

Nasdaq Calypso MTM Integration Guide

Version 4.3.0

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Document History

Revision	Published	Summary of Changes
1.0	July 2014	First edition for version 1.0.
2.0	November 2018	Updates for version 2.2.0.
3.0	December 2020	Updates for version 2.2.1, 2.2.2.
4.0	February 2021	Updates for version 2.2.3.
5.0	August 2021	Updates for version 2.3.0.
6.0	October 2021	Updates for version 2.4.0.
7.0	December 2021	Updates for version 2.5.0 is a technical release only.
8.0	January 2022	Updates for version 3.0.0, 3.0.1 - Technical release only – Compatibility for version 17
9.0	January 2024	Updates for version 4.3.0 - Technical release only – Compatibility for version 18
10.0	August 2024	Updates for version 3.3.0 – Release notes.

This document describes the Calypso MTM Interface (MarkitSERV Trade Manager).

NOTE: The Calypso License to use this Calypso Integration Module does not include a license for any third-party data services to which this module can interface. Clients are responsible for contracting with the appropriate third-party data service(s) prior to using this Calypso Integration Module.

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Introduction

This document describes the Calypso MTM Interface setup. MarkitSERV Trade Manager (MTM) is an API Solution for the Buy Side Firms. MTM provides the Buy side firms a single gateway to connect to MARKITSERV suite of services such as Allocation Delivery, Affirmation, Confirmation and Clearing for the following Transaction types

- Trade
- Novations
- Terminations
- Amendment

This document assumes that the Buy Side firm is using Calypso as their front office system, and the sell side uses Markitwire as the affirmation platform to allege the trades. Once both trades are entered in the respective systems and sent to Markit Trade Manager, MTM would then match the trades and provide Clearing and Allocation delivery services to the Buy side.

Clearing the Trades

The trades sent to MTM for clearing should contain the following keywords.

- CCP
- CCPClearingBroker

The keywords are sent to MTM in XML via clearing details information as follows:

```
<ClearingDetails>
<ClearingHouse>AUTO_SIM</ClearingHouse>
<ClearingBroker>BSAPISEL01</ClearingBroker>
</ClearingDetails>
```

Once both parties allege the trades, MTM matches the trades and sends the trade for clearing to the selected CCP. Once the trade is cleared, MTM sends the responses back to the Buy side, resulting in a novation to CCP.

NOTE: Incoming allege messages are not currently supported as MTM does not send the trade details, and only sends the notification.

Allocation Delivery

If the account of the trade submitted to MTM is a Block account, it is treated as an allocation, in which case, after the trades are matched, MTM would deliver the allocation details to the sell side.



Interface Components

The interface comprises the MTMImportMessageEngine which listens to a Message Queue (MQ). It subscribes to the Message and Trade events. The events are triggered as soon as a message is posted into the input queue.

The Sender engine is responsible for sending out acknowledgements back to MQ depending on the status / state of the message / trade.

The MTM message flows through the configured workflows that route the message to appropriate stages until completion.

The document describes the configuration required to setup the workflows, engine etc. for the MTM module to run successfully.

Product Coverage

The Scope of this project is to build an interface to MTM and support Clearing workflows and Allocation Delivery of the following product types:

- InterestRateSwap
- CreditDefaultSwap
- CDSIndex

For IRS the family, the trade confirmation / clearing, and allocation delivery are handled by MTM. However, for Credit only the clearing and allocation delivery are handled, for bilateral confirmation the trades will be routed to DS Match by the MTM application.



Installation

2.1 Installation Instructions

The MTM module is installed as part of the Calypso Installer when you select the "Markit Trade Manager" interface:



Please refer to the Calypso Installation Guide for complete details on the Calypso Installer.

If you are installing a Calypso Upgrade package instead, the instructions are also in the Calypso Installation Guide.

When you run Execute SQL as part of your installation, load the following files if they are not already loaded:

- GatewaySchemaBase.xml
- MTMSchemaData.xml



2.1.1 Domain Values

Running the MTM Schema Data will create the following data.

