

Using the IMS TSO SPOC to Manage Your IMS Environment

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SHARE in Boston

Agenda

- Common Service Layer Overview
 - Operations Manager
 - Resource Manager
 - Structured Call Interface
- IMS TSO SPOC Overview
 - Function and Use
 - TSO SPOC Audit Trail
- IMS TSO SPOC Demo
 - Configuration/Settings
 - Type-2 Commands

Common Service Layer Overview

Common Service Layer (CSL) Overview

- An architecture to improve the systems management capabilities for IMS systems
 - Operations management (Operations Manager)
 - Communication ability between IMSplex components (Structured Call Interface)
 - Resource management (Resource Manager)
- Benefits
 - Provides a single system image (IMSplex)
 - Ease of use through a single point of control
 - Shared resources across all IMS systems
- Reduces complexity of managing multiple IMS systems

CSL Components

- Based on BPE (Base Primitive Environment)
- Each has an address space:
 - Operations Manager (OM)
 - Resource Manager (RM)
 - Structured Call Interface (SCI)

Operations Manager (OM) Overview

- Provides 'single point of control' for command entry into an IMSplex
 - Focal point for operations management and automation
- Provides the following services
 - Route commands to IMSplex members registered for the command
 - Consolidate command responses from individual IMSplex members into a single response to present to the command originator
 - Support for new IMSplex commands (type-2 commands) and for existing IMS commands (type-1 commands)

Operations Manager (OM) Overview

- Provides the following services (cont'd)
 - An API for IMS commands automation
 - Command security for authorization using RACF or equivalent plus user exit
 - User exit capability for editing command input and responses
- Configuration
 - One or more OM address spaces required per IMSplex

Resource Manager (RM) Overview

- Provides infrastructure for managing global resources and IMSplex-wide processes
- Provides the following services
 - IMS is responsible for exploiting RM services
 - Maintains global resource information using a resource structure in a Coupling Facility
 - Coordinates IMSplex-wide processes

Resource Manager (RM) Overview

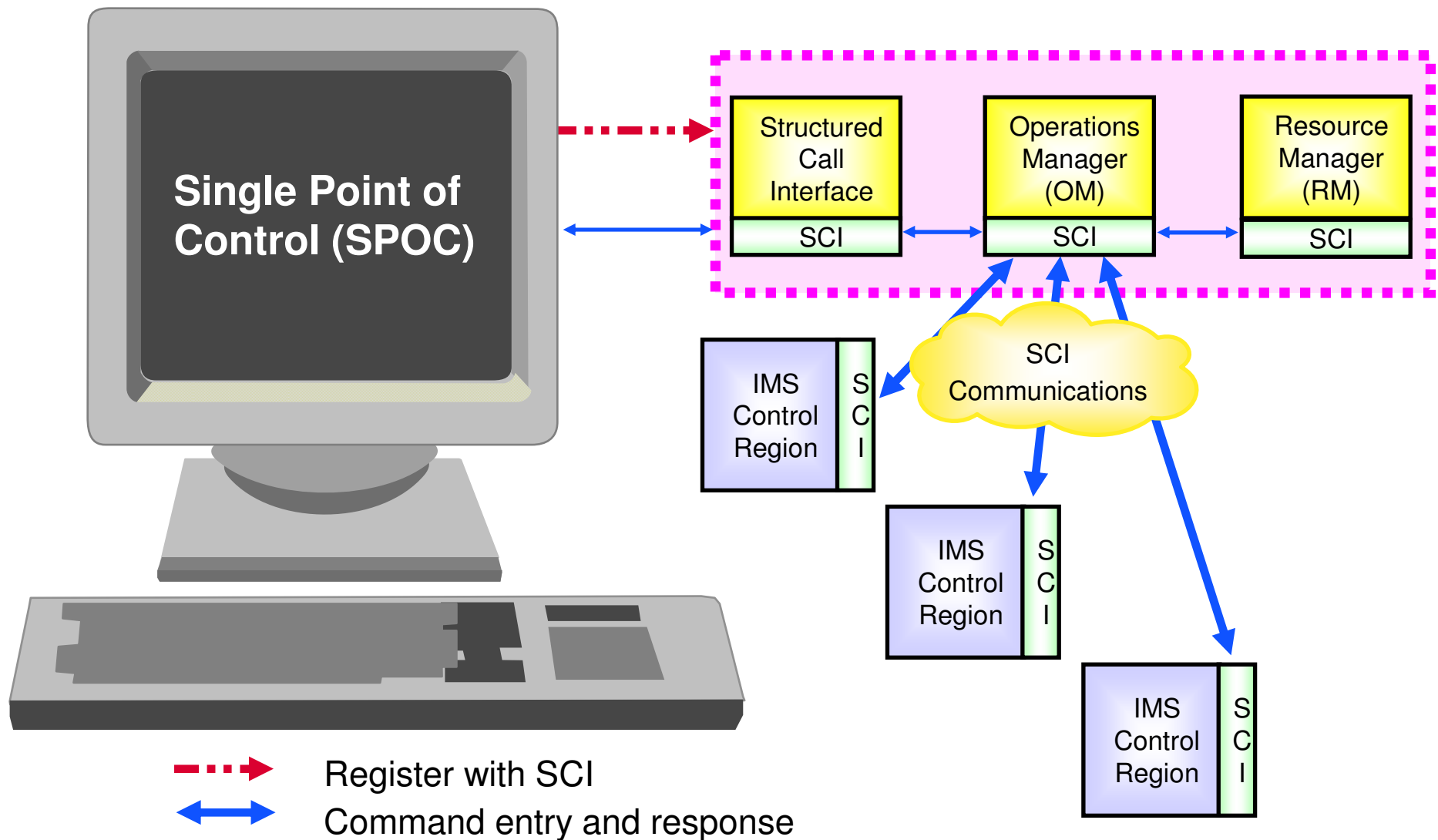
- Used for the following functions
 - Sysplex Terminal Management (STM) (IMS 8)
 - Global Online Change (GOLC) (IMS 8)
 - Global Callable Services (IMS 8)
 - Global Status (IMS 10)
 - Sysplex Serial Program Management (SSPM) (IMS 10)
 - ACBLIB Member Online Change (IMS 10)
 - Database Quiesce (IMS 11)

