

ASF 3.3 with CICS Document Connect for ASF

Installation on AIX Server
Setup Server-to-Host Connection using
WebSphere MQ

Edition: 1.1

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1 MQ Definitions under AIX

1.1 Define the MQ Objects

First create and start a queue manager (for example PASF33Q) using the following commands:

```
crtmqm PASF33Q
strmqm PASF33Q
```

Use the following MQSC commands to define a sender, a receiver channel, two local queues, one remote queue and a process for each connection.

```
DEFINE CHANNEL(ASF33DB2.ORX64A.TCP) CHLTYPE(SDR) CONNAME('9.152.87.231(1415)') TRPTYPE(TCP)
XMITQ(ASF33DB2) DISCONT(0)
DEFINE CHANNEL(ORX64A.ASF33DB2.TCP) CHLTYPE(RCVR) TRPTYPE(TCP)
DEFINE QLOCAL(REPLY.ASF33DB2) PUT(ENABLED) GET(ENABLED) USAGE(NORMAL)
DEFINE QLOCAL(ASF33DB2) PUT(ENABLED) GET(ENABLED) USAGE(XMITQ) PROCESS(PROC.QE71)
DEFINE QREMOTE(ASF33DB2.ALIAS) PUT(ENABLED) RNAME(QUERY.ORX64A.ASF33DB2) RQMNAME(QE71)
XMITQ(ASF33DB2)
DEFINE PROCESS(PROC.QE71) APPLTYPE(UNIX)
```

The MQSC commands can be defined in a file with a name of your choice, for example MQDefinition.txt. They can be executed with the following command:

```
rummyqsc PASF33Q </MQDefinition.txt
```

Note: PASF33Q is the name of the AIX queue manager as defined above.

1.2 Define a TCP/IP connection

The “inetd” daemon on the server must be configured to start the MQI channels. To proceed, log on as root and configure the following files:

1. Add a line in the /etc/services file:

```
MQSeries      1414/tcp
```

where 1414 is the port number required.

Note: 1414 is the default value of the port number.

Alternatively, you can use a different port number, for example 1415. To do so add the line:

```
MQSeries      1415/tcp
```

2. Add a line in the file `inetd.conf` to call the program `amqcrsta`:

```
MQSeries stream tcp nowait root /mqmtop/bin/amqcrsta amqcrsta  
[-m PASF33Q]  
  PASF33Q is the queue manager name  
  mqmtop is the installation directory
```

Note:
Your input is case sensitive.

3. The updates are active after you issue the following command from the root user ID:

```
refresh -s inetd
```

1.3 Run the MQ Listener and start the Sender channel

To run the listener supplied with MQSeries use the `RUNMQLSR` command:

```
runmqlsr -t tcp -m PASF33Q -p 1415  
  
-m PASF33Q is the queue manager  
-p 1415 is the port
```

To start the sender channel use the `RUNMQCHL` command:

```
runmqchl -c ASF33I7.ORX64A.TCP -m PASF33Q
```

2 MQ Definitions under z/OS

The MQ definitions are done within queue manager QE71 listening to port 1415.

For each connection the following definitions are needed:

- A local queue
- A remote queue
- An XMIT queue
- A sender channel
- A receiver channel
- A process
- An initiation queue

2.1 Define a Local (Query) Queue (from AIX)

Session B - [24 x 80]
File Edit View Communication Actions Window Help

Display a Local Queue - 1

Press F8 to see further fields, or Enter to refresh details.

```
Queue name . . . . . : QUERY. ORX64A. ASF33DB2          More:  +
Disposition . . . . . : QMGR   QE71
Description . . . . . : QUERIES from ASF33DB2

Put enabled . . . . . : Y  Y=Yes, N=No
Get enabled . . . . . : Y  Y=Yes, N=No
Usage . . . . . : N  N=Normal, X=XmitQ
Storage class . . . . . : DEFAULT
CF structure name . . . . . :
Creation method . . . . . : PREDEFINED

Page set identifier . . . . . : 4
Use counts - Output . . . . . : 0          Input . . . . . : 1
Current queue depth . . . . . : 0
```

Command ==>

F1=Help	F2=Split	F3=Exit	F6=Clusinfo	F7=Bkwd	F8=Fwd
F9=Swap	F10=Messages	F11=Appls	F12=Cancel		

MA b 06/032

Connected to remote server/host tn3270.de.ibm.com using port 23

Press **F8**.

Session B - [24 x 80]
File Edit View Communication Actions Window Help

Display a Local Queue - 2

Press F7 or F8 to see other fields, or Enter to refresh details.

```
Queue name . . . . . : QUERY. ORX64A. ASF33DB2          More:  - +
Disposition . . . . . : QMGR   QE71

Cluster name . . . . . :
Cluster namelist name . . . . . :
Default bind . . . . . : 0  0=Open, N=Notfixed
```

Command ==>

F1=Help	F2=Split	F3=Exit	F6=Clusinfo	F7=Bkwd	F8=Fwd
F9=Swap	F10=Messages	F11=Appls	F12=Cancel		

MA b 22/015

Connected to remote server/host tn3270.de.ibm.com using port 23

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 3
Press F7 or F8 to see other fields, or Enter to refresh details.
More: - +
Queue name . . . . . : QUERY.0RX64A.ASF33DB2
Disposition . . . . . : QMGR      QE71
Default persistence . . . . . : N  Y=Yes, N=No
Default priority . . . . . : 5  0 - 9
Message delivery sequence . . . . . : F  P=Priority, F=FIFO
Permit shared access . . . . . : Y  Y=Yes, N=No
Default share option . . . . . : S  E=Exclusive, S=Shared
Index type . . . . . : N  N=None, M=MsgId, C=CorrelId, G=GroupId,
                          T=MsgToken
Maximum queue depth . . . . . : 10000      0 - 999999999
Maximum message length . . . . . : 4194304    0 - 104857600
Command ==>
F1=Help      F2=Split      F3=Exit      F6=Clusinfo  F7=Bkwd      F8=Fwd
F9=Swap      F10=Messages  F11=Appls   F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 4
Press F7 or F8 to see other fields, or Enter to refresh details.
More: - +
Queue name . . . . . : QUERY.0RX64A.ASF33DB2
Disposition . . . . . : QMGR      QE71
Trigger Definition
Trigger type . . . . . : F  F=First, E=Every, D=Depth, N=None
Trigger set . . . . . : Y  Y=Yes, N=No
Trigger message priority : 0  0 - 9
Trigger depth . . . . . : 1  1 - 999999999
Initiation queue . . . . . : ASF33DB2.INITQ
Process name . . . . . : CICWEB1C
Trigger data . . . . . :
Command ==>
F1=Help      F2=Split      F3=Exit      F6=Clusinfo  F7=Bkwd      F8=Fwd
F9=Swap      F10=Messages  F11=Appls   F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

The process name CICWEB1C is described in „Define a Process“. The initiation queue ASF33DB2.INITQ is described in „Define a Initiation Queue“ and „MQ and CICS Bridge“.

