

IMS Connect for IMS V12: an early look

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Disclaimer

The information in this presentation represents some things we have observed and/or experienced testing IMS Connect for V12. It does not necessarily represent the views of IBM and/or the IMS development lab. The information presented could change based upon additional maintenance or features provided from IMS. Fundi Software LTD PTY accepts no responsibility for anything that might be incorrect in this presentation.

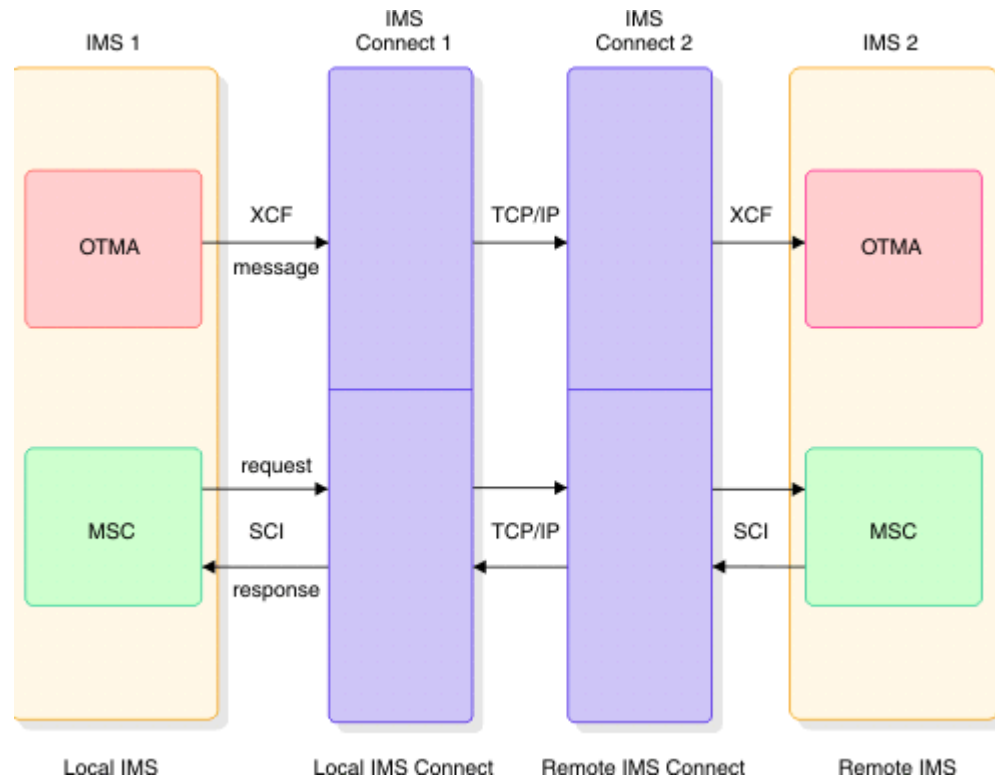
Overview

- IMS Connect version 12 offers a number of significant enhancements
- Overview of the major enhancements
- Configuration and setup challenges
- Addressing the challenges
- Examining new types of workloads

IMS Connect version 12: focus

- IMS to IMS TCP/IP MSC
- IMS to IMS TCP/IP OTMA
- New IMS Connect type-2 commands

Two ways of connecting IMS systems with TCP/IP



IMS Connect MSC TCP/IP links

- Configuration and administration often spans multiple IMSPLEXEs
- Requires synchronizing configuration across all the sites you intend to support
- Complex referential requirements. An incorrect reference in one place can fail the entire setup
- Ongoing administration requires working with IMS Connect systems and managing them across multiple sites

Configuration and set up (IMS CM)



```
File Help
-----
EDIT      ICDJ.VC10.PROCLIB                      Row 1 of 20
Command ==> _____ Scroll ==> CSR

Search . . . MSC V12

Member
/ *
DFSDC000  Prompt      Lib  Size  Created  ----- Changed -----  ID
-  _ GENIMSID=GIMS    Generic IMS ID for MSC TCP/IP link session
-----
-  HWSCFGMS          1    33  2012/02/24  2012/02/24  14:30:39  REA
-  _ HWS (ID=QAMSCA,  Identifies this connection to a remote IMS
-  _ PORT=(ID=8801),  Identifies this connection to a remote IMS
-  _ MSC=(LCLPLKID=MSC18,
-  _ RMTPLKID=MSC19,  The remote name of the MSC physical link
-  _ LCLIMS=(ICDJ),   The IMS ID of the local IMS system
-  _ RMTIMS=ICDH,     The IMS ID of the remote IMS system
-  _ RMTIMSCON=CONNECT1,
-  _ GENIMSID=GIMS,   The MSC TCP/IP generic IMS ID
-  _ RMTIMSCON=(ID=CONNECT1,
```