Domain "DTCC-MTM-ReportingData"

This domain contains the information that needs to map to trade keywords.

📈 Domain Values Window (User: calyps	o_user)				
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BlockUSI/USITradeId					
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ClearingExceptionPartyValue			>> Rem	ove	
ClearingHouse					
ClearingStatus			Constra	ints	
ConfirmedTimestamp					
ElectronicConfirmation			Help		
PrimaryAssetClass					
ReportingJurisdiction-CFTC					
USI/USIIssuer					
USI/USITradeId					
DTCC-ReportingData-MTM-Flags					
DTCC.Templates					
U U CCKeywordCptyTradeId					

Domain "leAttributeType"

Values: DTCC_LE_ID, DTCC_LE_TYPE

Domain "creditDefaultSwapUpfrontFeeType"

Value: UPFRONT_FEE

Domain "cdsIndexUpfrontFeeType"

Value "UPFRONT_FEE"

Domain "AllocationPreserveTradeKeywords"

The trade keyword specified in this domain will be propagated to child trade when an allocation occurs.





Domain "PropagateBlockTradeChangesAction"

This domain indicates the action to be set on the trade when propagating information during an allocation.



2.1.2 Libraries Dependencies

The following libraries are required as dependency for the MTM module, which can be downloaded from the download website.

The libraries for the respective calypso version should be downloaded for each one mentioned below. Once downloaded based on the calypso version the libraries need to be installed following the installation process recommended.

- data uploader
- dtcc-common
- derivserv-core
- derivserv-protocol



Setup Requirements

3.1 Message Workflows

The message workflows required by the MTM interface for incoming and outgoing messages can be imported into the system using the files "<calypso home>/clients/resources/MTM_CONFIRM.wf" and "<calypso home>/clients/resources/MTM_INCOMING.wf".







NOTE: The Allocation workflow is required for allocation. Please refer to the core calypso documentation of trade allocations and set up the workflow as required for allocations.

3.2 Message Setup

Message setup is required for each lifecycle of every product that MTM supports as shown below. Message setup will be added to the database by running the Execute SQL with the category "MTM Message Setup".

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Product: G.MM Products
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Message Configuration Setup Window - Version - 0 Utities Help Product: N/A Product: N/A B- Product: N/A B- Product: ALL B- Product: CDSABSINdex B- Product: CDSIndex B- Product: CDSIndex B- Product: CDSIndex B- Product: CDSIndex B- Product: COSINdex B- Product: Commodity Product: Commodity Processing Org B- Product: Commodity Product: Commodity PO Contact Type D- Product: Commodity Product: FNNDF Receiver AlL B- Product: FNNDF B- Product: FNNDF B- Product: SOB B- Product: FNNDF B- Product: FNNDF B- Product: SOB B- Product: SOB
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3.3 Message Sender Config

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	· ·							
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Static Data Filter				Gateway	MTM			•
Save								
Send	Send	er By Method	Sender By Cat	eway				
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17086 VEDIETED	ALL		SWIFT	SWIFT				
16082 TO BE SENT	ALL	PAYMENTMSG	SWIFT	SWIFT				
16079 SENT	ALL	PAYMENTMSG	SWIFT	SWIFT			<u> </u>	
17987 EDITED	ALL	PAYMENTMSG	SWIFT	SWIFT			•	
35267 VERIFIED	ALL	MTM_CONFIRM	MTM	MTM				
45250 VERIFIED	ALL	GATEWAYMSG	Uploader	Uploader				