Structured Call Interface (SCI) Overview

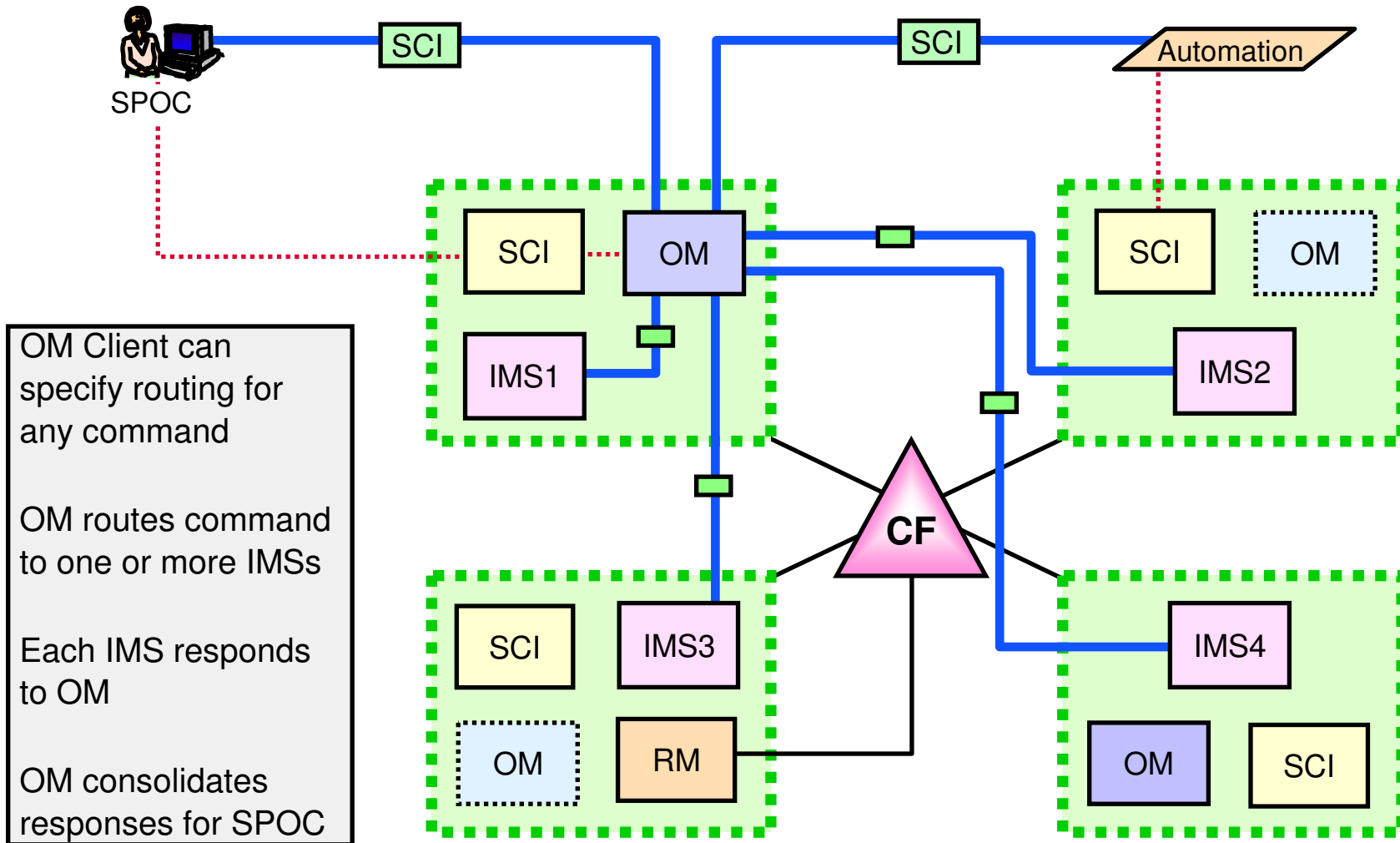


- Provides communications services among IMSplex members in a single z/OS image and across multiple z/OS images in an IMSplex
- Provides the following services
 - Member registration services (security)
 - OM, RM, IMS, **SPOC**, IMS Connect, DBRC, CQS
 - Communications services between members using z/OS XCF
- Used for the following functions
 - Automatic RECON Loss Notification (ARLN) (IMS 9)
 - Parallel RECON Access (PRA) (IMS 10)
 - Database Quiesce (IMS 11)
- One SCI address space is required on each z/OS image where CSL is active

CSL Architecture (Address Spaces)



OM in a Multi-IMS IMSplex



Note: OM does not require a Parallel Sysplex if there is just one z/OS image.

IMS TSO SPOC Overview

IMS Single Point of Control (SPOC)

- A SPOC is a program that interfaces between a user and the OM
- From this single point, user can enter commands to any or all IMSs
 - It can run on the mainframe
 - TSO SPOC is provided in IMS
 - Batch SPOC is provided in IMS (IMS 10)
 - REXX SPOC APIs are provided in IMS
 - It can run on the workstation
 - IMS Control Center

IMS Single Point of Control (SPOC)

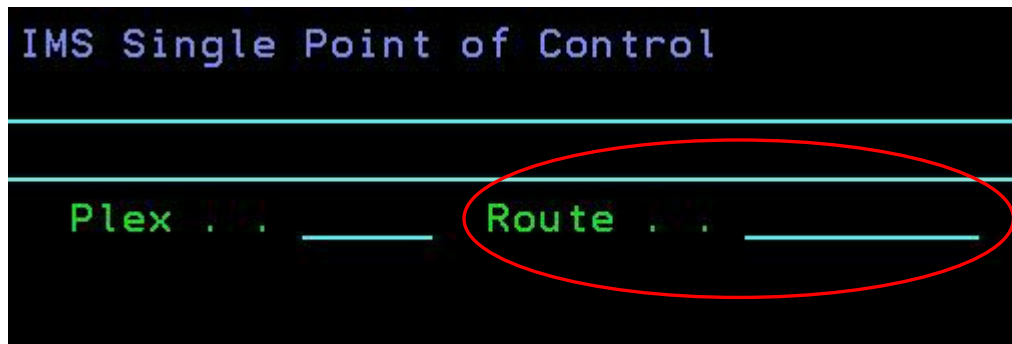
- Functions provided
 - Single-system view of an IMSplex using a single console
 - Consolidated display of command responses from multiple IMS systems
 - Message sending to IMS terminals connected to any IMS in the IMSplex
- There can be multiple SPOCs in an IMSplex

TSO SPOC

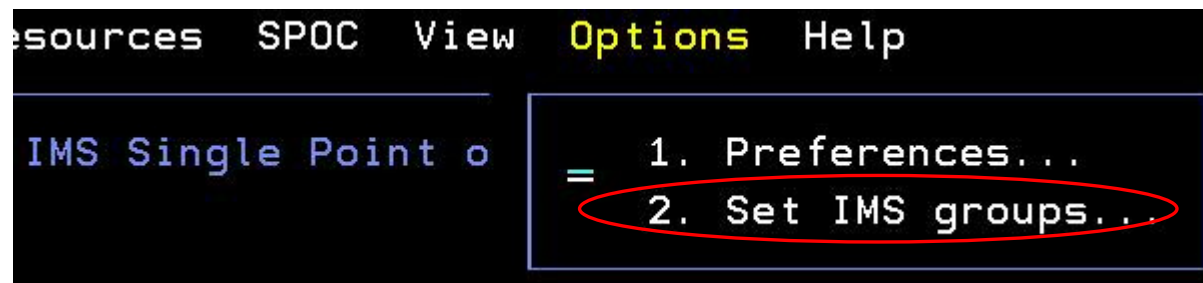
- Runs under z/OS as a TSO/ISPF application (DFSSPOC)
- May or may not be on the same z/OS as OM
 - Must be on a z/OS with an SCI
- Provides a 'green screen' terminal interface from which IMS commands (type-2 or type-1) may be entered by an operator to one or more members of an IMSplex (including DB/DC, DBCTL, DCCTL)
- Formats command responses for display
 - OM response encapsulated in XML
- OM provides security checking
 - TSO user ID is used to determine RACF authorization

Defining groups of IMSs in the TSO SPOC

- Route field only holds space for 2 IMS names

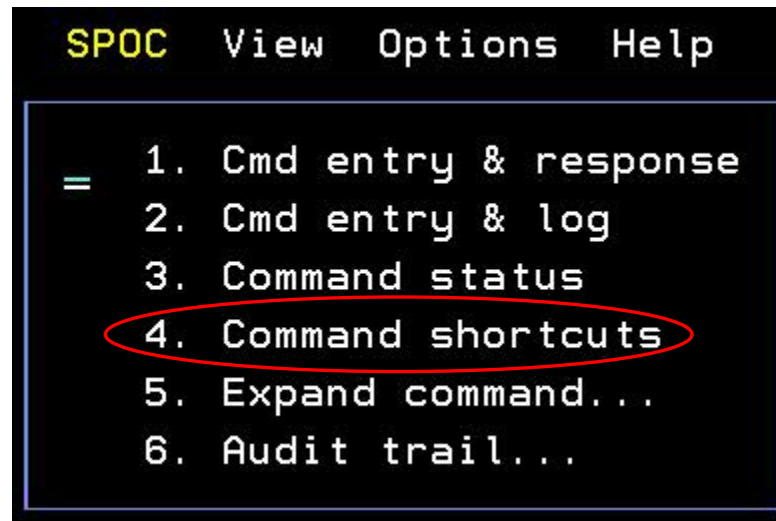


- Define a named group of IMS systems using SPOC Group Definitions panel and route commands to group instead



Using command shortcuts in the TSO SPOC

- Using the SPOC command shortcuts panel, you can set up shortened versions of commands or nicknames for commands