Identify the members that help you configure MSC

DFSDC and HWSCFG are the two main members

```
Help - RMTIMSCON (HWSCFGxx)

RMTIMSCON=
RMTIMSCON is both a statement and a subparameter of the MSC parameters.
Further, context sensitive Help is available for each case:

RMTIMSCON(...)
  Defines a TCP/IP connection to a remote IMS Connect instance.

MSC(RMTIMSCON=rmt_imscon_name)
  Specifies the remote IMS Connect connection to use for MSC messages.
```

We are using IMS CM to learn about each plugin. You can also get the same information from the User's Guide or InfoCenter

Local ICON

```

HWS (ID=QAMSCA,RACF=N,
RRS=N,XIBAREA=20)
*
ADAPTER (XML=Y)
*
TCPIP (HOSTNAME=TCPIP,
RACFID=HWSDFLT,ECB=N,IPV6=N,
TIMEOUT=8888,MAXSOC=2000,
PORT=(ID=3801),
EXIT=(HWSCSL00,HWSCSL01))
*
MSC=(LCLPLKID=MSC18,
RMTPLKID=MSC19,
IMSPLEX=(MEMBER=MQAMSCA1,
TMEMBER=PLCDJ),
LCLIMS=(ICDJ),
RMTIMS=ICDH,
RMTIMSCON=CONNECT1,
GENIMSID=GIMS)
*
RMTIMSCON=CONNECT1,
HOSTNAME=FTS1,
PORT=3811,
PERSISTENT=Y,
RESVSOC=10)

```

Local IMS physical link

```

ICD89VNK MSPLINK TYPE=TCPIP,
NAME=ICDH,LCLICON=MQAMSCA1,
LCLPLKID=MSC18,SESSION=10,
BUFSIZE=1024
*
MSCLK8 MSLINK MSPLINK=ICD89VNK,
PARTNER=QT
*
ICD89V MSNAME SYSID=(19,18)