Mes	sage Sender	Config (U	lser: calypso_user)						
Sender	Config Copy	Config							
			-		D				
Me	ssage Status	TO_BE_SEN	NI .	•	Product Type				
	Advice Type	MTM CONF	IRM	-	Address Type	мтм			-
		-				· · · · ·			
	Г								
Stat	ic Data Filter				Gateway	и			<u> </u>
	Save								
V	Send	🔲 Sende	er By Method	Sender By Gat	eway				
Gat	ewayMTMDocu	mentSende	er class will be called						
	Save	1	Remove	New					
-									
Id	Status	Product	Advice Type 🗸	Address Type	Gateway	SD Filter	Send	Save	By Gateway
17986	VERIFIED	ALL	PAYMENTMSG	SWIFT	SWIFT				
16082	TO_BE_SENT	ALL	PAYMENTMSG	SWIFT	SWIFT		•		
17987	EDITED	ALL	PAYMENTMSG	SWIFT	SWIFT				
55092	VERIFIED	ALL	MTM_CONFIRM	MTM	MTM				
55091	TO_BE_SENT	ALL	MTM_CONFIRM	МТМ	MTM				
16075	TO_BE_SENT	ALL	DICC CONFIRM	DTCC	DTCC		\checkmark		

3.4 Master Confirmation Config & Legal Agreements

Master confirmation and Legal Agreements are required between the Processing Org and the Counterparty legal entities.

Master confirmations are required by Credit products, whereas Legal Agreements are required for both IRS and CDS products.

If MBANUS33 is the Counterparty and CMTM_BLOCK is the Processing Org the Confirmation should be as follows.



Master Confirmation Window - Version - 0 [1300075P	2/13SP2/calypso_user] (U	ser: calypso_user)
	Edit Browse	
E- PO: CMTM_BLOCK		
🖻 🗁 CounterParty: MBANUS33		
🖻 🧰 Product: CDSIndex	Counter Party	MBANUS33
🖻 🗁 Confirmation: ISDA2003CreditAsia		
ISDA2003CreditAsia (Id:: 54791, Pro	Processing Org	CMTM_BLOCK Id 54791
Product: CreditDefaultSwap		
Confirmation: NorthAmericanCorporate	Region	N.Amer Product Type CDSIndex
NorthAmericanCorporate (Id:: 5479)		Date as /as /ass
NorthAmericanCorporate (Id:: 5622	Currency	USD Date 01/01/2001
CounterParty: MBANUS33	Туре	ANY SD Filter
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CounterParty, MDAN0333	Master Commit Type	
	A 1 Pro 1 7 6	
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Calculation Agent							
Calculation Agent City							
Holidays	NYC,LON						
isDTCC	Y						



Please note that the MasterConfirmation Type should match as shown in the screen shots above.

For CDSIndex the master confirmation type should be "ISDA2003CreditAsia".

For CDS the master confirmation type should be "NorthAmericanCorporate".

Also, it is important to set the Holidays and the isDTCC flag for each of these confirmation types.

Please note the agreement in the screen shots provided below for Legal Agreements (note that Data Uploader samples can be used to upload the legal agreements, however the master confirmation types have to be created manually as they are not yet supported by the Data Uploader).

Legal Agreement Window - Version - 1 [300075P2/135P2/calypso_user] (User: calypso_user)	
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Legal Agreement Legal Entity	Processing Org CMTM_TEST1 Id Number 54786	Documents
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	Special Clause	
	Additional Info	
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	54788 CMTM_TEST3 MBANUS33 ALL ALL	DTCC 12/12/201
	54786 CMTM_TEST1 MBANUS33 V ALL G.Swap	Family DTCC 12/12/201
	54785 CMTM_BLOCK MBANUS33	DTCC 12/12/201
Legal Agreement Window Version 0	DADATED / 12CD / and men used / (Isom salunce used)	
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Status ALL Include Children	Status SIGNED Ref Number	🗍 Is Trilateral
	Agent AGENT Currency USD	
	Special Clause	
	LE Children 🕅 ALL	
	All Legal Agreements	
	Id Processing Org Legal Entity Master Trilateral Product Family Proc	luct Type Date
	54788 CMTM TEST3 MBANUS33	DTCC 12/12/201



3.5 Processes

3.5.1 **Property File**

You need to setup a property file for the MTM Import Message engine: "calypso_mtm_config.properties".