Displaying command status in the TSO SPOC

- When a command is issued, it is saved in the TSO SPOC
- Use the command status panel to work with previously entered commands:
 - Display commands/responses
 - Delete commands
 - Edit commands
 - Reissue commands

Reissuing Commands in the TSO SPOC

- After command entry, position the cursor on the entered command, press Enter and the command will be moved to the command line, where you can edit the command or press Enter to issue the command again
- Use the ISPF retrieve key to display commands that were previously entered (includes TSO SPOC commands plus others entered during TSO session)
- Use the ISPF RETP command to list previously entered commands, select a number and press Enter

Issuing Commands in the TSO SPOC

- Use the TSO SPOC command status panel
- Use the TSO SPOC shortcuts panel
- Use the TSO SPOC expand command panel which gives an ISPF edit panel to edit a long command

TSO SPOC Operations Manager Audit Trail

- Keeps track of IMSplex activity, including:
 - IMS command input from OM clients (TSO SPOC, IMS Control Center)
 - Responses to commands
 - Unsolicited messages

TSO SPOC Operations Manager Audit Trail



File Action Manage resources SPOC View Options Help				
PLEX1		IMSpdex Audit Trail		
Command ==> _____				
		Members . . _____		
<div>User IDs shown with commands entered</div>				
MbrName	Time	Message		
USRT004	2008.149 09:43:47.14	Cmd input . : QRY DB NAME (B*) SHOW (ALL)		
USRT004	2008.149 09:43:47.14	Response for: <u>QRY DB NAME (B*) SHOW (ALL)</u>		
USRT004	2008.149 09:44:13.42	Cmd input . : UPD DB NAME (BANKTERM) SET (RESIDENT (Y		
USRT004	2008.149 09:44:13.42	Response for: <u>UPD DB NAME (BANKTERM) SET (RESIDENT (Y</u>		
USRT005	2008.149 09:44:54.83	Cmd input . : QRY MEMBER TYPE (IMS) SHOW (ATTRIB)		
USRT005	2008.149 09:44:54.83	Response for: <u>QRY MEMBER TYPE (IMS) SHOW (ATTRIB)</u>		
USRT005	2008.149 09:45:02.18	Cmd input . : QRY TRAN SHOW (ALL) STATUS (DYN, IOPREV		
USRT005	2008.149 09:45:02.18	Response for: <u>QRY TRAN SHOW (ALL) STATUS (DYN, IOPREV</u>		
USRT005	2008.149 09:45:25.23	Cmd input . : QRY DB SHOW (ALL) STATUS (ALLOCF, BACKO		
USRT005	2008.149 09:45:25.23	Response for: <u>QRY DB SHOW (ALL) STATUS (ALLOCF, BACKO</u>		
USRT001	2008.149 09:46:38.78	Cmd input . : QRY MEMBER TYPE (IMS) SHOW (ATTRIB)		
USRT001	2008.149 09:46:38.78	Response for: <u>QRY MEMBER TYPE (IMS) SHOW (ATTRIB)</u>		
USRT001	2008.149 09:46:42.76	Cmd input . : QRY PGM SHOW (ALL)		
USRT001	2008.149 09:46:42.76	Response for: <u>QRY PGM SHOW (ALL)</u>		
USRT001	2008.149 09:47:03.33	Cmd input . : UPD PGM NAME (APOL1) SET (DOPT (Y))		
F1=Help F3=Exit F5=Rfind F7=Up F8=Down F12=Cancel				

TSO SPOC Operations Manager Audit Trail



```

File Action Manage resources SPOC View Options Help
-----
PLEX1                                IMSpdex Audit Trail
Command ==> _____

Members . usr002 Type . . _____
More:      -+>

MbrName  Time      Message
USRT002  2008.148 10:47:26.43 Response for: DIS STATUS
USRT002  2008.148 11:08:37.49 Cmd input . : DIS DB ALL
USRT002  2008.148 11:08:37.49 Response for: DIS DB ALL
USRT002  2008.148 11:08:42.45 Cmd input . : DIS STATUS
USRT002  2008.148 11:08:42.45 Response for: DIS STATUS
USRT002  2008.148 11:39:12.95 Cmd input . : DIS DB ALL
USRT002  2008.148 11:39:12.95 Response for: DIS DB ALL
USRT002  2008.148 11:39:27.71 Cmd input . : DIS STATUS
USRT002  2008.148 11:39:27.71 Response for: DIS STATUS
USRT002  2008.148 12:52:48.28 Cmd input . : QRY TRAN NAME (A*)
USRT002  2008.148 12:52:48.28 Response for: QRY TRAN NAME (A*)
USRT002  2008.148 12:53:01.85 Cmd input . : QRY DB NAME (A*)
USRT002  2008.148 12:53:01.85 Response for: QRY DB NAME (A*)
USRT002  2008.148 12:53:13.26 Cmd input . : DIS DB ALL
USRT002  2008.148 12:53:13.26 Response for: DIS DB ALL

F1=Help  F3=Exit  F5=Rfind  F7=Up      F8=Down  F12=Cancel

```

User IDs shown with commands entered, filtered by User ID

*User IDs shown with
commands entered,
filtered by User ID*

IMS TSO SPOC Demo

Contact Information

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SPOC Demo

- IMSplex group definitions – routing to 3+ IMS systems
- Command shortcuts – abbreviated command versions
- Command status – display/reissue commands
- Resource management
 - Displaying transaction/database attributes and status (QUERY)
 - Queuing messages to transactions (QUEUE)
 - Updating database attributes (UPDATE)
 - Stopping/starting transactions (UPDATE)
 - Using MTO versus TSO SPOC

Reference Section

Equivalent Type-1 and Type-2 Commands

TSO SPOC Demo Screenshots

Equivalent Type-1 and Type-2 Commands

Equivalent type-1 and type-2 commands (1)

(IMS 11 Command Reference, Vol.1, table 15, p. 46)



Task	Type-1 command	Type-2 command
Change the value for the limit count of a transaction.	/ASSIGN LCT new_lmct_number TO TRAN tranname	UPDATE TRAN NAME (tranname) SET(LCT(new_limit_count))
Change the value for the limit priority of a transaction.	/ASSIGN LPRI new_lpri_number TO TRAN tranname	UPDATE TRAN NAME(tranname) SET(LPRI(new_limit_priority))
Change the value for the normal priority of a transaction.	/ASSIGN NPRI new_npri_number TO TRAN tranname	UPDATE TRAN NAME(tranname) SET(NPRI(new_normal_priority))
Change the value for the parallel processing limit count of a transaction.	/ASSIGN PARLIM new_parlim_number TO TRAN tranname	UPDATE TRAN NAME(tranname) SET(PARLIM(new_parallel_limit))
Change the value for the processing limit count of a transaction.	/ASSIGN PLCT new_plmct_number TO TRAN tranname	UPDATE TRAN NAME(tranname) SET(PLCT(new_processing_limit))
Change the limit on the number of application program output segments allowed in message queues for each GU call.	/ASSIGN SEGNO new_segno_number TO TRAN tranname	UPDATE TRAN NAME(tranname) SET(SEGNO(new_segment_number))

Equivalent type-1 and type-2 commands (2)

Task	Type-1 command	Type-2 command
Create or change the limit on the size of application program output segments allowed in message queues for each GU call.	/ASSIGN SEGSZ new_segsize_number TO TRAN tranname	UPDATE TRAN NAME(tranname) SET(SEGSZ(new_segment_size))
Change the class number of a transaction.	/ASSIGN TRAN tranname TO CLS new_class_number	UPDATE TRAN NAME(tranname) SET(CLASS(new_class_number))
Stop updates to a database.	/DBDUMP DB dbname	UPDATE DB NAME(dbname) STOP(UPDATES) OPTION(FEOV) ¹
Stop the accessing and updating of an area.	/DBRECOVERY AREA areaname	UPDATE AREA NAME(areaname) STOP(ACCESS)
Stop the accessing and updating of all areas and databases of the data group.	/DBRECOVERY DATAGRP datagrpname	UPDATE DATAGRP NAME(datagrpname) STOP(ACCESS)
Stop access to the database and take it offline.	/DBRECOVERY DB dbname	UPDATE DB NAME(dbname) STOP(ACCESS) OPTION(FEOV) ¹
Display information about an area.	/DISPLAY AREA	QUERY AREA
Display the status of a database.	/DISPLAY DB dbname1...dbnamen ALL	QUERY DB