```

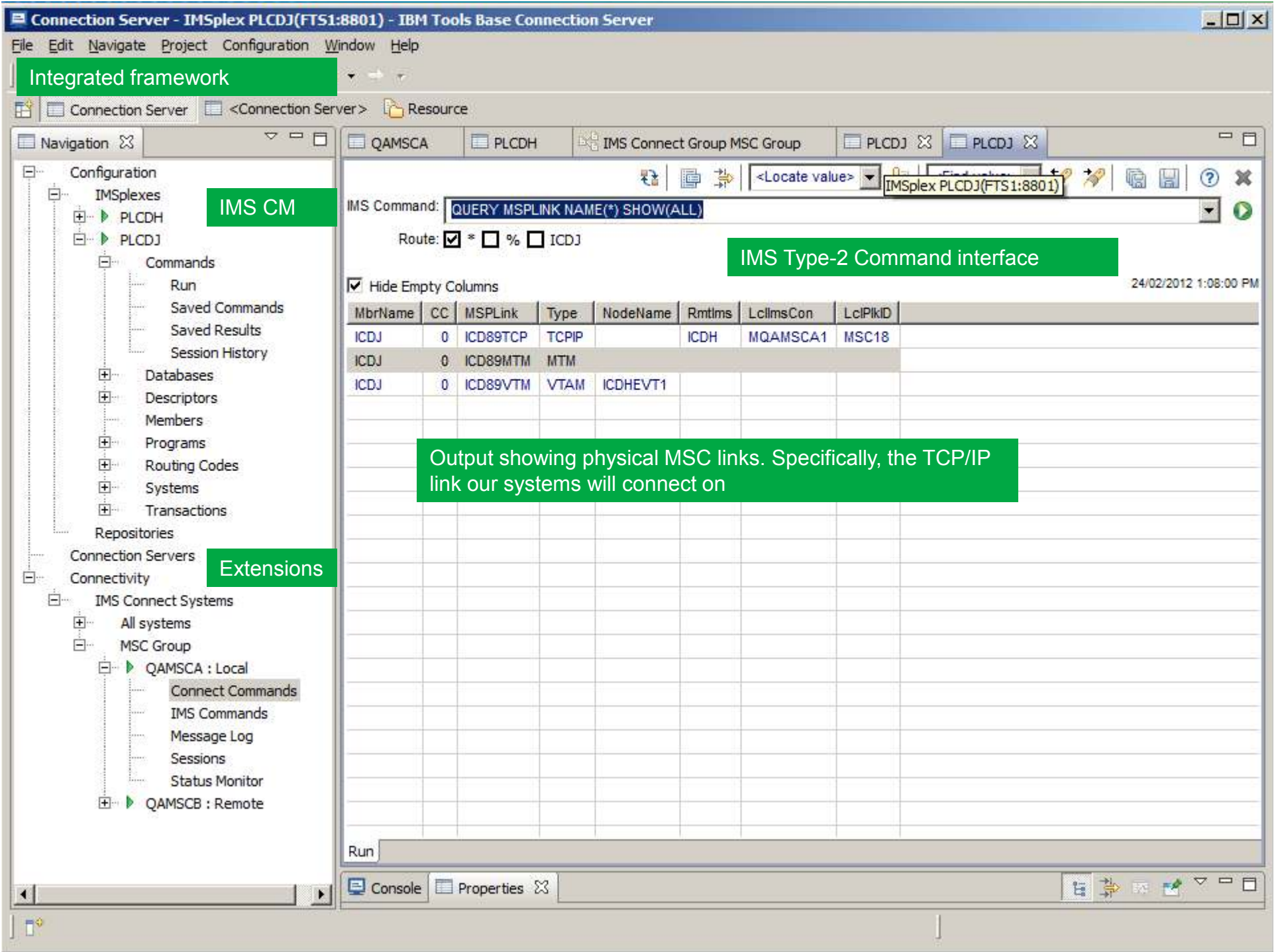



Local

```
HWS (ID=QAMSCA,RACF=N,  
RRS=N,XIBAREA=20)  
*  
ADAPTER (XML=Y)  
*  
TCPIP (HOSTNAME=TCPIP,  
RACFID=HWSDFLT,ECB=N,IPV6=N,  
TIMEOUT=8888,MAXSOC=2000,  
PORT=(ID=3801),  
EXIT=(HWSCSL00,HWSCSL01))  
*  
MSC=(LCLPLKID=MSC18,  
RMTPLKID=MSC19,  
IMSPLEX=(MEMBER=MQAMSCA1,  
TMEMBER=PLCDJ),  
LCLIMS=(ICDJ),  
RMTIMS=ICDH,  
RMTIMSCON=CONNECT1,  
GENIMSID=GIMS)  
*  
RMTIMSCON=CONNECT1,  
HOSTNAME=FTS1,  
PORT=3811,  
PERSISTENT=Y,  
RESVSOC=10)
```

Remote

```
HWS (ID=QAMSCB,RACF=N,  
RRS=N,XIBAREA=20)  
*  
ADAPTER (XML=Y)  
*  
TCPIP (HOSTNAME=TCPIP,  
RACFID=HWSDFLT,ECB=N,IPV6=N,  
TIMEOUT=8888,MAXSOC=2000,  
PORT=(ID=3811),  
EXIT=(HWSCSL00,HWSCSL01))  
*  
MSC=(LCLPLKID=MSC19,  
RMTPLKID=MSC18,  
IMSPLEX=(MEMBER=MQAMSCB1,  
TMEMBER=PLCDH),  
LCLIMS=(ICDH),  
RMTIMS=ICDJ,  
RMTIMSCON=CONNECT2,  
GENIMSID=GIMS)  
*  
RMTIMSCON=(ID=CONNECT2,  
HOSTNAME=FTS1,  
PORT=3801,  
PERSISTENT=Y,  
RESVSOC=10)
```



Connection Server - IMSplex PLCDJ(FTS1:8801) - IBM Tools Base Connection Server

File Edit Navigate Project Configuration Window Help

Connection Server <Connection Server> Resource

Navigation Configuration QAMSCA PLCDH IMS Connect Group MSC Group PLCDJ PLCDJ PLCDJ

IMS Command: `QUERY MSLINK NAME(*) SHOW(ALL)`

Route: * % ICDJ

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MSLink	MSLi...	MbrName	CC	MSPLink	PID	RecdCnt	SentCnt	DefMdtbl	Bandwidth	LclStat
MSCLK8T	1	ICDJ	0	ICD89TCP	QT	0	0		ON	STOCOMM,IDLE,NRE,SYNCSSESS
MSCLK8M	2	ICDJ	0	ICD89MTM	QM	0	0		OFF	STOCOMM,IDLE,COLDSSESS
MSCLK8V	3	ICDJ	0	ICD89VTM	QV	0	0	ISTSDCOS	OFF	STOCOMM,IDLE,COLDSSESS,SYNCS

Run

Console Properties

Same as previous but showing logical links and specifically the status.



Navigation

- Configuration
 - IMSplexes
 - PLCDH
 - PLCDJ
 - Commands
 - Run
 - Saved Commands
 - Saved Results
 - Session History
 - Databases
 - Descriptors
 - Members
 - Programs
 - Routing Codes
 - Systems
 - Transactions
 - Repositories
 - Connection Servers
 - Connectivity
 - IMS Connect Systems
 - All systems
 - MSC Group
 - QAMSCA : Local
 - Connect Commands
 - IMS Commands
 - Message Log
 - Sessions
 - Status Monitor
 - QAMSCB : Remote

QAMSCA PLCDH IMS Connect Group MSC Group PLCDJ PLCDJ PLCDJ

IMS Command: UPDATE MSLINK NAME(MSCLK8T) START(COMM)

Route: * % ICDJ

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MSLink	MSLink#	MbrName	CC
MSCLK8T	1	ICDJ	0

Starting the stopped link...