Press **F8**.

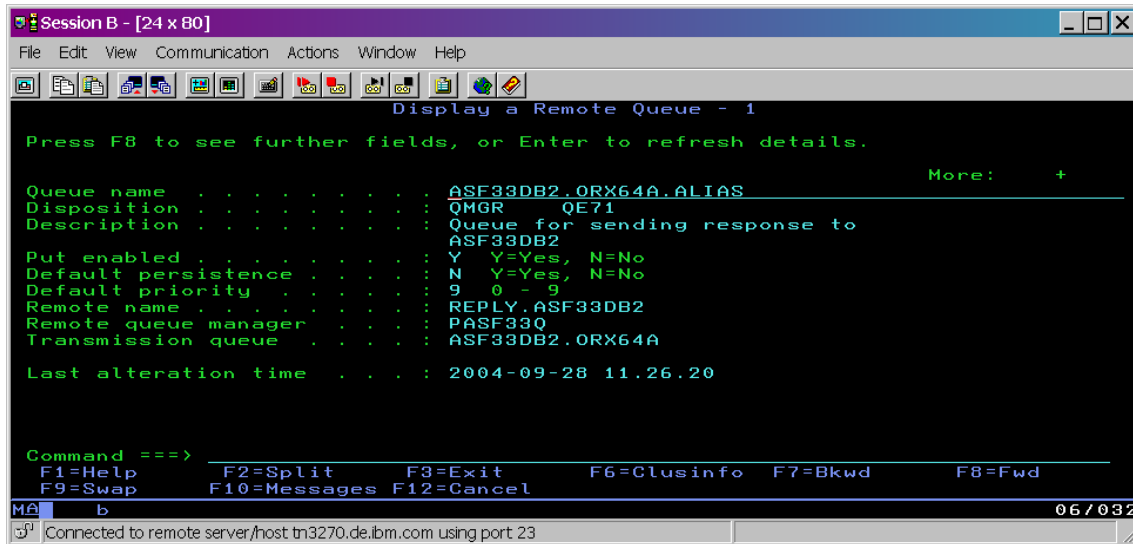
```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 5
Press F7 or F8 to see other fields, or Enter to refresh details.
Queue name . . . . . : QUERY.0RX64A.ASF33DB2
Disposition . . . . . : QMGR QE71
Event Control
Queue full . . . . . : E E=Enabled, D=Disabled
Upper queue depth . . . : D E=Enabled, D=Disabled
Threshold . . . . . : 80 0 - 100 %
Lower queue depth . . . : D E=Enabled, D=Disabled
Threshold . . . . . : 40 0 - 100 %
Service interval . . . . : N H=High, O=OK, N=None
Interval . . . . . : 999999999 0 - 999999999 milliseconds
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host: tn3270.de.ibm.com using port: 23
```

Press **F8**.

```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 6
Press F7 to see previous fields, or Enter to refresh details.
Queue name . . . . . : QUERY.0RX64A.ASF33DB2
Disposition . . . . . : QMGR QE71
Backout Reporting
Backout threshold . . . : 0 0 - 999999999
Harden backout counter . : N Y=Yes, N=No
Backout requeue name . . :
Retention interval . . . : 999999999 0 - 999999999 hours
Creation time . . . . . : 2004-09-28 11.15.06
Last alteration time . . : 2004-09-28 11.15.06
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host: tn3270.de.ibm.com using port: 23
```

Press **F3** to finish.

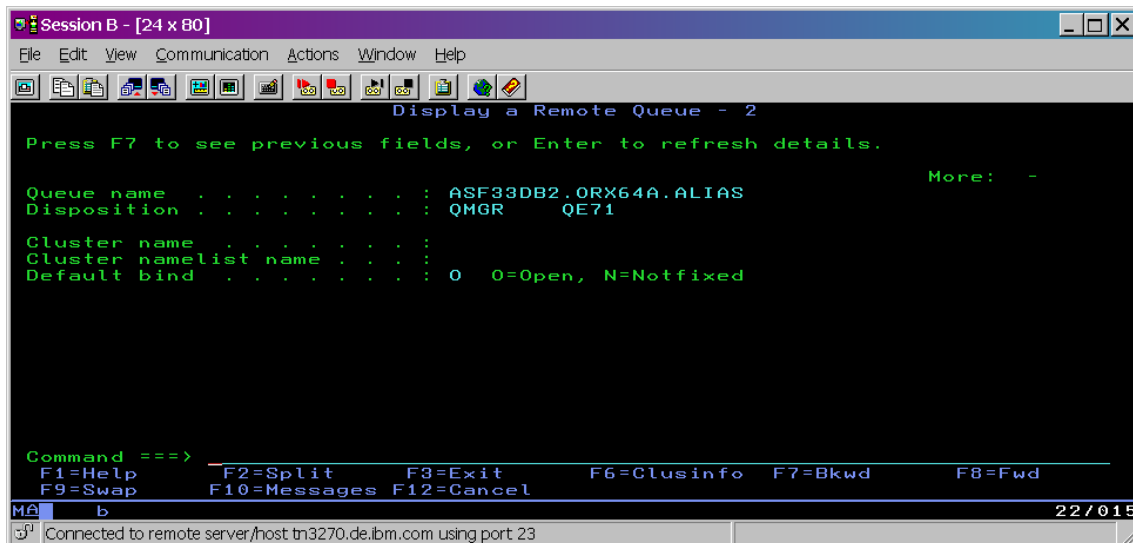
2.2 Define a Remote Queue (to AIX)