Equivalent type-1 and type-2 commands (3)

Task	Type-1 command	Type-2 command
Display work in progress for runtime resource definitions that would cause a DELETE, /MODIFY COMMIT, INITIATE OLC PHASE(COMMIT), or UPDATE command to change resource definitions to fail.	/DISPLAY MODIFY ALL	QUERY DB NAME(dbname) SHOW(WORK), QUERY PGM NAME(pgmname) SHOW(WORK), QUERY RTC NAME(rtcode) SHOW(WORK), and QUERY TRAN NAME(tranname) SHOW(WORK).
Display information about a program.	/DISPLAY PGM pgmname	QRY PGM NAME(pgmname) SHOW(ALL) and QUERY PGM NAME(pgmname) SHOW(TRAN)
Display transactions, routing codes and databases associated with a PSB.	/DISPLAY PSB psbname	QUERY DB NAME(dbname) SHOW(PGM), QUERY PGM NAME(pgmname) SHOW(DB), QUERY PGM NAME(pgmname) SHOW(RTC) and QUERY PGM NAME(pgmname) SHOW(TRAN)
Display information about one or more Fast Path routing codes.	/DISPLAY RTC rtcname1...rtcnamen ALL	QUERY RTC NAME(rtcname1,...rtcnamen *) SHOW(ALL)

Equivalent type-1 and type-2 commands (4)

Task	Type-1 command	Type-2 command
Display information about databases with the specified status.	/DISPLAY STATUS DB	QUERY DB STATUS(ALLOCF, ALLOCS, BACKOUT, EEQE, LOCK, NOTINIT, NOTOPEN, OFR, OLR, OPEN, RECALL, RECOV, RNL, STOSCHD, STOUPDS)
Display all programs that have status and what that status is.	/DISPLAY STATUS PGM	QUERY PGM STATUS(DB-NOTAVL, IOPREV, LOCK, NOTINIT, STOSCHD, TRACE)
Display all Fast Path routing codes that have status and what that status is.	/DISPLAY STATUS RTC	QUERY RTC STATUS(ACTIVE, NOTINIT, NOTSCHD, STOQ)
Display information about transactions with the specified status.	/DISPLAY STATUS TRANSACTION	QUERY TRAN NAME(tranname) STATUS (IOPREV, LCK, QERR, SUSPEND, STOQ, STOSCHD, USTO)
Display information about a transaction.	/DISPLAY TRAN tranname	QUERY TRAN NAME(tranname) SHOW(ALL)
Display all of the transactions.	/DISPLAY TRAN ALL	QUERY TRAN SHOW(ALL)

Equivalent type-1 and type-2 commands (5)

Task	Type-1 command	Type-2 command
Display all of the transactions on the shared queues with a global queue count.	/DISPLAY TRAN tranname QCNT	QUERY TRAN NAME(tranname) SHOW(QCNT)
Stop the use of a database.	/LOCK DB dbname	UPDATE DB NAME(dbname) SET(LOCK(ON))
Lock a program.	/LOCK PGM pgmname	UPDATE PGM NAME(pgmname) SET(LOCK(ON))
Lock a transaction.	/LOCK TRAN tranname	UPDATE TRAN NAME(tranname) SET(LOCK(ON))
Change the transaction so that it is local and runs on the local system.	/MASSIGN TRAN tranname TO LOCAL	UPDATE TRAN NAME(tranname) SET(REMOTE(N))
Change the transaction so that it is remote, and assign it to a specific logical link path.	/MASSIGN TRAN tranname TO MSNAME msname	UPDATE TRAN NAME(tranname) SET(MSNAME(name))

Equivalent type-1 and type-2 commands (6)

Task	Type-1 command	Type-2 command
Stop the scheduling of transactions.	/PSTOP TRAN tranname	UPDATE TRAN(tranname) START(Q) STOP(SCHD)
Stop input messages for a particular transaction code.	/PURGE TRAN tranname	UPDATE TRAN NAME(tranname) START(SCHD) STOP(Q)
Start the area.	/START AREA areaname	UPDATE AREA NAME(areaname) START(ACCESS)
Start the data group.	/START DATAGRP datagrpname	UPDATE DATAGRP NAME(datagrpname) START(ACCESS)
Start a database and change access intent of the database.	/START DB ACCESS	UPDATE DB START(ACCESS) SET(ACCTYPE())
Start a database.	/START DB dbname	UPDATE DB NAME(dbname) START(ACCESS)
Start program scheduling.	/START PGM pgmname	UPDATE PGM NAME(pgmname) START(SCHD)
Start queueing to a Fast Path routing code.	/START RTC rtcname	UPDATE RTC NAME(rtcname) START(Q)

Equivalent type-1 and type-2 commands (7)

Task	Type-1 command	Type-2 command
Start a transaction.	/START TRAN	UPDATE TRAN NAME(tranname) START(Q,SCHD,SUSPEND)
Stop an area.	/STOP AREA areaname	UPDATE AREA NAME(areaname) STOP(SCHD)
Stop a data group.	/STOP DATAGRP datagrpname	UPDATE DATAGRP NAME(datagrpname) STOP(SCHD)
Stop a database.	/STOP DB dbname	UPDATE DB NAME(dbname) STOP(SCHD)
Stop program scheduling.	/STOP PGM pgmname	UPDATE PGM NAME(pgmname) STOP(SCHD)
Stop the queuing and scheduling of messages destined for a transaction.	/STOP TRAN tranname	UPDATE TRAN NAME(tranname) STOP(Q,SCHD)
Start the tracing of a program.	/TRACE SET ON PGM pgmname	UPDATE PGM NAME(pgmname) START(TRACE)
Stop the tracing of a program.	/TRACE SET OFF PGM pgmname	UPDATE PGM NAME(pgmname) STOP(TRACE)

Equivalent type-1 and type-2 commands (8)

Task	Type-1 command	Type-2 command
Stop queueing to a Fast Path routing code.	/STOP RTC rtcname	UPDATE RTC NAME(rtcname) STOP(Q)
Start the tracing of a transaction.	/TRACE SET ON TRAN tranname	UPDATE TRAN NAME(tranname) START(TRA)
Stop the tracing of a transaction.	/TRACE SET OFF TRAN tranname	UPDATE TRAN NAME(tranname) STOP(TRA)
Unlock a database.	/UNLOCK DB dbname	UPDATE DB NAME(dbname) SET(LOCK(OFF))
Unlock a program.	/UNLOCK PGM pgmname	UPDATE PGM NAME(pgmname) SET(LOCK(OFF))
Unlock a transaction.	/UNLOCK TRAN tranname	UPDATE TRAN NAME(tranname) SET(LOCK(OFF))

TSO SPOC Demo Screenshots

IMSpIex Group Definitions



File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point o

Command ==>

- 2_1. Preferences...
- 2. Set IMS groups...

Plex . .

Route . .

Wait . .

Response for:

CSLM000I (C) Copyright IBM Corp. 2000. All rights reserved.