Run Saved Commands

Console Properties

Connection Server - IMSplex PLCDJ(FTS1:8801) - IBM Tools Base Connection Server

File Edit Navigate Project Configuration Window Help

Connection Server <Connection Server> Resource

Navigation QAMSCA PLCDH IMS Connect Group MSC Group PLCDJ PLCDJ PLCDJ

IMS Command: `QUERY MSLINK NAME(*) SHOW(ALL)`

Route: * % ICDJ

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MSLink	MSLi...	MbrName	CC	MSPLink	PID	RecdCnt	SentCnt	DefMdtbl	Bandwidth	LclStat
MSCLK8T	1	ICDJ	0	ICD89TCP	QT	0	0	GIMS	ON	IDLE,ACTIVE,SYNCS
MSCLK8M	2	ICDJ	0	ICD89MTM	QM	0	0		OFF	STOCOMM,IDLE,COLDS
MSCLK8V	3	ICDJ	0	ICD89VTM	QV	0	0	ISTSDCOS	OFF	STOCOMM,IDLE,COLDS

Run

Console Properties

Notice the change in the link status when we refresh the command.



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 - All systems
 - MSC Group
 - QAMSCA : Local
 - QAMSCB : Remote

Group combines the local and remote system

Viewing the active links (sessions) with IMS Connect Extensions

Session wait time (seconds): 0

Include persistent sockets Display limit (rows): 5000

Row 1 of 2

System	Session Type	Port	Client Id	MSC R/Exit Lcl. Plk. ID	MSC R/Exit Rmt. Plk. ID	MSC R/Exit Rmt. IMS	MSC R/Exit Lcl. IM
QAMSCA	MSC	8801	MSC8C283	MSC18	MSC19	ICDH	ICDJ
QAMSCB	MSC	8811	MSC38E62	MSC19	MSC18	ICDJ	ICDH

Shows RCV client activity on both ends

Status Monitor Sessions

Console Properties

Property	Value
Predicted Session Status	P007 - Waiting to send message to MSC Link=MSC19
MSC Read Exit	
MSC Read Exit Client ID	MSC8C283
MSC Read Exit Conn. UID	
MSC Read Exit Initial Client ID	MSC8C283
MSC Read Exit Ld. Plk. ID	MSC18
MSC Read Exit Ld IMS ID	ICDJ
MSC Read Exit MSC Partner ID	QT
MSC Read Exit MSC Reason Code	00
MSC Read Exit MSC Return Code	0
MSC Read Exit Name	HWSMSCX0
MSC Read Exit Original Datastore	
MSC Read Exit Reason Code	00
MSC Read Exit Remote IMS ID	ICDH
MSC Read Exit Return Code	0
MSC Read Exit Rmt. Plk. ID	MSC19
MSC Read Gen. IMS ID	GIMS

Details of a selected end-point



Navigation

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 - Saved Results
 - Session History
 - Databases
 - Descriptors
 - Members
 - Programs
 - Routing Codes
 - Systems
 - Transactions
- Repositories
 - Connection Servers
 - Connectivity
 - IMS Connect Systems
 - All systems
 - MSC Group
 - QAMSCA : Local
 - QAMSCB : Remote

QAMSCA PLCDH IMS Connect Group MSC Group PLCDJ PLCDJ

Session wait time (seconds): 0

Include persistent sockets Display limit (rows): 5000 Row 1 of 2

System ^	Session Type	Port	Client Id	MSC R/Exit Lcl. Plk. ID	MSC R/Exit Rmt. Plk. ID	MSC R/Exit Rmt. IMS	MSC R/Exit Lcl. ID
QAMSCA	MSC	8801	MSC77B81	MSC18	MSC19	ICDH	ICDJ
QAMSCB	MSC	8811	MSC16741	MSC19			ICDH

- Stop Selected Sessions
- Network Status
- Summarise/Group ...
- Refresh Immediately
- Reset Table to Default Layout

Console Properties

Property	Value
Predicted Session Status	P007 - Waiting to send message to MSC Link=MSC19
MSC Read Exit	
MSC Read Exit Client ID	MSC8C283
MSC Read Exit Conn. UID	
MSC Read Exit Initial Client ID	MSC8C283
MSC Read Exit Ld. Plk. ID	MSC18
MSC Read Exit Ld IMS ID	ICDJ
MSC Read Exit MSC Partner ID	QT
MSC Read Exit MSC Reason Code	00
MSC Read Exit MSC Return Code	0
MSC Read Exit Name	HWSMSCX0
MSC Read Exit Original Datastore	
MSC Read Exit Reason Code	00
MSC Read Exit Remote IMS ID	ICDH
MSC Read Exit Return Code	0
MSC Read Exit Rmt. Plk. ID	MSC19
MSC Read Gen. IMS ID	GIMS

Connection Server - IMS Connect System QAMSCA (FTS1:8800) - IBM Tools Base Connection Server

File Edit Navigate Project Connect Commands Window Help

Connection Server <Connection Server> Resource

Navigation Configuration

- IMSplices
 - PLCDH
 - PLCDJ
 - Commands
 - Run
 - Saved Commands
 - Saved Results
 - Session History
 - Databases
 - Descriptors
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 - QAMSCB : Remote