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Remote Queue - 1
Press F8 to see further fields, or Enter to refresh details.
More: +
Queue name . . . . . : ASF33DB2.0RX64A.ALIAS
Disposition . . . . . : QMGR   QE71
Description . . . . . : Queue for sending response to
                        ASF33DB2
Put enabled . . . . . : Y   Y=Yes, N=No
Default persistence . . . . . : N   Y=Yes, N=No
Default priority . . . . . : 9   0 - 9
Remote name . . . . . : REPLY.ASF33DB2
Remote queue manager . . . . . : PASF33Q
Transmission queue . . . . . : ASF33DB2.0RX64A
Last alteration time . . . . . : 2004-09-28 11.26.20
Command ==>
F1=Help      F2=Split    F3=Exit      F6=Clusinfo  F7=Bkwd      F8=Fwd
F9=Swap      F10=Messages F12=Cancel
MA b 06/032
Connected to remote server/host tn3270.de.ibm.com using port 23
```

The remote name must match the queue name defined on AIX and the name of the remote queue manager must match name of the AIX queue manager. The name of the transmission queue must match the name of the remote queue manager. If this is not the case, there must exist a transmission queue with the name of the remote queue manager (PASF33Q).

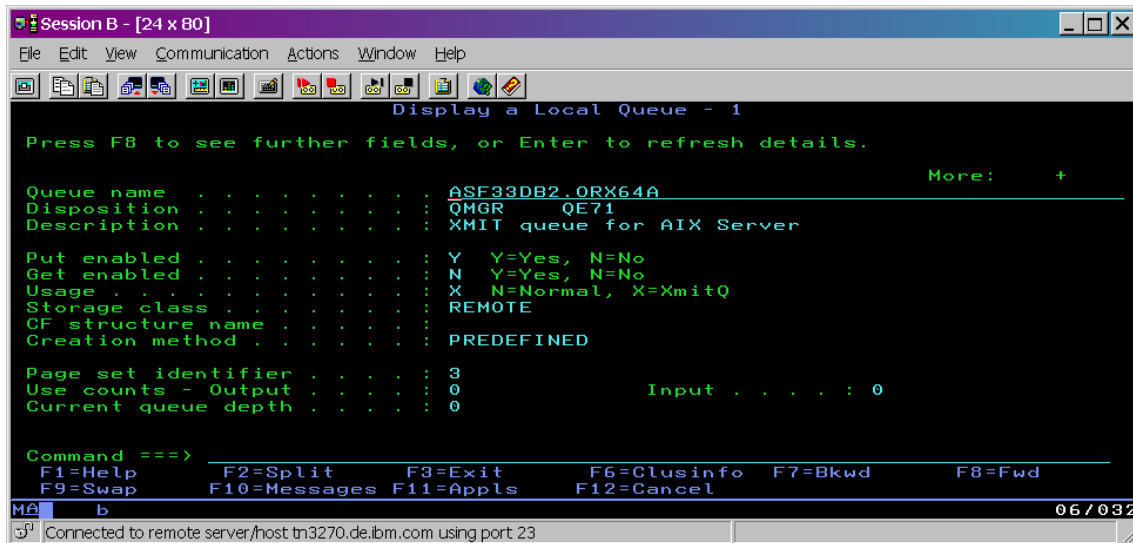
Press **F8**.



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Remote Queue - 2
Press F7 to see previous fields, or Enter to refresh details.
More: -
Queue name . . . . . : ASF33DB2.0RX64A.ALIAS
Disposition . . . . . : QMGR   QE71
Cluster name . . . . . :
Cluster namelist name . . . . . :
Default bind . . . . . : 0   0=Open, N=Notfixed
Command ==>
F1=Help      F2=Split    F3=Exit      F6=Clusinfo  F7=Bkwd      F8=Fwd
F9=Swap      F10=Messages F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23
```

Press **F3** to finish.

