Sample Router Configurations

Table A-1 summarizes the correspondence between key VTAM and DB2 parameters on DB2/MVS and the Cisco Transaction Connection router configuration parameters.

Table A-1   Correspondence Between VTAM and DB2 Parameters

Subsystem	MVS/OS390 Parameter	CTRC Router Parameter
VTAM-DB2 APPL	APPL statement label in VTAM-DB2 APPL	dbconn server rlu
VTAM-CICS-APPL	APPL statement label in VTAM-CICS APPL	txconn dest rlu
VTAM-MODE ENTRY	LOGMODE	dbconn server mode txconn dest mode
VTAM - PU/LU	CPNAME	snasw cpname
VTAM - XCA	CUADDR	Csna
	ADAPTNO	Adapter
DB2-DDF	LOCATION	dbconn server rdbname
	LU	dbconn server rlu
	PORT	dbconn server port

VTAM and DB2 Parameter Mappings

The following sections give more detail about how to locate some of these values in DB2/VTAM. For more information about preparing VTAM, see the "preparing the Host for DB2" chapter.

APPL Statement Label

The APPL statement label is the word immediately preceding the APPL parameter in the DB2 APPL statement. The CTRC configuration examples use DSNV510 for the APPL statement label (see the "APPL Statement" section on page 2-4).

LOGMODE

The LOGMODE is a parameter in the logmode table entry. See the LOGMODE parameter for information and examples of logmode table entries showing the LOGMODE = <LOGMODE> parameter.

CPNAME

The CPNAME is a parameter in the major node definition. See the CPNAME parameter.

LOCATION

The LOCATION is the database name. It is part of the DDF record. See the "DDF Record in BSDS" section on page 2-4 for an example of a DDF record showing the LOCATION name.

CUADDR and ADAPTNO

The VTAM XCA definition defines values for the physical and virtual configuration for a Channel Interface Processor (CIP) card on the router (see the "XCA for a CIP-Attached Router" section on page A-5).

Example VTAM Parameter Listings

DB2 APPL

```
DSNAPPL    VBUILD    TYPE=APPL
DSNV510    APPL      AUTH=(ACQ),
                     APPC=YES,
                     AUTOSES=1,
                     DMINWNL=2048,
                     DMINWNR=2048,
                     DSESLIM=4096,
                     EAS=65535,
                     MODETAB=ISTINCLM,
                     DLOGMOD=IBMRDB,
                     SECACPT=ALREADYV,
                     SRBEXIT=YES,
                     VERIFY=NONE,
                     VPACING=1,
                     SYNCLVL=SYNCPT,
                     ATNLOSS=ALL
```

CICS APPL

```
A02CICS    VBUILD    TYPE=APPL
CICSB      APPL      AUTH=(ACQ,SPO,PASS,VPACE),
                     MODETAB=ISTINCLM,
                     DLOGMOD=IBMRDB,
                     HAVAIL=YES,
                     VPACING=9,
                     EAS=10000,
                     PARSESS=YES,
                     APPC=NO,
                     SONSCIP=YES
```

MODE ENTRY

```
IBMRDB    MODEENT   LOGMODE=IBMRDB
                    FMPROF=X'13',
                    TSPROF=X'07',
                    PRIPROT=X'B0',
                    SECPROT=X'B0',
                    COMPROT=X'50B1',
                    RUSIZES=X'8989',
                    PSNDPAC=X'03',
                    SRVCPAC=X'03',
                    PSERVIC=X'0602000000000000000002F00'
```

Switched Major Node for Router

```
S02CTRC    VBUILD     TYPE=SWNET
* CTRC  DOWNSTREAM  PU
CTRCPU    PU        ADDR=01,
                    CPNAME=CTRCBOX,
                    ANS=CONT,
                    DISCNT=NO,
                    IRETRY=NO,
                    ISTATUS=ACTIVE,
                    PUTYPE=2,
                    SECNET=NO,
                    MAXDATA=521,
                    MAXOUT=2,
                    MAXPATH=1,
                    USSTAB=USSS,
                    MODETAB=ISTINCLM,
                    DLOGMOD=IBMRDB,
                    CONNTYPE=APPN
*
CTRCCIP  PATH  GRPNM=G02E20A,CALL=IN
*
CTRCBOX   LU         LOCADDR=00,       INDEPENDENT LU
                    DLOGMOD=IBMRDB,
```

Sample VTAM Configuration for CICS

The VTAM XCA definition supplies the values for the physical and virtual configurations for a CIP card on the router.