QAMSCA PLCDH IMS Connect Group MSC Group PLCDJ PLCDJ

Enter Command: **QUERY MSC NAME(*)**

Response:

```
12.46.51 CEX5053I QUERY MSC NAME (*)
F IMSC55A, QUERY MSC NAME (*)
HWSC0001I MSC=MSC18 STATUS=ACTIVE
HWSC0001I RMTPLKID=MSC19
HWSC0001I LCLIMSID=ICDJ RMTIMSID=ICDH
HWSC0001I GENIMSID=GIMS AFFINITY=ICDJ
HWSC0001I IMSPLEX=PLCDJ
HWSC0001I MEMBER=MQAMSCA1 TARGET MEMBER=PLCDJ
HWSC0001I RMTIMSCON=CONNECT1
HWSC0001I IP-ADDRESS=172.017.069.025 PORT=8811
HWSC0001I HOSTNAME=FTS1
HWSC0001I LINK PARTNERID STATUS SENDCLNT RECVCLNT
HWSC0001I MSCLK8T QT ACTIVE MSC44B21 MSC2EE200
CEX5055I QAMSCA Command complete
```

Response

Display limit (lines): 20000

Status Monitor Sessions Connect Commands **IMS Commands** Message Log

Console Properties

We can also run MSC commands on the individual IMS Connect systems (this command is not routed through OM)

Connection Server - IMSplex PLCDJ(FTS1:8801) - IBM Tools Base Connection Server

File Edit Navigate Project Configuration Window Help

Connection Server <Connection Server> Resource

Navigation QAMSCA PLCDH IMS Connect Group MSC Group PLCDJ PLCDJ

IMS Command: `QUERY IMSCON TYPE(SENDCLNT) SHOW(ALL)`

Route: * % ICDJ

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MbrName	CC	SendClnt	MscName	Second	SendPort	RmtImCon	Status
MQAMSCA1	0	MSC44B21	MSC18	1387	10990	CONNECT1	CONN

List of Returned Items

Run

Console Properties

Alternatively, to view active links we can submit a type-2 command to OM. IMS Connect commands are now also available as IMS (OM) Type-2 commands.

File Menu Edit Mode Navigate Filter Time Labels Options Help

```
BROWSE CEX000.QADATA.MSC.ICON.LOCAL.D111125 Record 00000127 More: < >
Command ==> Scroll ==> CSR
Forwards / Backwards . . 00.00.00.000100 Time of Day . . 08.28.20.388036
Code Description Date 2011-11-25 Friday LSN
-----
/
A07D ICON to ICON start of session 1-00000000000040
A078 MSC message received from MSC Msgtype=REQUEST 1-00000000000041
A0A3 Event Collection OTMA Trace 1-00000000000042
A03D Message Exit called for XMIT 1-00000000000043
A0A6 Event Recording EXIT Output Message Trace 1-00000000000044
A03E Message Exit returned from XMIT 1-00000000000045
A079 MSC message sent to remote ICON Msgtype=REQUEST 1-00000000000046
A03C Prepare READ Socket 2-00000000000040
A049 READ Socket 2-00000000000041
A0A4 Event Collection IRM Trace 2-00000000000042
A03D Message Exit called for READ 2-00000000000043
A0A3 Event Collection OTMA Trace 2-00000000000044
A03E Message Exit returned from READ 2-00000000000045
A07D ICON to ICON start of session 2-00000000000046
A07A MSC message received from remote ICON Msgtype=REQUEST 2-00000000000047
A07B MSC message sent to MSC Msgtype=REQUEST 2-00000000000048
A078 MSC message received from MSC Msgtype=REQRESP 2-00000000000049
A0A3 Event Collection OTMA Trace 2-0000000000004A
A03D Message Exit called for XMIT 2-0000000000004B
A0A6 Event Recording EXIT Output Message Trace 2-0000000000004C
A03E Message Exit returned from XMIT 2-0000000000004D
A079 MSC message sent to remote ICON Msgtype=REQRESP 2-0000000000004E
A07E ICON to ICON end of session 2-0000000000004F
A03C Prepare READ Socket 1-00000000000047
A049 READ Socket 1-00000000000048
A0A4 Event Collection IRM Trace 1-00000000000049
A03D Message Exit called for READ 1-0000000000004A
A0A3 Event Collection OTMA Trace 1-0000000000004B
A03E Message Exit returned from READ 1-0000000000004C
A07A MSC message received from remote ICON Msgtype=REQRESP 1-0000000000004D
A07B MSC message sent to MSC Msgtype=REQRESP 1-0000000000004E
A07E ICON to ICON end of session 1-0000000000004F
A078 MSC message received from MSC Msgtype=REQRESP 1-00000000000050
A0A3 Event Collection OTMA Trace 1-00000000000051
A03D Message Exit called for XMIT 1-00000000000052
A0A6 Event Recording EXIT Output Message Trace 1-00000000000053
```

Notification of transaction coming from IMS

Hand-over to remote IMS Connect (using TCP/IP)

Hand-over to remote IMS

Response from remote IMS

Response to local IMS Connect (using TCP/IP)