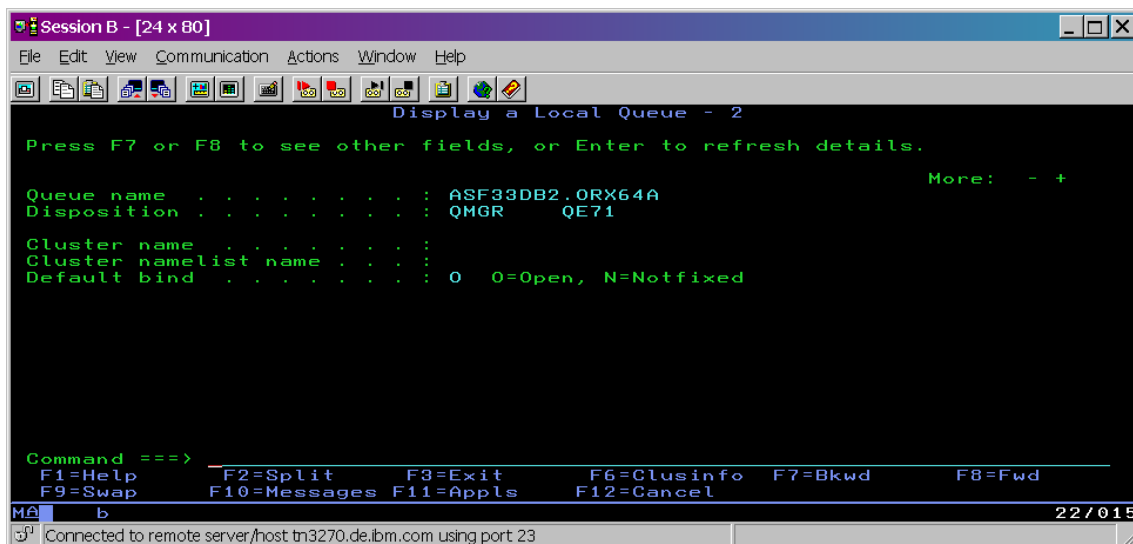
2.3 Define an Xmit Queue



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 1
Press F8 to see further fields, or Enter to refresh details.
More: +
Queue name . . . . . : ASF33DB2.ORX64A
Disposition . . . . . : QMGR QE71
Description . . . . . : XMIT queue for AIX Server
Put enabled . . . . . : Y Y=Yes, N=No
Get enabled . . . . . : N Y=Yes, N=No
Usage . . . . . : X N=Normal, X=XmitQ
Storage class . . . . . : REMOTE
CF structure name . . . . . :
Creation method . . . . . : PREDEFINED
Page set identifier . . . . . : 3
Use counts - Output . . . . . : 0 Input . . . . . : 0
Current queue depth . . . . . : 0
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 06/032
Connected to remote server/host tn3270.de.ibm.com using port 23
```

If there is more than one sender channel (systems), a separate xmit queue must exist for each channel. The name of one xmit queue must match the name of the AIX queue manager (PASF33Q) or the remote queue name (to AIX) and the queue manager name must be specified in the DocNetworkConfiguration.xml under AIX (parameters host reply queue and host queue manager).

Press **F8**.



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 2
Press F7 or F8 to see other fields, or Enter to refresh details.
More: - +
Queue name . . . . . : ASF33DB2.ORX64A
Disposition . . . . . : QMGR QE71
Cluster name . . . . . :
Cluster namelist name . . . . . :
Default bind . . . . . : 0 0=Open, N=Notfixed
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23
```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 3
Press F7 or F8 to see other fields, or Enter to refresh details.
More: - +
Queue name . . . . . : ASF33DB2.0RX64A
Disposition . . . . . : QMGR QE71
Default persistence . . . . . : Y Y=Yes, N=No
Default priority . . . . . : 0 0 - 9
Message delivery sequence . . . . . : F P=Priority, F=FIFO
Permit shared access . . . . . : Y Y=Yes, N=No
Default share option . . . . . : E E=Exclusive, S=Shared
Index type . . . . . : N N=None, M=MsgId, C=CorrelId, G=GroupId,
T=MsgToken
Maximum queue depth . . . . . : 999999999 0 - 999999999
Maximum message length . . . . . : 4194304 0 - 104857600
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host:tn3270.de.ibm.com using port 23

```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 4
Press F7 or F8 to see other fields, or Enter to refresh details.
More: - +
Queue name . . . . . : ASF33DB2.0RX64A
Disposition . . . . . : QMGR QE71
Trigger Definition
Trigger type . . . . . : N F=First, E=Every, D=Depth, N=None
Trigger set . . . . . : N Y=Yes, N=No
Trigger message priority : 0 0 - 9
Trigger depth . . . . . : 1 1 - 999999999
Initiation queue . . . . . :
Process name . . . . . :
Trigger data . . . . . :
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host:tn3270.de.ibm.com using port 23

```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 5
Press F7 or F8 to see other fields, or Enter to refresh details.
Queue name . . . . . : ASF33DB2.0RX64A
Disposition . . . . . : QMGR QE71
Event Control
Queue full . . . . . : E E=Enabled, D=Disabled
Upper queue depth . . . : D E=Enabled, D=Disabled
Threshold . . . . . : 80 0 - 100 %
Lower queue depth . . . : D E=Enabled, D=Disabled
Threshold . . . . . : 40 0 - 100 %
Service interval . . . . : N H=High, O=OK, N=None
Interval . . . . . : 999999999 0 - 999999999 milliseconds
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

Press **F8**.

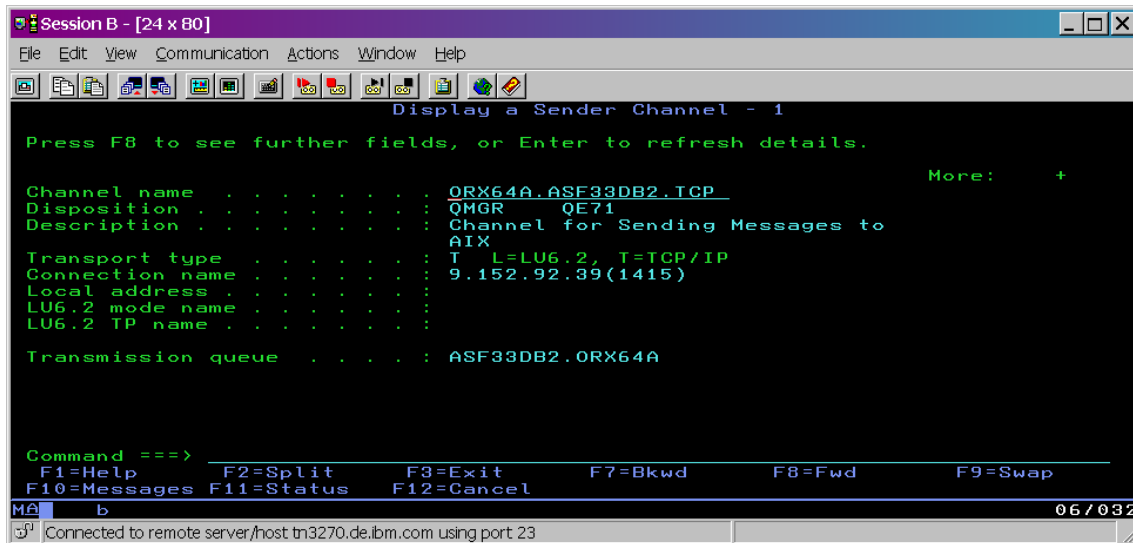
```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 6
Press F7 to see previous fields, or Enter to refresh details.
Queue name . . . . . : ASF33DB2.0RX64A
Disposition . . . . . : QMGR QE71
Backout Reporting
Backout threshold . . . : 0 0 - 999999999
Harden backout counter . : N Y=Yes, N=No
Backout requeue name . . :
Retention interval . . . : 999999999 0 - 999999999 hours
Creation time . . . . . : 2004-09-28 12.29.37
Last alteration time . . : 2004-11-12 11.51.42
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

Press **F3** to finish.

2.4 Define a Sender Channel

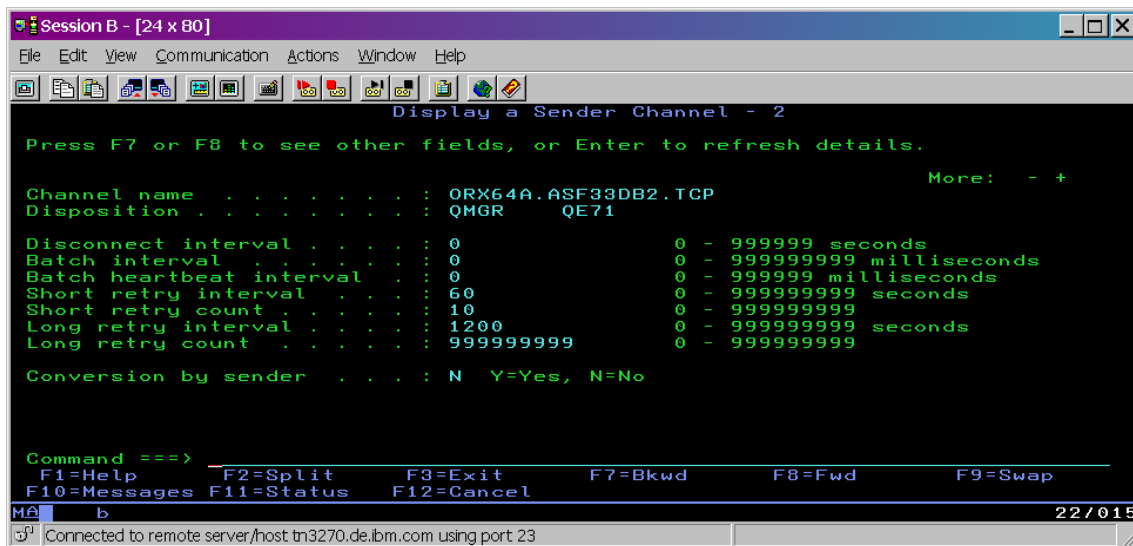