F1=Help

F3=Exit

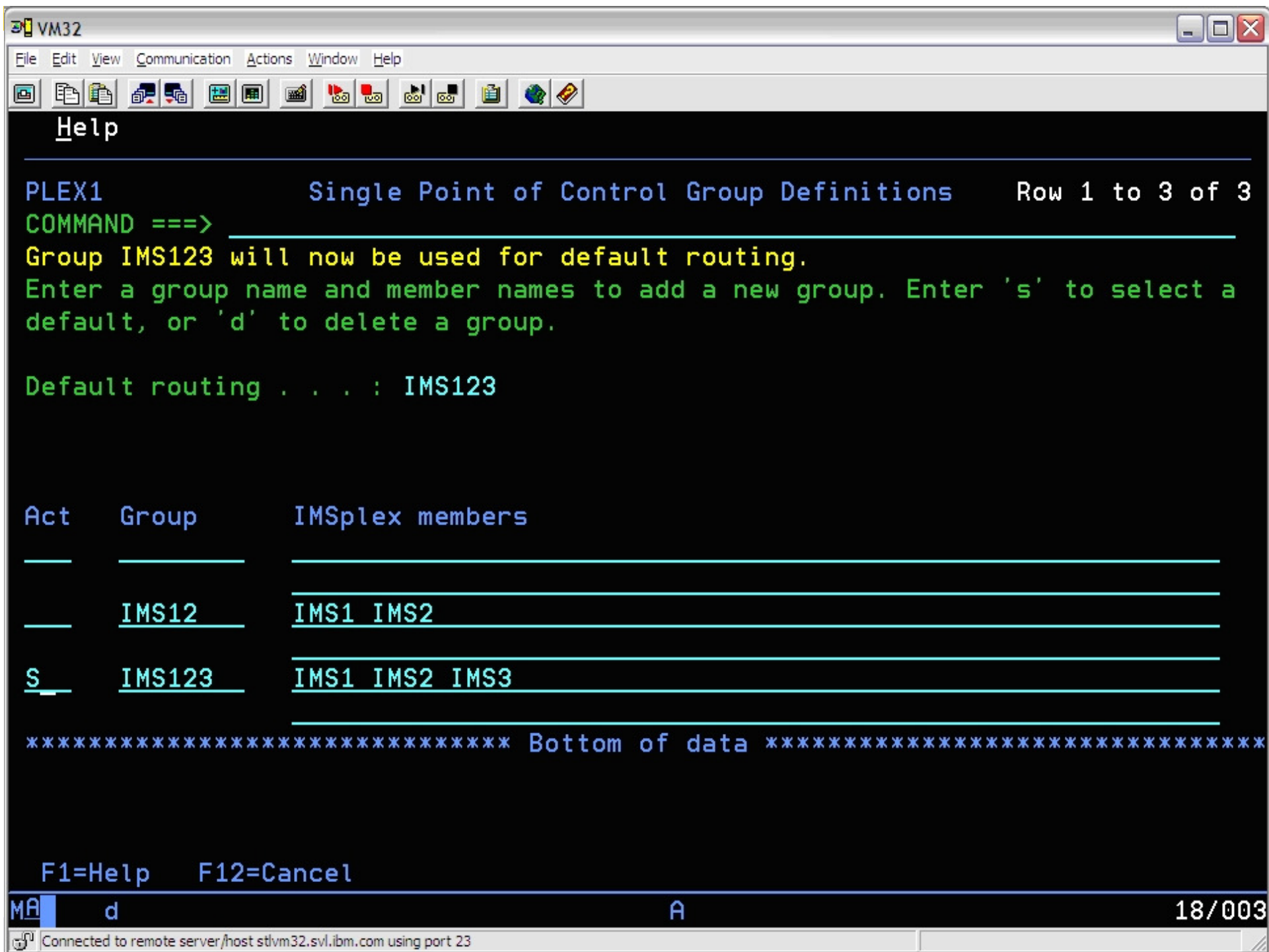
F4=Showlog

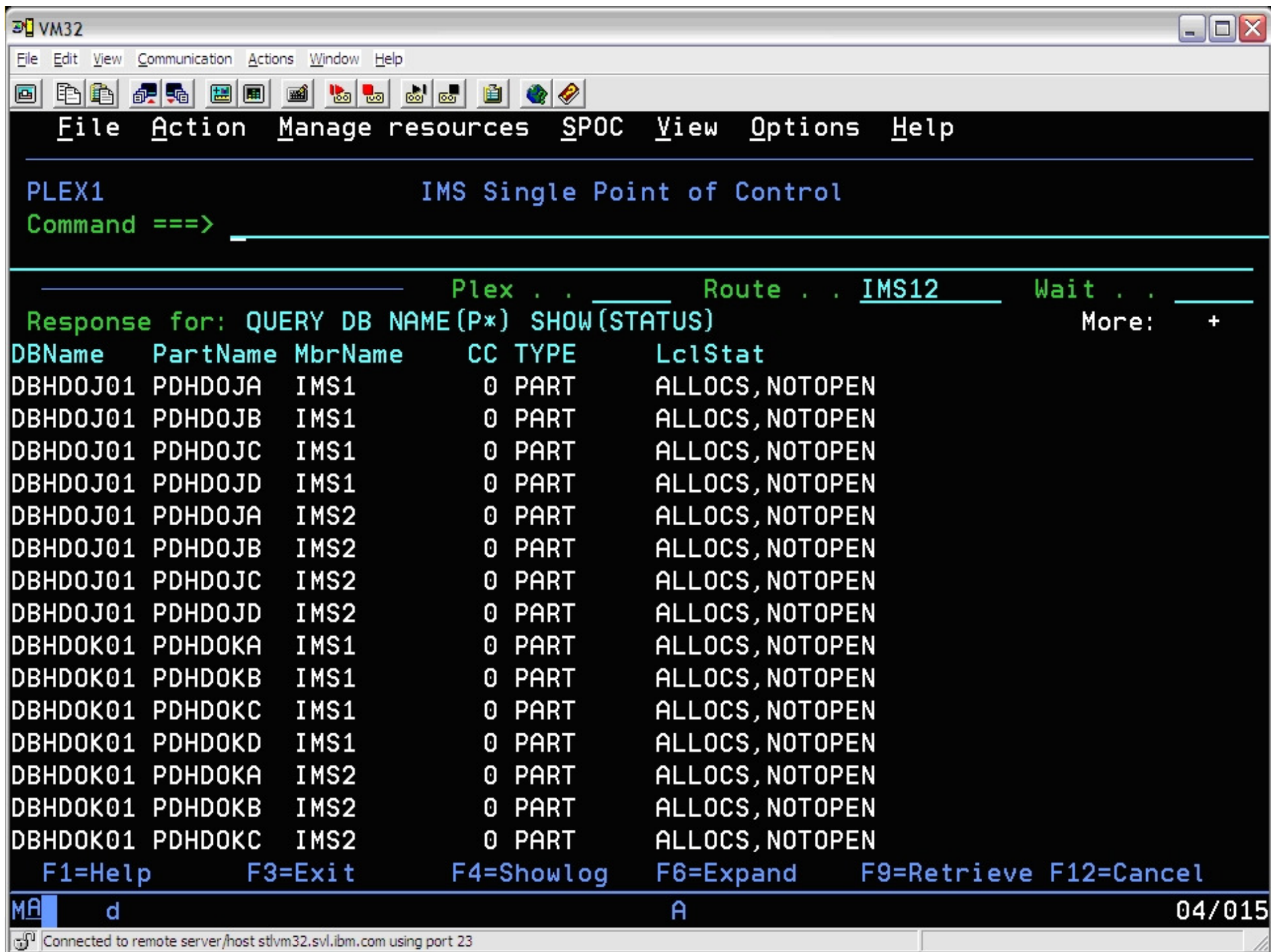
F6=Expand

F9=Retrieve F12=Cancel

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03/050





Command Shortcuts



File Action Manage resources SPOC View Options Help

PLEX1 IMS Si

Command ==>

Plex

Response for:

CSLM000I (C) Copyright IBM Corp

- 4 _ 1. Cmd entry & response
- 2. Cmd entry & log
- 3. Command status
- 4. Command shortcuts
- 5. Expand command...
- 6. Audit trail...

Wait . .