Response to local IMS Connect passed to local IMS

File Menu Edit Mode Navigate Filter Time Labels Options Help

BROWSE CEX000.QADATA.MSC.ICON.LOCAL.D111125 Record 00000237 More: < >
Command ==> Scroll ==> CSR
Forwards / Backwards . . 00.00.00.000100 Time of Day . . 08.28.20.388036
Code Description Date 2011-11-25 Friday Time (Relative)

Transaction initiated in local IMS

```
01 Input Message TranCode=PRT1 -0.002144
35 Input Message Enqueue TranCode=PRT1 -0.002115
31 Comms GU for SMB TranCode=PRT1 -0.002037
66 Standard 3600 -0.001985
A07D ICON to ICON start of session 10.47.18.384277
A078 MSC message received from MSC Msgtype=REQUEST +0.000021
A0A3 Event Collection OTMA Trace +0.000125
A03D Message Exit called for XMIT +0.000149
A0A6 Event Recording EXIT Output Message Trace +0.000184
A03E Message Exit returned from XMIT +0.000189
A079 MSC message sent to remote ICON Msgtype=REQUEST +0.000456
```

Transaction executing in remote IMS

```
...
_ A07B MSC message sent to MSC Msgtype=REQUEST 2-00000000000048
_ A078 MSC message received from MSC Msgtype=REQRESP 2-00000000000049
...
```

```
A03E Message EXIT returned from READ +0.001123
A07D ICON to ICON start of session +0.001137
A07A MSC message received from remote ICON Msgtype=REQUEST +0.001143
A07B MSC message sent to MSC Msgtype=REQUEST +0.001368
66 Standard 3600 +0.001499
01 Input Message TranCode=PRT1 +0.003310
35 Input Message Enqueue TranCode=PRT1 +0.003330
66 Standard 3600 +0.004766
08 Application Start TranCode=PRT1 Region=0003 +0.005110
5607 Start of UOR Program=DFSSAM31 Region=0003 +0.005112
31 DLI GU TranCode=PRT1 Region=0003 +0.005150
5616 Start of protected UOW Region=0003 +0.005541
A078 MSC message received from MSC Msgtype=REQRESP +0.005853
A0A3 Event Collection OTMA Trace +0.005943
A03D Message Exit called for XMIT +0.005952
A0A6 Event Recording EXIT Output Message Trace +0.005978
A03E Message Exit returned from XMIT +0.005998
A079 MSC message sent to remote ICON Msgtype=REQRESP +0.006137
A07E ICON to ICON end of session +0.006152
A03C Prepare READ Socket +0.006404
```

Using PassTickets

- PassTickets allow mutual authentication between MSC IMS Connect systems
- Configuring PassTickets is done by using RACF or other security manager
- You need to activate security in your HWSCFG and you need to supply an APPL and USERID as a parameter on the RMTIMSCON
- By default a RACF PassTicket is for a single use and valid for 10 min only.
 - Specify NO REPLAY PROTECTION to the APPLDATA field of the PTKTDATA profile for the application
 - Ensures PassTicket remains valid
 - Failure to use no replay protection will cause this error:

```
IRR013I  VERIFICATION FAILED. INVALID PASSWORD GIVEN.  
HWSP1507E CONNECTION SECURITY ERROR; C=MSC67661, U=CEX1,  
A=CEXTEST , SAFRC=8, RACFRC=8, RACFRSN=0, M=MSCX
```

IMS to IMS TCP/IP connections for OTMA

- Allows TCP/IP connection between IMS systems using an ALTPCB
- An IMS to IMS TCP/IP connection delivers OTMA messages in only one direction
- Any response messages are queued to a TPIPE hold queue for asynchronous retrieval
- Does not require configuring an IMSPLEX: uses base IMS and IMS Connect resources
- Uses new RMTIMSCON statement in HWSCFG to define the TCP/IP link to the remote system

Configuring IMS to IMS TCP/IP OTMA



DFSYDTx

```
M QARMTA          T/O=120
D QADESC1  TYPE=IMSCON TMEMBER=Q01IMDA RMTIMSCON=QARMTB .RMTIMS=IMDB
```

HWSCFG(local)

```
HWS (ID=QARMTA,
RACF=N,RRS=N,XIBAREA=20)
*
ADAPTER (XML=Y)
*
TCPIP (HOSTNAME=TCPIP,
RACFID=HWSDFLT,ECB=N,IPV6=N,
TIMEOUT=8888,
MAXSOC=2000,
PORT=(ID=8801),
EXIT=(HWSCSLO0,HWSCSLO1))
*
DATASTORE (ID=IMDA,GROUP=XCFGDEVT,
MEMBER=Q01IMDA TMEMBER=XCFMICDJ)
*
RMTIMSCON=(ID=QARMTB
HOSTNAME=FTS1,
PORT=8811
IDLETO=300000,
AUTOCONN=Y,
PERSISTENT=Y,
RESVSOC=0)
```