```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Sender Channel - 1
Press F8 to see further fields, or Enter to refresh details.
Channel name . . . . . : ORX64A.ASF33DB2.TCP
Disposition . . . . . : QMGR QE71
Description . . . . . : Channel for Sending Messages to
                        AIX
Transport type . . . . . : T L=LU6.2, T=TCP/IP
Connection name . . . . . : 9.152.92.39(1415)
Local address . . . . . :
LU6.2 mode name . . . . . :
LU6.2 TP name . . . . . :
Transmission queue . . . . . : ASF33DB2.ORX64A
More: +
Command ==>
F1=Help      F2=Split    F3=Exit     F7=Bkwd     F8=Fwd      F9=Swap
F10=Messages F11=Status  F12=Cancel
MA b 06 / 032
Connected to remote server/host tn3270.de.ibm.com using port 23
```

The sender channel name must match the receiver channel name in AIX. The connection name is the TCP/IP name of the AIX server plus the AIX port on which the AIX queue manager (PASF33Q) is listening.

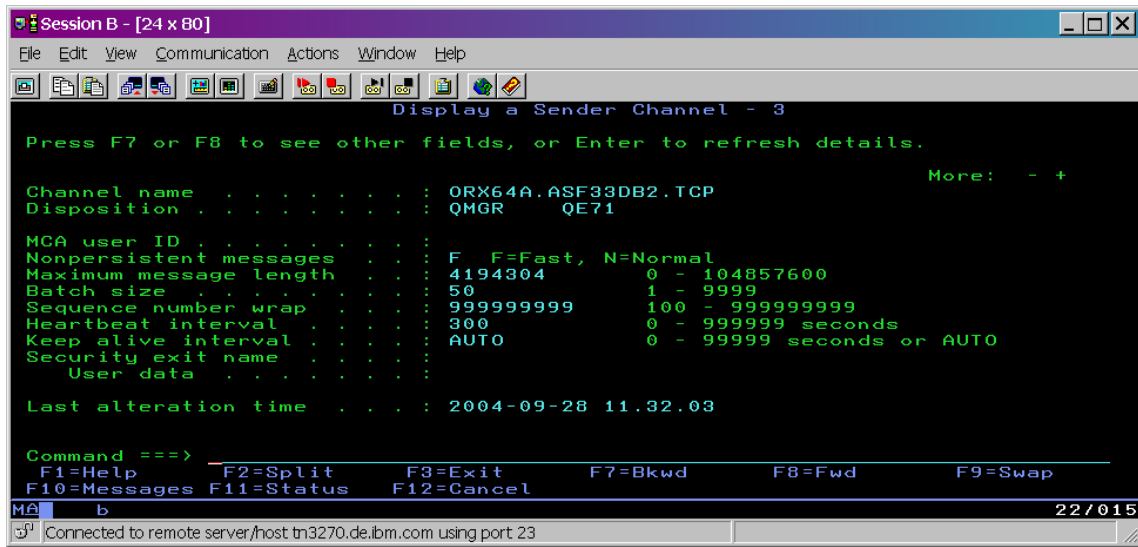
The transmission queue name is the same as described in “Define an Xmit Queue“.

Press **F8**.



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Sender Channel - 2
Press F7 or F8 to see other fields, or Enter to refresh details.
Channel name . . . . . : ORX64A.ASF33DB2.TCP
Disposition . . . . . : QMGR QE71
More: - +
Disconnect interval . . . . . : 0 0 - 999999 seconds
Batch interval . . . . . : 0 0 - 999999999 milliseconds
Batch heartbeat interval . . . . . : 0 0 - 999999 milliseconds
Short retry interval . . . . . : 60 0 - 999999999 seconds
Short retry count . . . . . : 10 0 - 999999999
Long retry interval . . . . . : 1200 0 - 999999999 seconds
Long retry count . . . . . : 999999999 0 - 999999999
Conversion by sender . . . . . : N Y=Yes, N=No
Command ==>
F1=Help      F2=Split    F3=Exit     F7=Bkwd     F8=Fwd      F9=Swap
F10=Messages F11=Status  F12=Cancel
MA b 22 / 015
Connected to remote server/host tn3270.de.ibm.com using port 23
```

Press **F8**.



