Dpropfile**="/tmp/cpp_cpa.properties"*
  ***-Dstandard**=true*

Purge Utility

The purpose of this utility is to purge design or runtime data from the B2B repository.

b2bpurge Utility Parameters

Parameter	Description	Value	Required
mode	Runtime: • Msgstate • Fromdate • Todate • purgecontrolnumber Design time: • TP: host	DT RT	No
fromdate	• In double-quotes • dd/mm/yyyy hh:mm AM/PM		No
todate	• In double/quotes • dd/mm/yyyy hh:mm AM/PM		No
msgstate	• Deletes all messages with message state • If msgstate used then start / end date required	MSG_COMPLETE MSG_ERROR MSG_WAIT_TRANSMIT MSG_WAIT_FA MSG_WAIT_BATCH	No
tp	partner name		No
direction		INBOUND OUTBOUND	No
msgtype	Type of the message		No
agreement	Name of the agreement		No
agreementid	CPAID for a Trading Partner		no
idtype	Identification type		No
idvalue	Identification value		No
archive	Archive	true (Default)	false	No
archivename	Archived filename		No
purgecontrolnumber	delete EDI Control Numbers	true	false (Default)	No
cascadedelete	Purges associate document (Type / Def) if not uses by another partner	true	false (Default)	No

Examples

- Purges all design and runtime data. The environment is reset to install time.

    ant -f ant-b2b-util.xml b2bpurge

- Purges all design data.

    ant -f ant-b2b-util.xml b2bpurge
    ***-Dmode**=DT*

- Purges all runtime data

    ant -f ant-b2b-util.xml b2bpurge
    ***-Dmode**=RT*

- Purges all runtime data including the control numbers

    ant -f ant-b2b-util.xml b2bpurge
    ***-Dmode**=RT*
    ***-Dpurgecontrolnumber**=true*

- Purges all messages between the dates with the given message state

    ant -f ant-b2b-util.xml b2bpurge
    ***-Dmode**=RT*
    ***-Dfromdate**="19/12/2009 01:04 AM"*
    ***-Dtodate**="19/12/2009 01:05 AM"*
    ***-Dmsgstate**=MSG_COMPLETE*

Self-Service Utility

The purpose of this utility is to create Oracle B2B metadata from an XML file which get created based on the selfservice.xsd.

b2bselfservicexsd Utility
This utility creates "selfservice.xsd" This structure can then be use to create Oracle B2B metadata in XML format

b2bselfservice Utility
This utility converts the selfservice xml to the standard Oracle B2B Metadata file.

Parameters

Parameter	Description	Required
input	XML file location absolute location	Yes
output	Oracle B2B metadata stored as ZIP file in this location	No

Examples

- Create selfservice.xsd file, where this command get run.

    ant -f ant-b2b-util.xml b2bselfservicexsd

- Convert selfservice xml to Oracle B2B metadata ZIP file and stored in /tmp/soa.zip.

    ant -f ant-b2b-util.xml b2bselfservice
    ***-Dinput**="/tmp/selfservice1.xml"*

- Convert selfservice xml to Oracle B2B metadata ZIP file and stored in /tmp/as11b2b.zip.

    ant -f ant-b2b-util.xml b2bselfservice
    ***-Dinput**="/tmp/selfservice1.xml"*
    ***-Doutput**="/tmp/as11b2b.zip"*

Resubmission Utility

The purpose of this utility is to resubmit either Application or Wire messages for processing.

Note:

> Refer to section on throttling to address the surge of messages that may occur by the resubmission.

b2bresubmit Utility Parameters

Parameter	Description	Value	Required
msgsource	Message source	APPMSG (Default) WIREMSG	Y
msgid	Message Id	Multiple message ids separated by comma	N
payloadpath	Payload path		N
fromdate	• In double-quotes • dd/mm/yyyy hh:mm AM/PM		N
todate	• In double-quotes • dd/mm/yyyy hh:mm AM/PM		N
msgstate	Message State	MSG_COMPLETE MSG_ERROR MSG_WAIT_TRANSMIT MSG_WAIT_FA MSG_WAIT_BATCH	N
direction	Direction of the message	OUTBOUND INBOUND	N
doctype	Document Type		N
tp	Partner name		N
convid	Conversation Id		N
Agreement	Agreement Name	Name of the agreement	N

Examples

- resubmit the outbound appmessage, which has a message Id as 12345

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=APPMSG
  -Dmsgid=12345

- Other examples:

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=APPMSG
  -Ddoctype="850"

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=APPMSG
  -Dfromdate="29/11/2009 05:40 AM"
  -Dtodate="30/11/2009 07:39 AM"

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=APPMSG
  -Dagreement="OracleServices_X12_4010_850"

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=WIREMSG
  -Dmsgstate=MSG_ERROR

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=APPMSG
  -Dfromdate="29/11/2009 05:40 AM"
  -Dtodate="30/11/2009 07:39 AM"
  -Ddirection=OUTBOUND

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=APPMSG
  -Dfromdate="29/11/2009 05:40 AM"
  -Dtodate="30/11/2009 07:39 AM"
  -Ddirection=INBOUND

  ant -f ant-b2b-util.xml b2bresubmit
  -Dmsgsource=APPMSG
  -Dmsgid="12345"
  -Dpayloadpath="/tmp/850.xml"

Schedule Partner Downtime Utility

The purpose of this utility is to schedule partner downtime.

Setup

This process uses the Stacking infrastructure, which is based on a store and forward mechanism. To enable the following UI parameters must be set. Administration→ Configuration

UI: Parameter	Description	Default	Min. Value
Outbound dispatcher count	# of dispatchers used for outbound messages	0	1

For more details refer to (Configuring B2B System Parameters)

http://download.oracle.com/docs/cd/E14571_01/integration.1111/e10229/bb_config.htm#CEGEADFJ

Note: Number of dispatchers depends on the load and configuration of the system.

b2bschedule Utility Parameters

Parameter	Description	Value	Required
mode	Specifies the mode	SCHEDULE (Default) UNSCHEDULE	N
tp	Partner Name		Y
fromdate	Start of downtime • In double-quotes • dd/mm/yyyy hh:mm AM/PM		N
todate	End of downtime • In double-quotes • dd/mm/yyyy hh:mm AM/PM		N
schedulename	Schedule Name		Y
channelname	Delivery Channels	If null: ALL the channels	N
extend	Extend the schedules • In double-quotes • dd/mm/yyyy hh:mm AM/PM		N

Examples
1. Schedule Partner downtime for a specific channel and duration
   > ***ant -f ant-b2b-util.xml b2bschedule***
   > ***-mode=*** *SCHEDULE*
   > ***-Dtp="****OracleServices"*
   > ***-Dfromdate****="28/05/2010 06:10 AM"*
   > ***-Dtodate****='28/05/2010 06:15 AM"*
   > ***-Dchannelname****="MarketInc_AS2_DC"*
   > ***-Dschedulename****= "Maintenance"*

2. Schedule a particular channel for downtime
   > ***ant -f ant-b2b-util.xml b2bschedule***
   > ***-mode=*** *SCHEDULE*
   > ***-Dtp****="MarketInc"*
   > ***-Dchannelname****="MarketInc_ebMS_DC"*

3. Schedule the Partner for downtime
   All channels of particular partner will be down for unknown duration. Executing the unscheduled command separately would bring back the partner to active.
   > ***ant -f ant-b2b-util.xml b2bschedule***
   > ***-mode=*** *SCHEDULE*
   > ***-Dtp****="MarketInc"*

4. Schedule downtime for a particular duration of time
   > ***ant -f ant-b2b-util.xml b2bschedule***
   > ***-mode=*** SCHEDULE
   > ***-Dtp****="MarketInc"*
   > ***-Dfromdate****="28/05/2010 03:05 AM"*
   > ***-Dtodate****="28/05/2010 03:08 AM"*

5. Un-scheduling the scheduled event
   > ***ant -f ant-b2b-util.xml b2bschedule***
   > ***-Dmode****=UNSCHEDULE*
   > ***-Dschedulename****="Maintenance"*

   Note:
   > Variants on date-based options are
   >> o NO start date
   >>> Triggers the down time immediately upon creation till the end date
   >> o NO end date
   >>> Indefinite downtime: Will unschedule operation

Throttling Messages

Partner Downtime could cause a surge of messages sent to the Partner when the scheduled down time is over. This system parameter provides a delay.

If you have Four (4) Outbound Dispatchers and set this property to 1000ms then the throughput will be 4 messages / sec

System Property

System: Property	Description	Default	Min. Value
b2b.OutboundDispatchInterval	Delay for every cycle. E.g. # of message / ms	1	1000

Note: This setting can be as minimal as 10 msec depending on requirement.