HWSCFG(remote)

```
HWS (ID=QARMTB,
RACF=N,RRS=N,XIBAREA=20)
*
ADAPTER (XML=Y)
*
TCPIP (HOSTNAME=TCPIP,
RACFID=HWSDFLT,ECB=N,IPV6=N,
TIMEOUT=8888,
MAXSOC=2000,
PORT=(ID=8811),
EXIT=(HWSCSLO0,HWSCSLO1))
*
DATASTORE (ID=IMDB,GROUP=XCFGDEVT,
MEMBER=Q01IMDB,TMEMBER=XCFMICDJ)
*
```


Issue: remember it is asynchronous



DFSYDTx(local)

```
M QARMTA          T/O=120
D QADESC1  TYPE=IMSCON TMEMBER=Q01IMDA
              RMTIMSCON=QARMTB RMTIMS=IMDB
```

DFSYDTx(remote)

```
M QARMTB          T/O=120
D QADESC1  TYPE=IMSCON TMEMBER=Q01IMDB
              RMTIMSCON=QARMTA RMTIMS=IMDA
```

Risk of transactions looping around

HWSCFG(local)

```
HWS (ID=QARMTA,
RACF=N,RRS=N,XIBAREA=20)
*
ADAPTER (XML=Y)
*
TCPIP (HOSTNAME=TCPIP,
RACFID=HWSDFLT,ECB=N,IPV6=N,
TIMEOUT=8888,
MAXSOC=2000,
PORT=(ID=8801),
EXIT=(HWSCSLO0,HWSCSLO1))
*
DATASTORE (ID=IMDA,GROUP=XCFGDEVT,
MEMBER=Q01IMDA,TEMBER=XCFMICDJ)
*
RMTIMSCON=(ID=QARMTB,
HOSTNAME=FTS1,
PORT=8811,
IDLETO=300000,
AUTOCONN=Y,
PERSISTENT=Y,
RESVSOC=0)
```

HWSCFG(remote)

```
HWS (ID=QARMTB,
RACF=N,RRS=N,XIBAREA=20)
*
ADAPTER (XML=Y)
*
TCPIP (HOSTNAME=TCPIP,
RACFID=HWSDFLT,ECB=N,IPV6=N,
TIMEOUT=8888,
MAXSOC=2000,
PORT=(ID=8811),
EXIT=(HWSCSLO0,HWSCSLO1))
*
DATASTORE (ID=IMDB,GROUP=XCFGDEVT,
MEMBER=Q01IMDB,TEMBER=XCFMICDJ)
*
RMTIMSCON=(ID=QARMTA,
HOSTNAME=FTS1,
PORT=8801,
IDLETO=300000,
AUTOCONN=Y,
PERSISTENT=Y,
RESVSOC=0)
```

IMS to IMS OTMA: IMS log



File Menu Edit Mode Navigate Filter Time Labels Options Help

```
BROWSE      CEX000.QADATA.ICN2ICN.IMS.LOCAL.D120301      Record 00000036 More: < >
Command ==> _____ Scroll ==> CSR
  Forwards / Backwards . . 00.00.00.000100      Time of Day . . 08.28.20.388036
Code Description _____ Date 2012-03-01 Thursday Time (Relative)
/ -----
__ 01  Input Message TranCode=JLMTRAN1 Source=Connect      18.46.46.800055
__ 35  Input Message Enqueue TranCode=JLMTRAN1             +0.000137
__ 31  DLI GU TranCode=JLMTRAN1 Region=0001                +0.000557
__ 5616 Start of protected UOW Region=0001                 +0.001571
__ 03  Output Message LTerm=LTAJLM Source=OTMA             +0.009977
__ 35  Output Message Enqueue LTerm=LTAJLM Region=0001    +0.010014
__ 5610 Syncpoint Start of Phase 1 Region=0001            +0.012426
__ 3730 Syncpoint End of Phase 1 Region=0001              +0.012489
__ 37  Syncpoint Message Transfer Region=0001             +0.012540
__ 33  Free Message                                         +0.012577
__ 5612 Syncpoint End of Phase 2 Program=JLMPGM01 Region=0001 +0.012605
__ 31  Communications GU LTerm=LTAJLM                      +0.013438
__ 36  Output Message Dequeue LTerm=LTAJLM                 +0.021265
__ 33  Free Message                                         +0.021294
***** Bottom of Data *****
```