Press **F3** to finish.

2.5 Define a Receiver Channel

```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Receiver Channel - 1
Press F8 to see further fields, or Enter to refresh details.
Channel name . . . . . : ASF33DB2. ORX64A. TCP           More: +
Disposition . . . . . : QMGR      QE71
Description . . . . . : Channel for Receiving Messages f
                        or AIX
Put authority . . . . . : D  D=Default, C=Context, O=OnlyMCA, A=AltMCA
Command ==>
F1=Help      F2=Split    F3=Exit      F7=Bkwd      F8=Fwd      F9=Swap
F10=Messages F11=Status  F12=Cancel
MA b 06 / 032
Connected to remote server/host tn3270.de.ibm.com using port 23
```

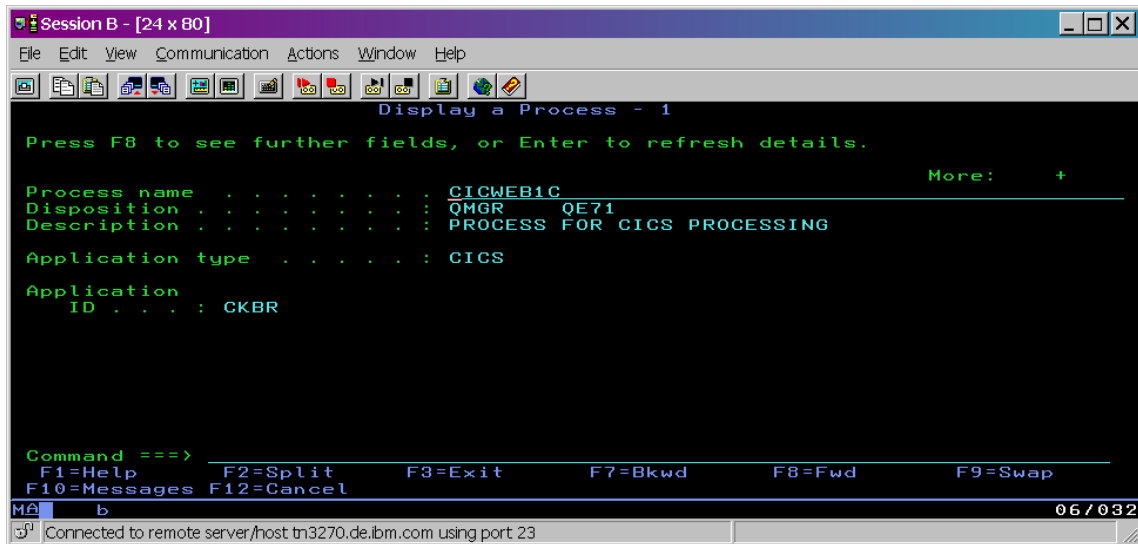
The receiver channel name must match the name of the sender channel in AIX.

Press **F8**.

```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Receiver Channel - 2
Press F7 or F8 to see other fields, or Enter to refresh details.
Channel name . . . . . : ASF33DB2. ORX64A. TCP           More: - +
Disposition . . . . . : QMGR      QE71
MCA user ID . . . . . :
Nonpersistent messages . . . : F  F=Fast, N=Normal
Maximum message length . . . : 4194304      0 - 104857600
Batch size . . . . . : 50      1 - 9999
Sequence number wrap . . . . : 999999999   100 - 999999999
Heartbeat interval . . . . . : 300      0 - 999999 seconds
Keep alive interval . . . . . : AUTO      0 - 99999 seconds or AUTO
Security exit name . . . . . :
User data . . . . . :
Last alteration time . . . . : 2004-09-28 11.33.11
Command ==>
F1=Help      F2=Split    F3=Exit      F7=Bkwd      F8=Fwd      F9=Swap
F10=Messages F11=Status  F12=Cancel
MA b 22 / 015
Connected to remote server/host tn3270.de.ibm.com using port 23
```

Press **F3** to finish.

2.6 Define a Process



A terminal window titled "Session B - [24 x 80]" with a menu bar (File, Edit, View, Communication, Actions, Window, Help) and a toolbar. The main display area shows the following text:

```
Display a Process - 1
Press F8 to see further fields, or Enter to refresh details.

Process name . . . . . : CICWEB1C           More: +
Disposition . . . . . : QMGR      QE71
Description . . . . . : PROCESS FOR CICS PROCESSING

Application type . . . . . : CICS

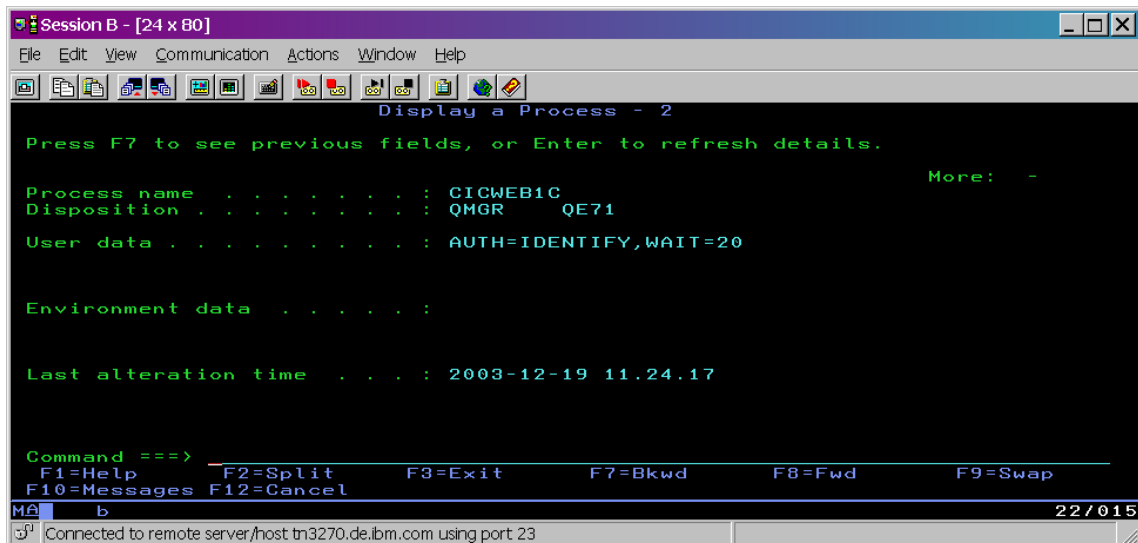
Application
  ID . . . . . : CKBR

Command ==>
F1=Help      F2=Split      F3=Exit      F7=Bkwd      F8=Fwd      F9=Swap
F10=Messages F12=Cancel

MA b
```

The status bar at the bottom shows "06 / 032" and "Connected to remote server/host tn3270.de.ibm.com using port 23".