F1=Help

F3=Exit

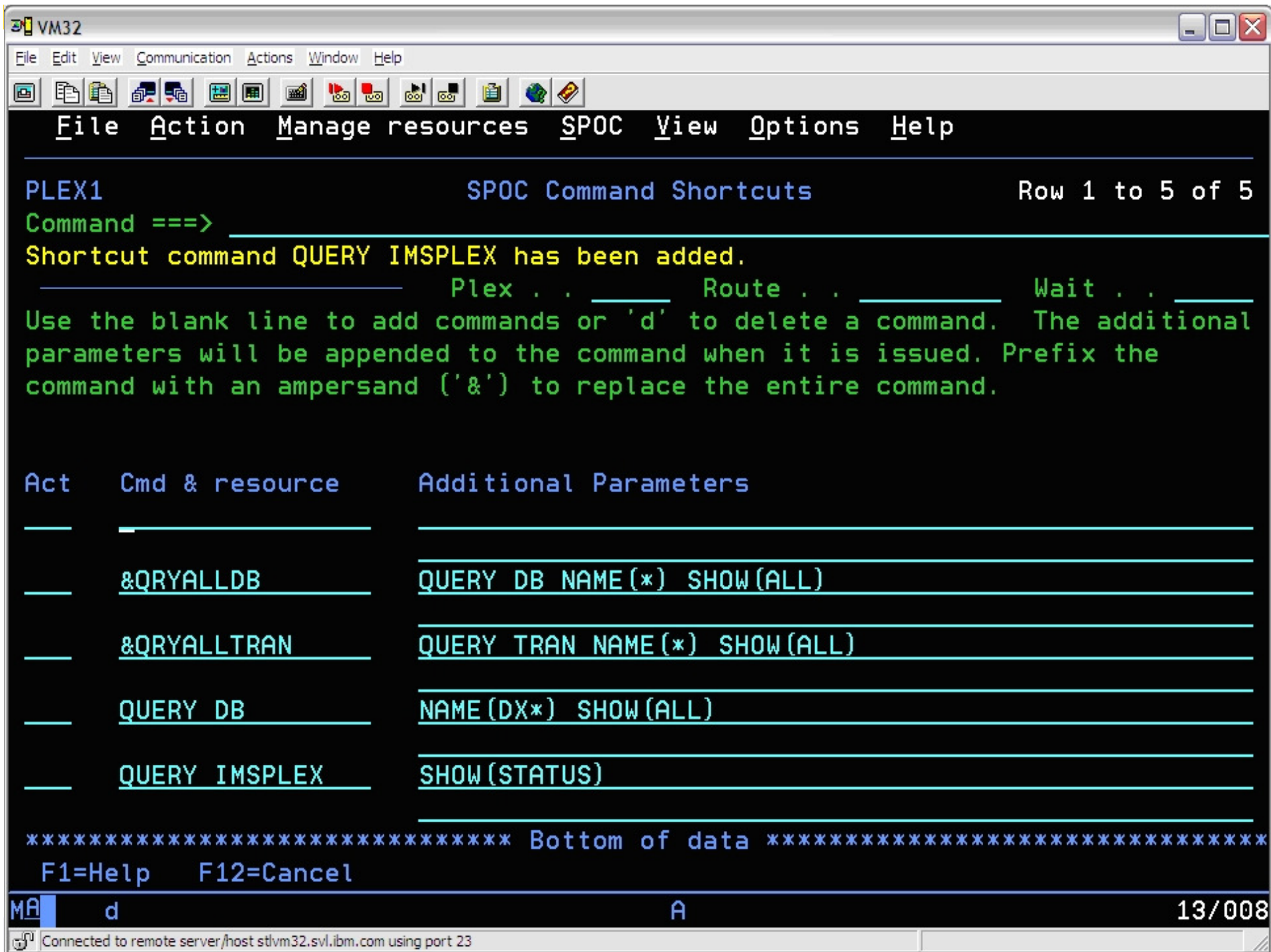
F4=Showlog

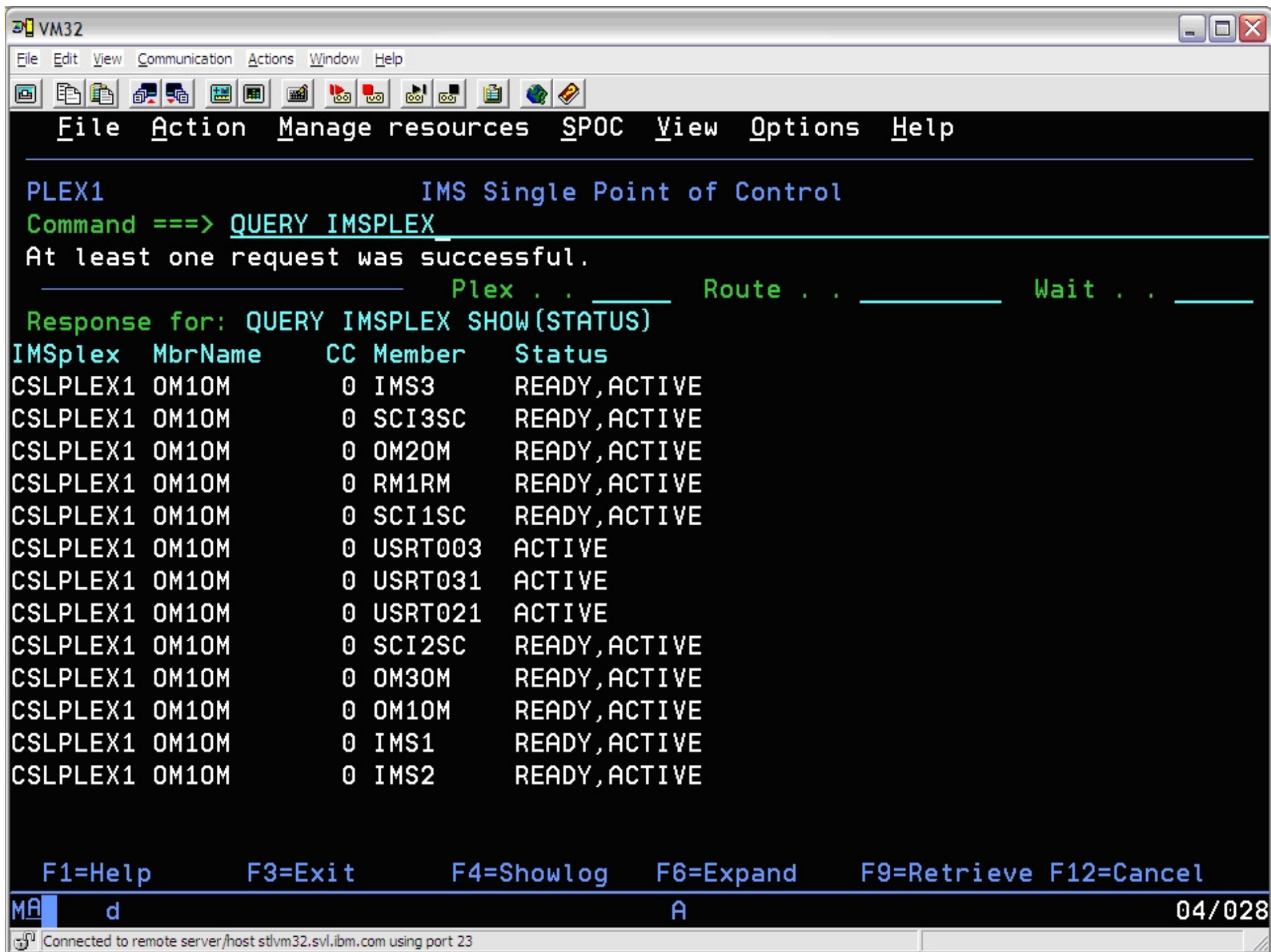
F6=Expand

F9=Retrieve F12=Cancel

MR d

03/038







PLEX1 IMS Single Point of Control

Command ==> &QRYALLDB

			Plex . .	Route . .		IMS12	Wait . .	
Response for: QUERY DB NAME(*) SHOW(ALL)							More:	+>
DBName	PartName	MbrName	CC	TYPE	LAcc	LRsdnt	LclStat	ModelName
DBHDOJ01		IMS1	0	PHDAM	UPD	N		DFSDSDB1
DBHDOJ01	PDHDOJA	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOJ01	PDHDOJB	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOJ01	PDHDOJC	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOJ01	PDHDOJD	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOJ01		IMS2	0	PHDAM	UPD	N		DFSDSDB1
DBHDOJ01	PDHDOJA	IMS2	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOJ01	PDHDOJB	IMS2	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOJ01	PDHDOJC	IMS2	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOJ01	PDHDOJD	IMS2	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOK01		IMS1	0	PHDAM	UPD	N		DFSDSDB1
DBHDOK01	PDHDOKA	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOK01	PDHDOKB	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOK01	PDHDOKC	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
DBHDOK01	PDHDOKD	IMS1	0	PART	UPD		ALLOCS,NOTOPEN	
F1=Help		F3=Exit	F4=Showlog		F6=Expand		F9=Retrieve F12=Cancel	

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04/024

Display/Reissue Commands



File Action Manage resources SPOC View Options Help

PLEX1 IMS Si

Command ==>

Plex

Response for:

CSLM000I (C) Copyright IBM Corp

- 3 _ 1. Cmd entry & response
- 2. Cmd entry & log
- 3. Command status
- 4. Command shortcuts
- 5. Expand command...
- 6. Audit trail...