This file contains the properties used to identify the input and output queues. The following are the properties in the config file:

Sender Engine (MQ)
mq.dtcc.hostname=10.2.1.252
mq.dtcc.port=1414
mq.dtcc.appiddatauser=059T0101
mq.dtcc.appiddatapass=TIJA6D1J
mq.dtcc.queuemanager=U059T0101
mq.dtcc.channel=SYSTEM.ADMIN.SVRCONN
output.queue.name=DER.PART_DTCC.TRADE.INP01
DER.PART_DTCC.TRADE.INP01.queue.setContext=true
Import Message Engine (JMS)

jms.url=file://localhost/c:/tools/IBM/binding/ jms.modetypeclass=com.sun.jndi.fscontext.RefFSContextFactory jms.queue.connectionFactory=QueueConnectionFactory input.queue.name=QUEUE.MTM.CALYPSO QUEUE.MTM.CALYPSO.queue.ackType=auto QUEUE.MTM.CALYPSO.queue.persist=true QUEUE.MTM.CALYPSO.queue.transacted=false

DEBUG_XML=true

3.5.2 Engines

The following engines need to be running:

- Message engine, for outgoing message generation
- Sender engine, to send message to MQ
- Import message engines, to import message from MQ

The setup of the engines is done using the Engine Manager in Web Admin.

They are started as part of the Engine server using "<calypso home>/startEngineserver.bat" on Windows platforms or "<calypso home>/startEngineerver.sh" on *nix platforms.





Book and Legal Entity Mapping 3.6

Below legal entity setup is required to generate the outgoing message. Legal entity should have LE attribute DTCC_LE_ID and DTCC_LE_TYPE as shown in the screenshots.

seegarenery v	ersion - 0 [13000/	75P2/135P2/caly	pso_userJ(U	ser: calypso	_user)	_	
Utilities Help							
Short Name	CMTM_BLOCK			Status	Enabled		-
Full Name	Block Legal Entity			Role(s)	CounterPart	у	
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		~ .		I	Tripart	v Substitutions	
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Attribute Type			value	10000LX48			
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54758 AL	_	CMIM_BLOCK	ALL	DICC_LE_ID		000LX48	
🗾 🥖 Legal Entity- \							1-1-1
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Utilities Help	/ersion - 0 [13000	075P2/135P2/caly	/pso_user] (l	Jser: calyps	o_user)		<u> </u>
Utilities Help Short Name	/ersion - 0 [13000	075P2/135P2/caly	/pso_user] (l	Jser: calyps Status	o_user) Enabled]	- O ×
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Utilities Help Short Name Full Name Parent	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE	075P2/135P2/caly	/pso_user] (l	Jser: calyps Status Role(s)	o_user) Enabled CounterPa Processing	rty Org	_ [] ×
Utilities Help Short Name Full Name Parent Country	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE UNITED STATES	075P2/135P2/caly	/pso_user] (\ 	Jser: calyps Status Role(s)	Enabled CounterPa Processing	rty Org	- O ×
Utilities Help Short Name Full Name Parent Country Inactive As From	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE UNITED STATES	User calypso_u	/pso_user] ((Jser: calyps Status Role(s)	Enabled CounterPa Processing	rty Org	- I I ×
Utilities Help Short Name Full Name Parent Country Inactive As From Entered Date	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE UNITED STATES 01/31/2014	User calypso_u	/pso_user] (l	Jser: calyps Status Role(s)	Enabled CounterPa Processing	rty Org	×
Utilities Help Short Name Full Name Parent Country Inactive As From Entered Date External Ref	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE UNITED STATES 01/31/2014	User calypso_u 4:39:49 PM	vpso_user] ((Jser: calyps Status Role(s) 	Enabled CounterPa Processing	rty Org	×
Utilities Help Short Name Full Name Parent Country Inactive As From Entered Date External Ref Holidays	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE UNITED STATES 01/31/2014 NYC,LON	User calypso_u 4:39:49 PM	/pso_user] ((Jser: calyps Status Role(s)	Enabled CounterPa Processing	rty Org	X
Utilities Help Short Name Full Name Parent Country Inactive As From Entered Date External Ref Holidays	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE UNITED STATES 01/31/2014 NYC,LON	User calypso_u 4:39:49 PM	Vpso_user] (U	Jser: calyps Status Role(s)	Enabled CounterPa Processing	rty Org	×
Utilities Help Short Name Full Name Parent Country Inactive As From Entered Date External Ref Holidays	Version - 0 [13000 CMTM_TEST1 Fund 1 NONE UNITED STATES 0 1/31/2014 NYC,LON	User calypso_u	/pso_user] ((Jser: calyps Status Role(s)	Enabled CounterPa Processing	rty Org	X