Press **F8**.



A terminal window titled "Session B - [24 x 80]" with a menu bar (File, Edit, View, Communication, Actions, Window, Help) and a toolbar. The main display area shows the following text:

```
Display a Process - 2
Press F7 to see previous fields, or Enter to refresh details.

Process name . . . . . : CICWEB1C           More: -
Disposition . . . . . : QMGR      QE71
User data . . . . . : AUTH=IDENTIFY, WAIT=20

Environment data . . . . . :

Last alteration time . . . . . : 2003-12-19 11.24.17

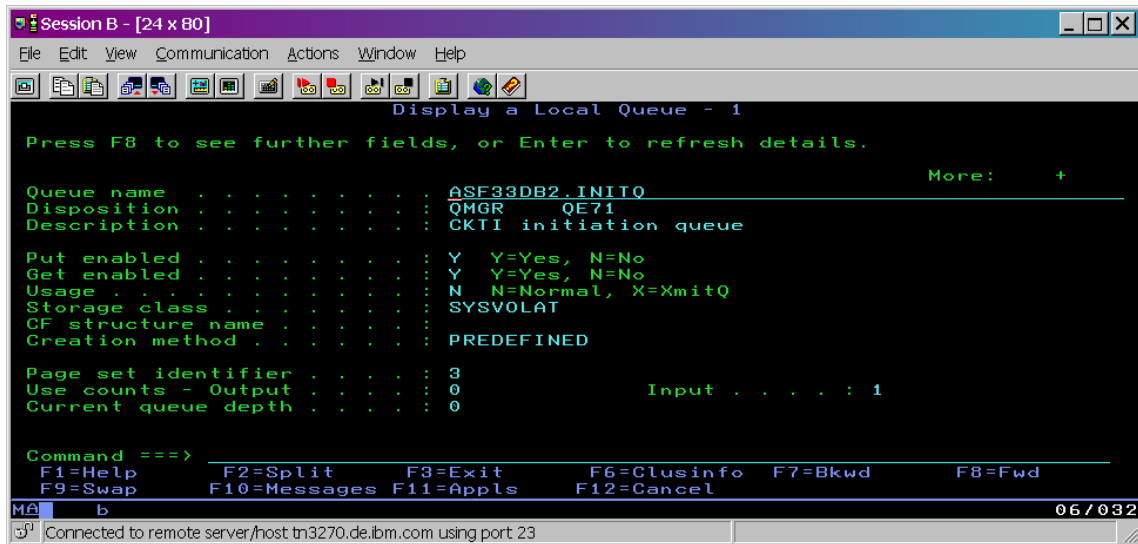
Command ==>
F1=Help      F2=Split      F3=Exit      F7=Bkwd      F8=Fwd      F9=Swap
F10=Messages F12=Cancel

MA b
```

The status bar at the bottom shows "22 / 015" and "Connected to remote server/host tn3270.de.ibm.com using port 23".

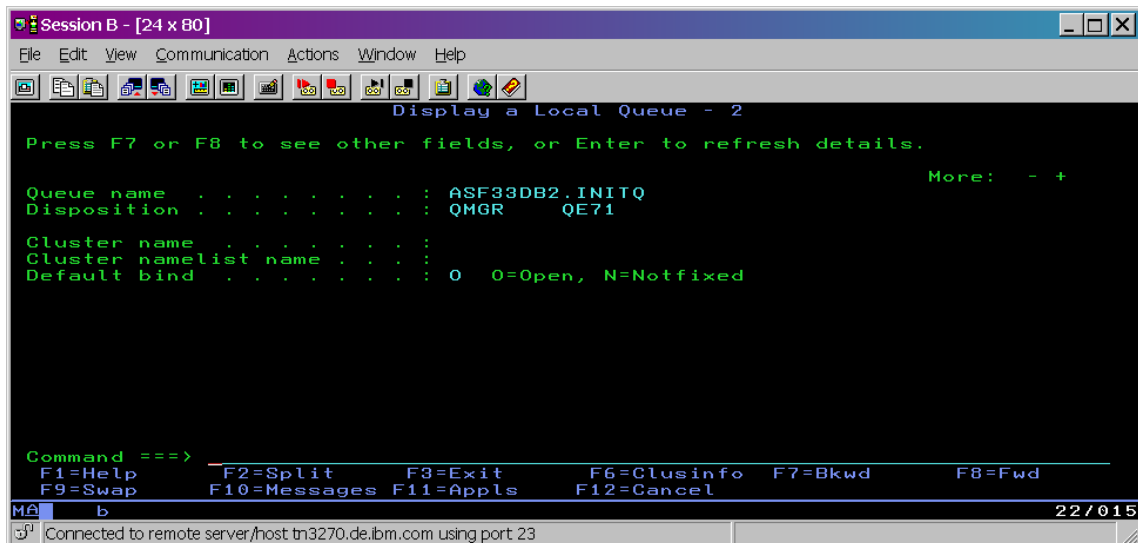
Press **F3** to finish.