XCA for a CIP-Attached Router

```
XCAE20   VBUILD  TYPE=XCA
XPE20R   PORT    CUADDR=E20,
                 ADAPNO=1,
                 SAPADDR=4,
                 MEDIUM=RING,
                 DELAY=0,
                 TIMER=60
G02E20A  GROUP ANSWER=ON,CALL=INOUT,DIAL=YES,ISTATUS=ACTIVE
*
K02T201S  LINE
P02T201S    PU
*
K02T202S  LINE
P02T202S    PU
*
```

XCA for Token Ring Attached Router

```
XCAE40   VBUILD  TYPE=XCA
XPE40R   PORT    CUADDR=E40,
                 ADAPNO=1,
                 SAPADDR=4,
                 MEDIUM=RING,
                 DELAY=0,
                 TIMER=30
G02E40A  GROUP DIAL=YES,CALL=INOUT,ANSWER=ON,ISTATUS=ACTIVE
*
K02T001S  LINE
P02T001S    PU
*
K02T002S  LINE
P02T002S    PU
*
```

Sample Router Configurations for CICS and DB2

```
version 12.0
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!
hostname CTRCBOX
!
ip domain-name starquest.com
cns event-service server
!
source-bridge ring-group 100
!
interface FastEthernet0/0
 no ip address
 no ip directed-broadcast
 no ip route-cache
 no ip mroute-cache
 shutdown
 media-type MII
 half-duplex
!
!
interface TokenRing4/1
 mac-address 4000.1111.0505
 no ip address
 no ip directed-broadcast
 no ip directed-broadcast
 no ip route-cache
 no ip mroute-cache
 early-token-release
 ring-speed 16
 llc2 ack-max 2
!
interface Ethernet6/1
 mac-address 4200.0000.0505
 ip address 198.147.235.2
 no ip directed-broadcast
 no ip route-cache
 no ip mroute-cache
!
interface Channel3/0
 ip address 192.168.1.1 255.255.255.0
 no ip directed-broadcast
```

```
 no keepalive
 channel-protocol S4
csna 0100 20
!
interface Channel3/2
 no ip address
 no ip directed-broadcast
 no keepalive
 lan TokenRing 1
  source-bridge 10 2 100
  adapter 1 4000.0123.9999
!
interface Virtual-TokenRing0
  mac-address 4000.2222.3333
  source-bridge 50 1 100
  source-bridge spanning
!
snasw cpname CTRCBOX
snasw port TOK1 TokenRing4/1
snasw port SRB Virtual-TokenRing0
snasw link BUDDCIP port SRB rmac 4000.0123.9999
snasw link BUDDY port TOK1 rmac 4000.0200.0448
snasw location DSNV510 owning-cp STARW.BUDDCP (see Note below)
!
dbconn license SM6FB088F100CL020BFFD45EA2FF24DB connections 500
expiration-date
000000
!
txconn destination CICSC rlu CICSC mode IBMRDB
txconn destination CICSB rlu CICSB mode IBMRDB
!
txconn server CICSB destination CICSB port 1435
!
dbconn server DB2BUDD port 446 rdbname DB2510 rlu STARW.DSNV510 mode
IBMRDB
dbconn tcpserver GAZTCP port 452 rdbname GAZELLE remote-ip-address
198.147.235.39 remote-port 446
dbconn pem DB2BUDD rlu MVSLU01 mode #INTER
```

Note   The SNAsw location is used only for LEN connections. Do not use
this statement if the host is running APPN.

To determine if you need the SNASw location statement and the owning CP name
perform the following steps.

Step 1   Configure the SNASw CPNAME, PORT, and LINK statements.

Step 2   Start the SNASw link:

```
snasw start link BUDDY
```

Step 3   Examine the status of the link:

```
show snasw link
```

If the Node Type is LEN Node, the SNASw location statement is necessary. The owning CP Name appears under the Adjacent CP Name column.