🜽 Legal Entity	Legal Entity Attributes Window (User: calypso_user)							
Legal Er	ntity	CMTM_TEST1		Role	ALL			
Processing C	Drg ALL 💌							
Attribute Type ACCOUNT		ACCOUNTING	•		Value			
Id	Pro	cessing Org	Legal Entity	F	lole	Attribute Type	Attribute Value	
54760 ALL		CMTM_TEST1	ALL		DTCC_LE_ID	0000LX45		

The Trade keywords will be populated as follows:

🔊 Trade Attributes Window					
	Domain				
Name		Value			
CCP		CME			
CCPClearingBroker		MWBANK			
CCPNettingId		NETT123			
NegotiatedCurrency		USD			
TradeSource		DataUploader			
26T		v			
AccountNumber					
ADMADULATE CONFIDENCE	-	1			

After clearing:

<USI> <USIIssuer issuerIdScheme="http://www.fpml.org/coding-scheme/cftc/issuer-identifier">1010000051</USIIssuer> <USIIradeId tradeIdScheme="http://www.fpml.org/coding-scheme/cftc/issuer-identifier">T220190819100087A300000108309136</USIIradeId>

<USITradeId tradeIdScheme="http://www.fpml.org/coding-scheme/cftc/issuer-identifier">T220190819100087A300000108309136</USITradeId> <USI> <USI> <USISuer issuerIdScheme="http://www.fpml.org/coding-scheme/external/unique-transaction-identifier">0000452A</USIIssuer> <USISitradeId tradeIdScheme="http://www.fpml.org/coding-scheme/external/unique-transaction-identifier">MARKITWIRE199999990000000D</USITradeId> <USIS



Trade Attributes Window		25
Domain		
Name	Value	
CCP	TCREDH22XXX	-
CCPClearingBroker	MWBANK	===
CONFIRMED	Y	
PlatformSubmitStatus	Unconfirmed	
PlatformTradeId	19999999	
ReportingCFTCUSIIssuer	101000051	
ReportingCFTCUSIValue	T220 1908 19 100087A 300000 108 309 136	
TransferDate	06/06/2014	
TransferFrom	633782	
TransferTradeDate	6/6/14 1:46:38 AM	
TransferType	Novation	
USIIssuer	0000452A	
USIValue	MARKITWIRE 19999990000000D	
26T	v	



MQ Setup

The MTM module reads messages from a JMS Provider (like IBM MQ) via the MTM Import Message Engine and translates them into CalypsoUploadDocument format. The Following are the steps to be followed to support real-time messaging via IBM MQ or any other JMS Provider like Apache Active MQ.

4.1 Prerequisites

- Installation IBM MQ / Active MQ (or another JMS Provider)
- Queues / Queue manager should already be created by customer.
- Calypso with MTM configured.

4.2 MTM Configuration for JMS Support

This section covers installation and configuration of JMS Support in MTM.

4.2.1 Installation

Ensure that the appropriate jars are set in the Classpath. Each JMS provider will have different jars required. We are providing an example for Web sphere MQ and Active MQ below.

The MTM jar should already be in classpath. Details are not covered since that is discussed in the MTM setup guide.