2.7 Define an Initiation Queue



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 1
Press F8 to see further fields, or Enter to refresh details.
More: +
Queue name . . . . . : ASF33DB2.INITQ
Disposition . . . . . : QMGR QE71
Description . . . . . : CKTI initiation queue
Put enabled . . . . . : Y Y=Yes, N=No
Get enabled . . . . . : Y Y=Yes, N=No
Usage . . . . . : N N=Normal, X=XmitQ
Storage class . . . . . : SYSVOLAT
CF structure name . . . . . :
Creation method . . . . . : PREDEFINED
Page set identifier . . . . . : 3
Use counts - Output . . . . . : 0 Input . . . . . : 1
Current queue depth . . . . . : 0
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 06/032
Connected to remote server/host tn3270.de.ibm.com using port 23
```

Press **F8**.



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 2
Press F7 or F8 to see other fields, or Enter to refresh details.
More: - +
Queue name . . . . . : ASF33DB2.INITQ
Disposition . . . . . : QMGR QE71
Cluster name . . . . . :
Cluster namelist name . . . . . :
Default bind . . . . . : 0 0=Open, N=Notfixed
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23
```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 3
Press F7 or F8 to see other fields, or Enter to refresh details.
Queue name . . . . . : ASF33DB2.INITQ
Disposition . . . . . : QMGR QE71
Default persistence . . . . . : Y Y=Yes, N=No
Default priority . . . . . : 5 0 - 9
Message delivery sequence . . . . . : F P=Priority, F=FIFO
Permit shared access . . . . . : Y Y=Yes, N=No
Default share option . . . . . : E E=Exclusive, S=Shared
Index type . . . . . : N N=None, M=MsgId, C=CorrelId, G=GroupId,
T=MsgToken
Maximum queue depth . . . . . : 100 0 - 999999999
Maximum message length . . . . . : 4194304 0 - 104857600
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 4
Press F7 or F8 to see other fields, or Enter to refresh details.
Queue name . . . . . : ASF33DB2.INITQ
Disposition . . . . . : QMGR QE71
Trigger Definition
Trigger type . . . . . : N F=First, E=Every, D=Depth, N=None
Trigger set . . . . . : N Y=Yes, N=No
Trigger message priority : 0 0 - 9
Trigger depth . . . . . : 1 1 - 999999999
Initiation queue . . . . . :
Process name . . . . . :
Trigger data . . . . . :
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 5
Press F7 or F8 to see other fields, or Enter to refresh details.
Queue name . . . . . : ASF33DB2.INITQ
Disposition . . . . . : QMGR QE71
Event Control
Queue full . . . . . : E E=Enabled, D=Disabled
Upper queue depth . . . . . : D E=Enabled, D=Disabled
Threshold . . . . . : 80 0 - 100 %
Lower queue depth . . . . . : D E=Enabled, D=Disabled
Threshold . . . . . : 40 0 - 100 %
Service interval . . . . . : N H=High, O=OK, N=None
Interval . . . . . : 999999999 0 - 999999999 milliseconds
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

Press **F8**.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
Display a Local Queue - 6
Press F7 to see previous fields, or Enter to refresh details.
Queue name . . . . . : ASF33DB2.INITQ
Disposition . . . . . : QMGR QE71
Backout Reporting
Backout threshold . . . . . : 0 0 - 999999999
Harden backout counter . . . . . : N Y=Yes, N=No
Backout requeue name . . . . . :
Retention interval . . . . . : 999999999 0 - 999999999 hours
Creation time . . . . . : 2003-12-19 11.24.17
Last alteration time . . . . . : 2003-12-19 11.24.17
Command ==>
F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F8=Fwd
F9=Swap F10=Messages F11=Appls F12=Cancel
MA b 22/015
Connected to remote server/host tn3270.de.ibm.com using port 23

```

Press **F3** to finish.

3 CICS Definitions

3.1 The CICS Adapter (PLTPI program)

The CICS adapter must be installed and operational. For more information refer to „WebSphere MQ for z/OS System Setup Guide“ SC34-6052 and „WebSphere MQ for z/OS System Administration Guide“ SC34-6053. A CICS connection is started from a PLTPI program as follows:

```
PRINT GEN
*
DFHPLTP1 DFHPLT TYPE=INITIAL,SUFFIX=P1
  DFHPLT TYPE=ENTRY,PROGRAM=DFHDELIM
  DFHPLT TYPE=ENTRY,PROGRAM=CSQCCODF
  DFHPLT TYPE=FINAL
*
END
```

To activate the PLTPI program and the CICS Adapter the following SIT parameters are used:

```
INITPARM=(CSQCPARM='SN=QE71,TN=002,IQ=ASF33DB2.INITQ')
MQCONN=YES
PLTPI=P1
```

With transaction CKQC the CICS Adapter Control program is invoked.

3.2 The CICS Bridge (Transaction CKBR)

The CICS Bridge must be installed and operational. For more information refer to „WebSphere MQ for z/OS System Setup Guide“ SC34-6052 and „WebSphere MQ for z/OS System Administration Guide“ SC34-6053.

3.3 MQ and CICS Bridge

The CICS Bridge is started automatically during the first request via the CICS request queue (for example QUERY.ORX64A.ASF33DB2).

The request queue must have the following trigger definition:

Trigger Type	= F	(first)
Initiation Queue	= ASF33DB2.INITQ	(CICS startup: INITPARM=(CSQCPARM='SN =QE71,TN=002,IQ=ASF33DB 2.INITQ')
Process name	= CICWEB1C	

The process CICWEB1C must have the following parameters:

Application ID	= CKBR
User data	= AUTH=IDENTIFY,WAIT=20

Note: CKBR can be started from a CICS terminal by entering the command

CKBR Q=QUERY.ORX64A.ASF33DB2,AUTH=IDENTIFY,WAIT=20

The terminal will be locked.

4 WebSphere Application Server V5.1 Settings

Refer to document “Installation on AIX Server using WebSphere Application Server V5.1, Server-to-Host connection using WebSphere MQ “.

5 Security Considerations

User Id and password as specified using the DocNetworkConfigServlet are passed to the CICS Bridge (user Id within the MQMD section and password within the CIH CICS Information Header). Depending on the CICS Bridge settings RACF is called to verify the user Id/password (AUTH keyword for transaction CKBR).

6 Problem Determination

For problem determination a server and a host trace have to be provided. Under CICS transaction CEDX can be used to debug problems:

1. Server trace on AIX (can be enabled in DocConfiguration.xml)
2. Host trace
3. CEDX CKBP (CICS Bridge Transaction)