File Menu Edit Mode Navigate Filter Time Labels Options Help

```
BROWSE      CEX000.QADATA.ICN2ICN.ICON.LOCAL.D120301      Extended Tracking active
Command ==> Scroll ==> CSR
  Forwards / Backwards . . 00.00.00.000100      Time of Day . . 08.28.20.388036
Code Description                      Date 2012-03-01 Thursday      LSN
/ -----
___ A07D ICON to ICON start of session      1-00000000000002E
___ A0A3 Event Collection OTMA Trace      1-00000000000002F
___ A074 Msg received from OTMA for remote ALTPCB      1-000000000000030
___ A0A3 Event Collection OTMA Trace      1-000000000000033
___ A03D Message Exit called for XMIT      1-000000000000034
___ A0A6 Event Recording EXIT Output Message Trace      1-000000000000035
___ A03E Message Exit returned from XMIT      1-000000000000036
___ A075 Msg sent to remote ICON for ALTPCB Msgtype=REQUEST      1-000000000000037
___ A07D ICON to ICON start of session      2-000000000000026
___ A076 Msg received from remote ICON for ALTPCB      2-000000000000027
___ A0A3 Event Collection OTMA Trace      2-000000000000028
___ A077 Msg sent to OTMA for ALTPCB Msgtype=REQUEST      2-000000000000029
___ A0A3 Event Collection OTMA Trace      2-00000000000002A
___ A074 Msg received from OTMA for remote ALTPCB      2-00000000000002B
___ A075 Msg sent to remote ICON for ALTPCB Msgtype=ACK/NACK      2-000000000000031
___ A07E ICON to ICON end of session      2-000000000000032
___ A0A4 Event Collection IRM Trace      1-000000000000038
___ A03D Message Exit called for READ      1-000000000000039
___ A0A3 Event Collection OTMA Trace      1-00000000000003A
___ A03E Message Exit returned from READ      1-00000000000003B
___ A076 Msg received from remote ICON for ALTPCB      1-00000000000003C
___ A0A3 Event Collection OTMA Trace      1-00000000000003D
___ A077 Msg sent to OTMA for ALTPCB Msgtype=ACK/NACK      1-00000000000003E
___ A07E ICON to ICON end of session      1-00000000000003F
***** Bottom of Data *****
```



RE
Results

File Menu Edit Mode Navigate Filter Time Labels Options Help

```

BROWSE      CEX000.QADATA.ICN2ICN.ICON.LOCAL.D120301  Record 00000087 More: < >
Command ==> Scroll ==> CSR
  Forwards / Backwards . . 00.00.00.000100  Time of Day . . 08.28.20.388036
  Code Description                               Date 2012-03-01 Thursday  LSN
/  -----
__ A03C Prepare READ Socket                      2-00000000000020
__ A049 READ Socket                              2-00000000000021
__ A0A4 Event Collection IRM Trace                2-00000000000022
__ A03D Message Exit called for READ             2-00000000000023
__ A0A3 Event Collection OTMA Trace              2-00000000000024
__ A03E Message Exit returned from READ TranCode=JLMTRAN1 2-00000000000025
__ A07D ICON to ICON start of session            2-00000000000026
__ A076 Msg received from remote ICON for ALTPCB 2-00000000000027
__ A0A3 Event Collection OTMA Trace              2-00000000000028
__ A077 Msg sent to OTMA for ALTPCB Msgtype=REQUEST 2-00000000000029
__ A0A3 Event Collection OTMA Trace              2-0000000000002A
__ A074 Msg received from OTMA for remote ALTPCB 2-0000000000002B
__ A0A3 Event Collection OTMA Trace              2-0000000000002C
__ A03D Message Exit called for XMIT            2-0000000000002D
__ A0A6 Event Recording EXIT Output Message Trace 2-0000000000002E
__ A03E Message Exit returned from XMIT         2-0000000000002F
__ A04A WRITE Socket                             2-00000000000030
__ A075 Msg sent to remote ICON for ALTPCB Msgtype=ACK/NACK 2-00000000000031
__ A07E ICON to ICON end of session             2-00000000000032
__ A048 Trigger Event for MESSAGE               2-00000000000033

```

Connection Server - IMS Connect System QAMSCA (FTS1:8800) - IBM Tools Base Connection Server

File Edit Navigate Project Connect Commands Window Help

Miscellaneous: New in IMS V12 is the ability to refresh the XML Adapters

Connection Server <Connection Server> Resource

Navigation QAMSCA PLCDH IMS Connect Group MSC Group PLCDJ PLCDJ

Configuration

- IMSplexes
 - PLCDH
 - PLCDJ
 - Commands
 - Run
 - Saved Commands
 - Saved Results
 - Session History
 - Databases
 - Descriptors
 - Members
 - Programs
 - Routing Codes
 - Systems
 - Transactions
 - Repositories
- Connection Servers
- Connectivity
 - IMS Connect Systems
 - All systems
 - MSC Group
 - QAMSCA : Local
 - Connect Commands
 - IMS Commands
 - Message Log
 - Sessions
 - Status Monitor
 - QAMSCB : Remote

Enter Command: UPDATE CONVERTER NAME(IMSPHBKD) OPTION(REFRESH)

Response: 13.07.24 CEX5053I UPDATE CONVERTER NAME (IMSPHBKD) OPTION (REFRESH)
F IMSC55A,UPDATE CONVERTER NAME (IMSPHBKD) OPTION (REFRESH)
HWSA0375I XML CONVERTER IMSPHBKD WAS SUCCESSFULLY REFRESHED, M=XMLA
CEX5055I QAMSCA Command complete

Display limit (lines): 20000

Status Monitor Sessions Connect Commands IMS Commands Message Log

Console Properties

Conclusions

- IMS to IMS TCP/IP communication provides opportunities for reducing network costs and improving performance
- Configuration and on going administration creates a number of challenges
- Awareness of the challenges and complexities is the key to a successful implementation

More information

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