For IBM WebShere MQ

- com.ibm.mq.commonservices.jar
- com.ibm.mq.headers.jar
- com.ibm.mq.jar
- com.ibm.mq.jmqi.jar
- com.ibm.mq.jms.Nojndi.jar
- com.ibm.mq.pcf.jar
- com.ibm.mqjms.jar
- connector.jar
- fscontext.jar
- jms.jar
- jndi.jar
- providerutil.jar



com.ibm.mq.jmqi.jar

dhbcore.jar

For Active MQ

activemq-core-5.5.0.jar (or whatever version the customer is using)

kahadb-5.5.0.jar

4.2.2 Calypso Configuration

The following configuration needs to be done in Calypso.

- MTM Import Message Engine for incoming Messages (Receiver Queue)
- Acknowledgements: MTM Import Message Engine to send ACK / NACK messages to Sender Queue.

The Import Message Engine listens to JMS Queue (Receiver Queue) based on the Message Engine configuration. Any SOAP (having fpml embedded) message placed on the queue is read by the Engine and then translated to CalypsoUploadDocument and finally Uploaded into Calypso. Acknowledgements generated are sent back to the Sender Queue using the same Engine.

Configuring MTM Import Message Engine

To configure the Import Message Engine, please change the following in the file "calypso_uploader_config.properties".

Connection Details for the JMS

Please uncomment the appropriate block for Active MQ or Websphere MQ. The sample below shows the connection for Active MQ, whereas Websphere MQ is commented. So, please keep one of the blocks below.

```
# Connection Details for JMS
# Start Connection Details for ActiveMQ
jms.url=tcp://localhost:61616
jms.modetypeclass=org.apache.activemq.jndi.ActiveMQInitialContextFactory
jms.queue.connectionFactory=ConnectionFactory
# End Connection Details for ActiveMQ
# Start Connection Details for IBM Websphere MQ
# Please see documentation (appendix) on how to generate
# this bindings files
#jms.url=file://localhost/usr/local/calypso/resources/MTM/binding
#jms.queue.connectionFactory=QueueConnectionFactory
# End Connection Details for IBM Websphere MQ
```



Input Queue Name. Please keep one of the blocks below based on the JMS provider.

Input Queue Name (Active MQ)
Note that for ActiveMQ the queue name has to prefix with
'dynamicQueues/', so the following is needed for Active MQ
input.queue.name=dynamicQueues/inputqueue
dynamicQueues/inputqueue.gueue.setContext=true

Input Queue Name (Websphere MQ)
input.queue.name=<u>inputqueue</u>
inputqueue.queue.setContext=true

Output Queue Name: Please keep one of the blocks below based on the JMS provider.

Output Queue Name (Active MQ)
Note that for ActiveMQ the queue name has to prefix with
'dynamicQueues/', so the following is needed for Active MQ
output.queue.name=dynamicQueues/outputqueue
dynamicQueues/outputqueue.queue.ackType=auto
dynamicQueues/outputqueue.queue.persist=true
dynamicQueues/outputqueue.queue.transacted=false

Output Queue Name (Websphere MQ)
output.queue.name=outputqueue
outputqueue.queue.ackType=auto
outputqueue.queue.persist=true
outputqueue.queue.transacted=false

The below step is to be done for connecting to a remote queue manager having the user configuration done as mentioned previously.

MQ username

Set the following property having the username of the MQ user setup on remote queue manager.
jms.queue.connectionUserName=mq_user



MQ user password

Set the following property having the password of the MQ user setup on remote queue manager.

jms.queue.connectionPassword=<password>

App Id Data user and password

Set the following properties having the username and password given by DTCC which will be set as ApplIdenttityData field in the message header.

<OutputQueueName>.queue.appiddatauser=<username>

```
<OutputQueueName>.queue.appiddatapass=<password>
```

4.3 Appendix: Websphere MQ Setup

The following steps are to be performed only when using IBM MQ Series.

IBM WebSphere MQ Installation

- Install IBM MQ Series
- Create Queues

Launch MQ Explorer and create the following.

Queue Manager

Input Queue

- Output Queue
- Create Binding File for JMS Connectivity

Binding File for JMS Connectivity

Websphere MQ requires a bindings file to be created for JMS usage. This file has configuration which allows Java to connect to Websphere as a MQ. The process is as follows.