Wait . .

F1=Help

F3=Exit

F4=Showlog

F6=Expand

F9=Retrieve F12=Cancel

MR d

03/038

VM32

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1IMS Single Point of ControlRow 1 to 13 of 75

Command ==>

Plex . . .Route . . .Wait . . .

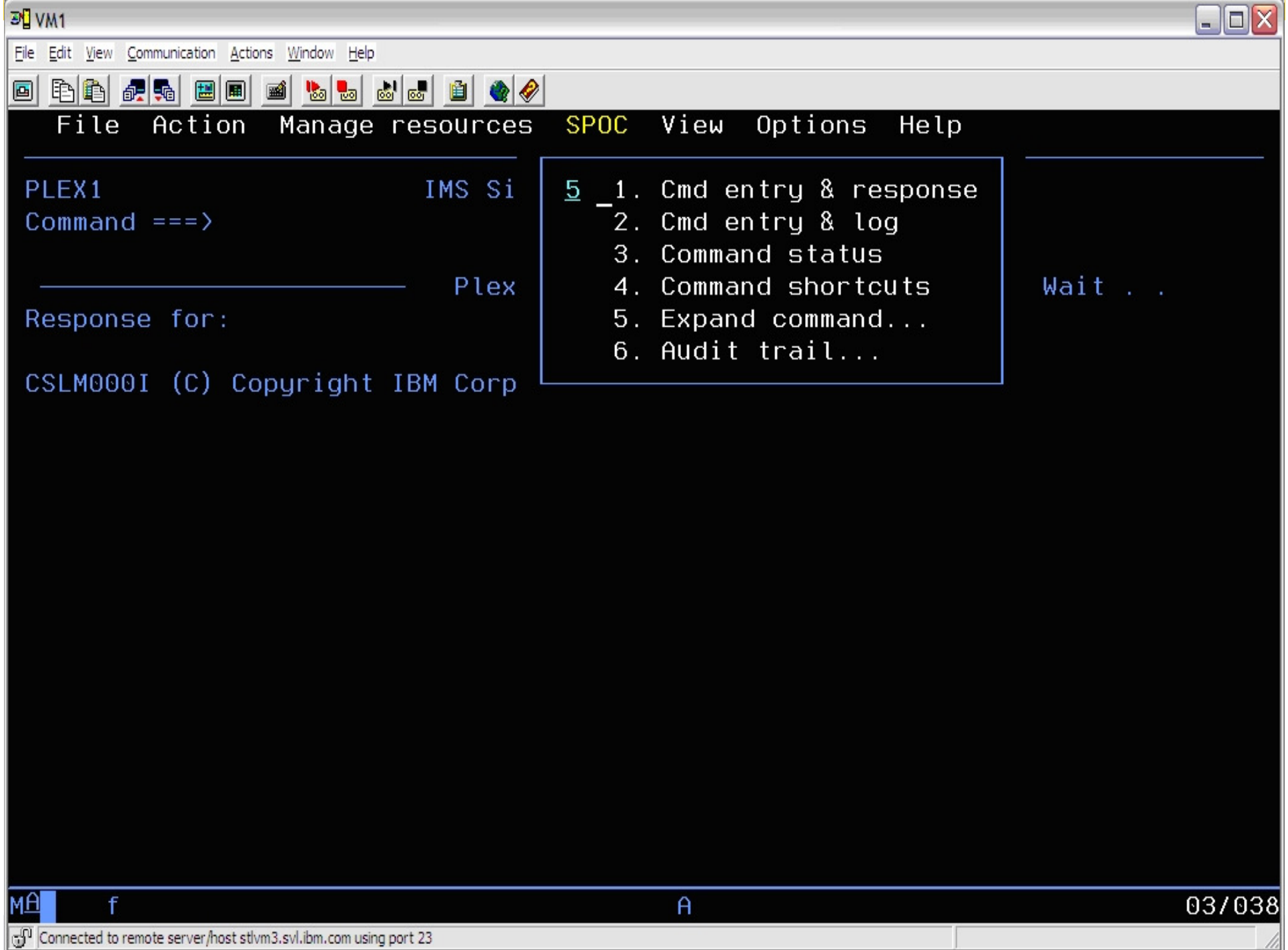
Enter '/' to view command response, 'i' to reissue a command, or 'd' to delete a command.

Act	Status	Command
_____	Complete	QUERY DB NAME(*) SHOW(ALL)
_____	Complete	QUERY DB NAME(*) SHOW(ALL)
<u>i</u> _____	Complete	QUERY IMSPLEX SHOW(STATUS)
_____	Complete	QUERY MEMBER TYPE(IMS) SHOW(ALL)
_____	Complete	QUERY MEMBER TYPE(IMS) SHOW(ALL)
_____	Complete	QUERY MEMBER
_____	Complete	QUERY DB NAME(P*) SHOW(STATUS)
_____	Complete	QUERY DB NAME(D*) SHOW(STATUS)
_____	Complete	QUERY DB NAME(*) TYPE(DLI)
_____	Complete	QUERY DB(*) TYPE(DLI)
_____	Complete	QUERY DB NAME(P*) SHOW(STATUS)
_____	Complete	QUERY DB NAME(P*) SHOW(STATUS)
_____	Complete	QUERY DB NAME(B*) SHOW(STATUS)

F1=Help F12=Cancel

MA d13/004

Connected to remote server/host stvm32.svl.ibm.com using port 23



VM1

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> QUERY TRAN NAME(A*,B*,C*) SHOW(MAXRGN,SERIAL,TRANSTAT)

Plex . . . Route . . . Wait . . .

Response for: QUERY TRAN NAME(A*,B*,C*) SHOW(MAXRGN,SERIAL,TRA... More: +

Trancode	MbrName	CC	LMaxRgn	Serial	TranStat
ADDINV	IMS1	0	0	N	N
ADDINV	IMS2	0	0	N	N
ADDPART	IMS1	0	0	N	N
ADDPART	IMS2	0	0	N	N
AOBMP	IMS1	0	0	N	N
AOBMP	IMS2	0	0	N	N
AOP	IMS1	0	0	N	N
AOP	IMS2	0	0	N	N
APOL11	IMS1	0	0	N	N
APOL11	IMS2	0	0	N	N
APOL12	IMS1	0	0	N	N
APOL12	IMS2	0	0	N	N
APOL13	IMS1	0	0	N	N
APOL13	IMS2	0	0	N	N
APOL14	IMS1	0	0	N	N
APOL14	IMS2	0	0	N	N

MA f A 04/015

Connected to remote server/host stlvm3.svl.ibm.com using port 23



File Action Manage resources SPOC View Options Help

PLEX1

IMS Single Point of Control

Command ==> RETP

Plex . . . Route . . . Wait . . .