- Generate Bindings file as explained below, which is used as PROVIDER_URL to connect to the Middleware.
- Link the Bindings file in the MTM Import Message Engine for JMS Provider setup. E.g. see the line below to be changes in the MTM Import Message Engine configuration file.

#jms.url=file://localhost/usr/local/calypso/resources/MTM/binding

Generating Bindings

 Backup your JMSAdmin.config file if already present in environment. Rename the file src/main/resources/MTMJMSAdmin.config to JMSAdmin.config

This is required since IBM tools to generate bindings only read JMSAdmin.config. So, please be sure to backup any earlier JMSAdmin.config file so that it can be restored.





• Edit the file src/main/resources/JMSAdmin.config and change the following properties.

PROVIDER_URL=file:/usr/local/calypso/resources/MTM/binding (this indicates the path to the bindings file and the name of the file will be ".bindings";)

SECURITY_AUTHENTICATION=none (authentication model)

• Edit the file **src/main/bin/MTMMQSeries.bat** and change the highlighted text (which are the Queue Manager Name, Input queue name and Output queue name).

@echo off

rem

rem -----

rem this batch file is used to generate the bindings that are used by the connection factory.

rem replace InputQueueName with the name of the input queue

rem replace OutputQueueName with the name of the output queue

rem replace QM_Name with the name of the Queue Manager

rem change the classpath to the appropriate path

echo + Creating script for object creation within JMSAdmin

echo del qcf(QueueConnectionFactory) > MTMmqsetup.scp

echo del q(<mark>CalypsoToClient</mark>) >> MTMmqsetup.scp

echo del q(<mark>ClientToCalypso</mark>) >> MTMmqsetup.scp

echo def qcf(QueueConnectionFactory) TRAN(CLIENT) HOST(127.0.0.1) PORT(1414) qmgr(QM.JM)
CHANNEL(SYSTEM.ADMIN.SVRCONN)>> MTMmqsetup.scp

echo def q(<mark>CalypsoToClient</mark>) qu(<mark>CalypsoToClient</mark>) qmgr(<mark>QM_CALYPSO</mark>) tc(JMS)>> MTMmqsetup.scp

echo def q(<mark>ClientToCalypso</mark>) qu(<mark>ClientToCalypso</mark>) qmgr(<mark>QM_CALYPSO</mark>) tc(JMS)>> MTMmqsetup.scp

echo end >> MTMmqsetup.scp

set CLASSPATH="D:\\calypso\\software\\rel12sp6\\mqjars\\com.ibm.mq.jar;D:\\calypso\\software\\rel12sp6\\mq-jars\\com.ibm.mqjms.jar"

echo + CLASSPATH=%CLASSPATH%

echo + Calling JMSAdmin in batch mode to create objects

java -DMQJMS_LOG_DIR="%MQ_JAVA_DATA_PATH%"\log -DMQJMS_TRACE_DIR="%MQ_JAVA_DATA_PATH%"\errors -DMQJMS INSTALL PATH="%MQ JAVA INSTALL PATH%" com.ibm.mq.jms.admin.JMSAdmin < MTMmqsetup.scp

echo + Administration done; tidying up files

del MTMmqsetup.scp



where,

- QM_CALYPSO is Queue Manager
- CalypsoToClient is Input Queue
- ClientToCalypso is Output Queue

We are giving sample for Windows, please create a similar script for Unix and change to Unix format (% should change to \$ for variable names, change CLASSPATH to use Unix syntax)

Sample script for Linux environment:

#!/bin/sh

#This script is used to create a MQ binding file. Please make sure that the directory specified in JMSAdmin.config PROVIDER_URL exists in the disk. The usages of the script is as below:

sudo -u <user> ./createMQbinding.sh QM TEST.SENDQ TEST.RECVQ <hostname> <port> <client_name>
<client_env_name>

QUEUE MANAGER=\$1

INPUT_QUEUE=\$2

OUTPUT QUEUE=\$3

MQ_HOST=\$4

MQ PORT=\$5

CLIENT=\$6

ENV=\$7

USER NAME=\$USER

#USER NAME=who

BINARY_PATH="/usr/local/calypso/clients/\${CLIENT}/\${ENV}/jars"

SCP_FILE="\${ENV}_`date +'%Y%m%d%H%M%S'`.scp"

echo "del q(\$INPUT_QUEUE)" >> \$SCP_FILE

echo "del q(\$OUTPUT_QUEUE)" >> \$SCP_FILE

echo "def qcf(QueueConnectionFactory) TRAN(CLIENT) HOST(\$MQ_HOST) PORT(\$MQ_PORT)
qmgr(\$QUEUE MANAGER) CHANNEL(SYSTEM.ADMIN.SVRCONN)" >> \$SCP FILE

echo "def q(\$OUTPUT QUEUE) qu(\$OUTPUT QUEUE) qmgr(\$QUEUE MANAGER) tc(JMS)" >> \$SCP FILE



```
echo "def q($INPUT_QUEUE) qu($INPUT_QUEUE) qmgr($QUEUE_MANAGER) tc(JMS)" >> $SCP_FILE
echo "end" >> $SCP_FILE
CLASSPATH="${BINARY_PATH}/com.ibm.mq.jar:${BINARY_PATH}/com.ibm.mqjms.jar"
echo "+ CLASSPATH=$CLASSPATH"
echo "+ Calling JMSAdmin in batch mode to create objects"
java -cp $CLASSPATH -DMQJMS_LOG_DIR="/home/$USER_NAME" -DMQJMS_TRACE_DIR="/home/$USER_NAME" -
DMQJMS_INSTALL_PATH="/home/$USER_NAME" com.ibm.mq.jms.admin.JMSAdmin < $SCP_FILE</pre>
```

echo "+ Administration done; tidying up files"

rm \$SCP_FILE

- This batch file or the shell scipt calls the IBM JMSAdmin tool that looks for the property file JMSAdmin.config in the current directory. So, please run the script in the same directory where the JMSAdmin.config is present. This will create the binding file.
- After generating the bindings, you can set the MTM Import Message Engine configuration appropriately.
- Run the batch file MTMMQSeries.bat as shown below.

 $\label{eq:calypsolsoftware} C:\calypsolsoftware\MTM\src\main\MTMMQSeries.bat$

- + Creating script for object creation within JMSAdmin
- + Calling JMSAdmin in batch mode to create objects.

5724-H72, 5655-L82, 5724-L26 (c) Copyright IBM Corp. 2002,2005. All Rights Reserved.

Starting Websphere MQ classes for Java(tm) Message Service Administration

JNDI initialization failed, please check your JNDI settings and service.

For additional information on the cause of this problem run with the -v argument

- + Administration done; tidying up files.
- + Done!



Release Notes

5.1 Changes in Version 3.3.0

Component	Case	APL	lssue	Тур е	Description
Markit TM 3.3.0		APL- 10316	MTM-125	Sec	Issue – Security - Upgrade org.xmlunit:xmlunit-core library to version 2.10.0.

5.2 Changes in Version 2.4.0

Component	HD/Cas e	RPM	lssue	Тур е	Description
Markit TM 2.4.0		RPM- 6307	MTM-97	Enh	Issue – Security - Upgrade xmlunit libraries to version 2.8.2.

5.3 Changes in Version 2.3.0

Component	HD/Cas e	RPM	lssue	Тур е	Description
Markit TM 2.3.0		RPM-4313	MTM-93	Enh	Issue – Technical issue - Changes for using "internal" Data Uploader module.

5.4 Changes in Version 2.2.3

Component	HD/Case	Issue	Туре	Description
Markit TM 2.2.3		MTM-89	lssue	Issue – Duplicate entries in MTMSchemaData.xml for domain xmlFormatType. Fix – Duplicate entries have been removed.



5.5 Changes in Version 2.2.1, 2.2.2

Component	HD/Case	Issue	Туре	Description
Markit TM 2.2.2		MTM-76	lssue	Issue – Duplicate entries in MTMSchemaData.xml.