Response for: QUERY DB NAME(*) TYPE(DLI)

DBName	MbrName	CC	TYPE
DBHIDJ03	IMS1	0	DL/I
DBHIDJ03	IMS2	0	DL/I
DBHIDJ03	IMS3	0	DL/I
DHVNTK03	IMS1	0	DL/I
DHVNTK03	IMS2	0	DL/I
DHVNTK03	IMS3	0	DL/I
DXHIDJ03	IMS1	0	DL/I
DXHIDJ03	IMS2	0	DL/I
DXHIDJ03	IMS3	0	DL/I
DXVNTK03	IMS1	0	DL/I
DXVNTK03	IMS2	0	DL/I
DXVNTK03	IMS3	0	DL/I

F1=Help

F3=Exit

F4=Showlog

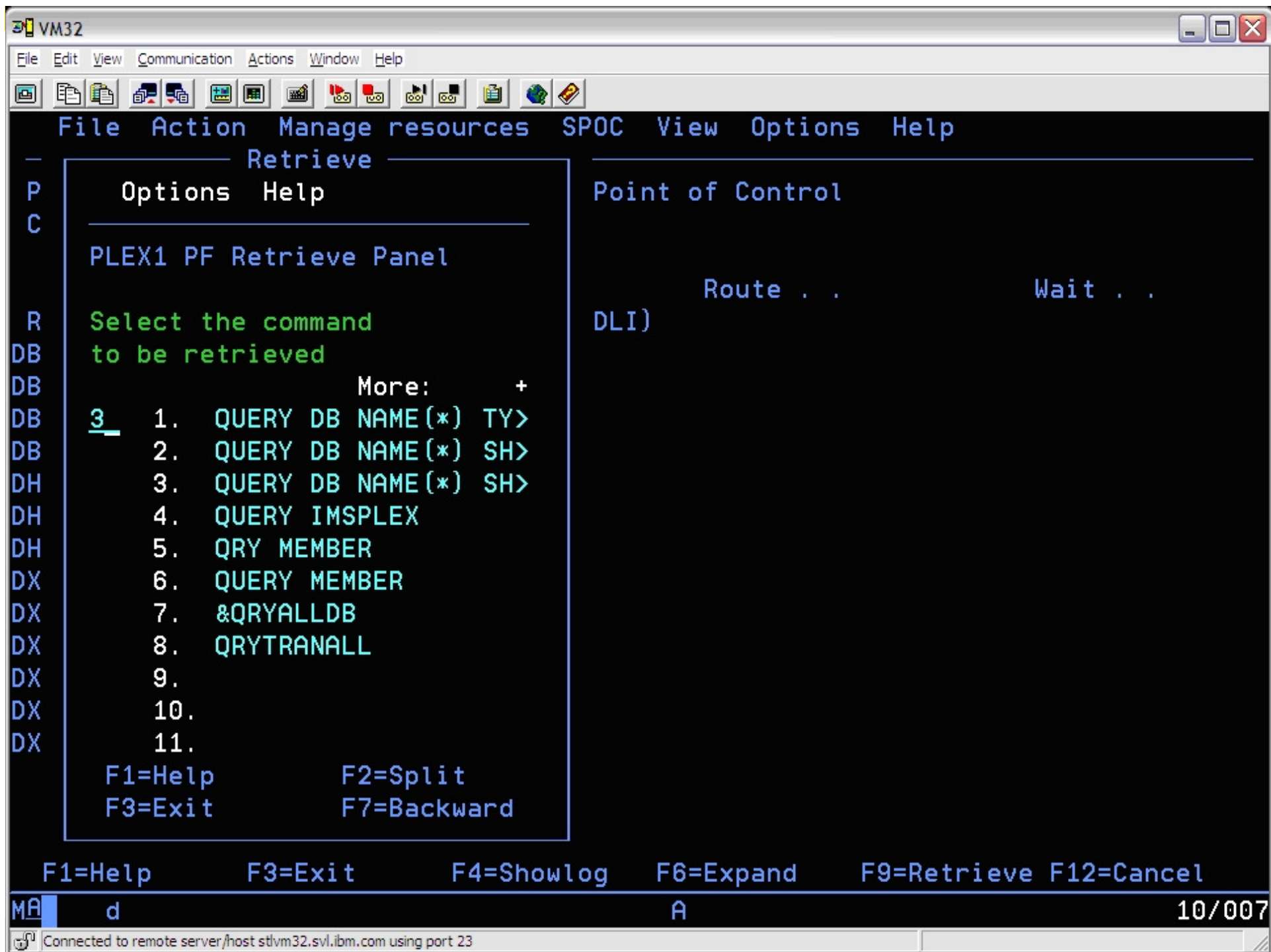
F6=Expand

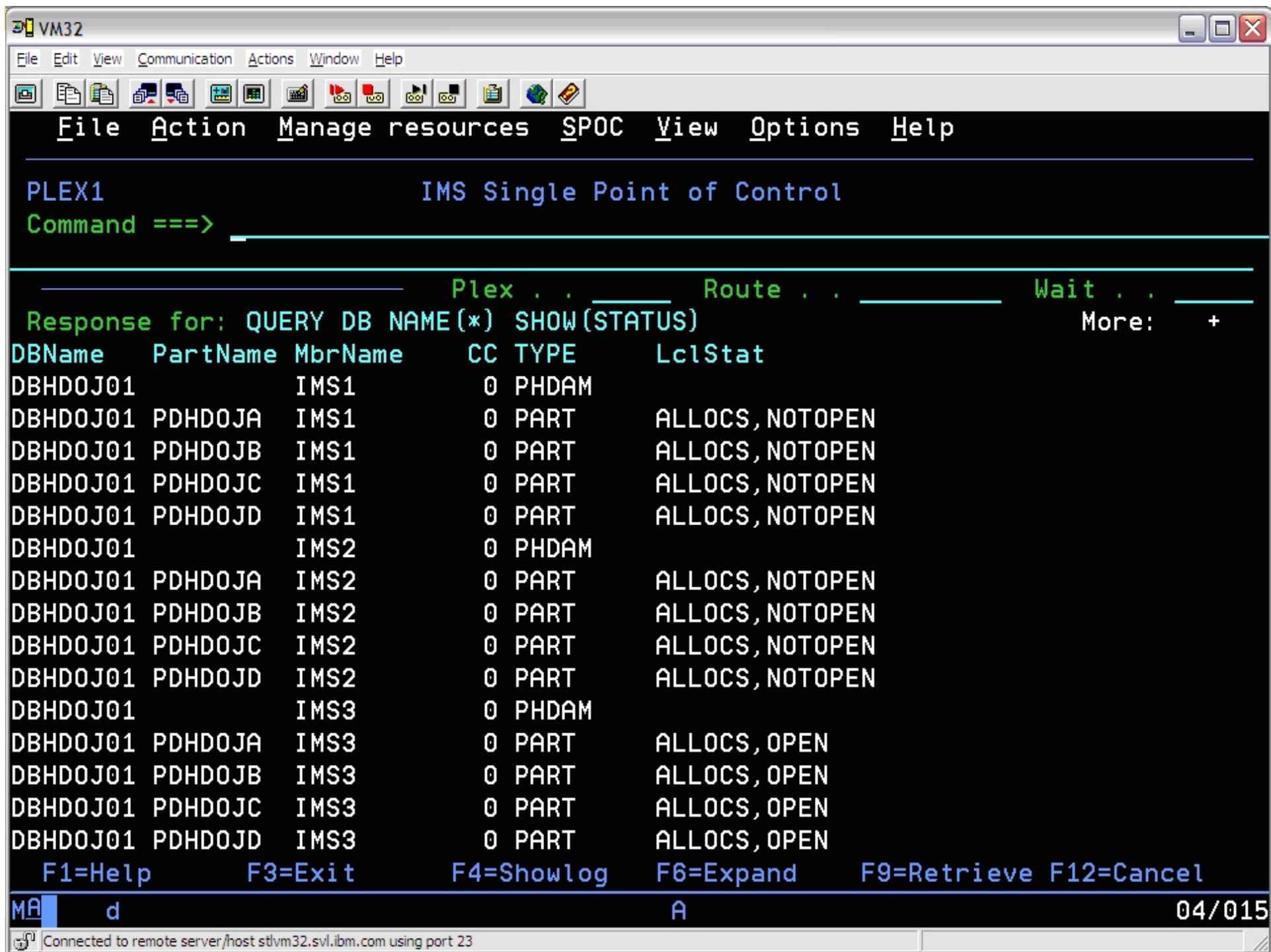
F9=Retrieve F12=Cancel

MR d

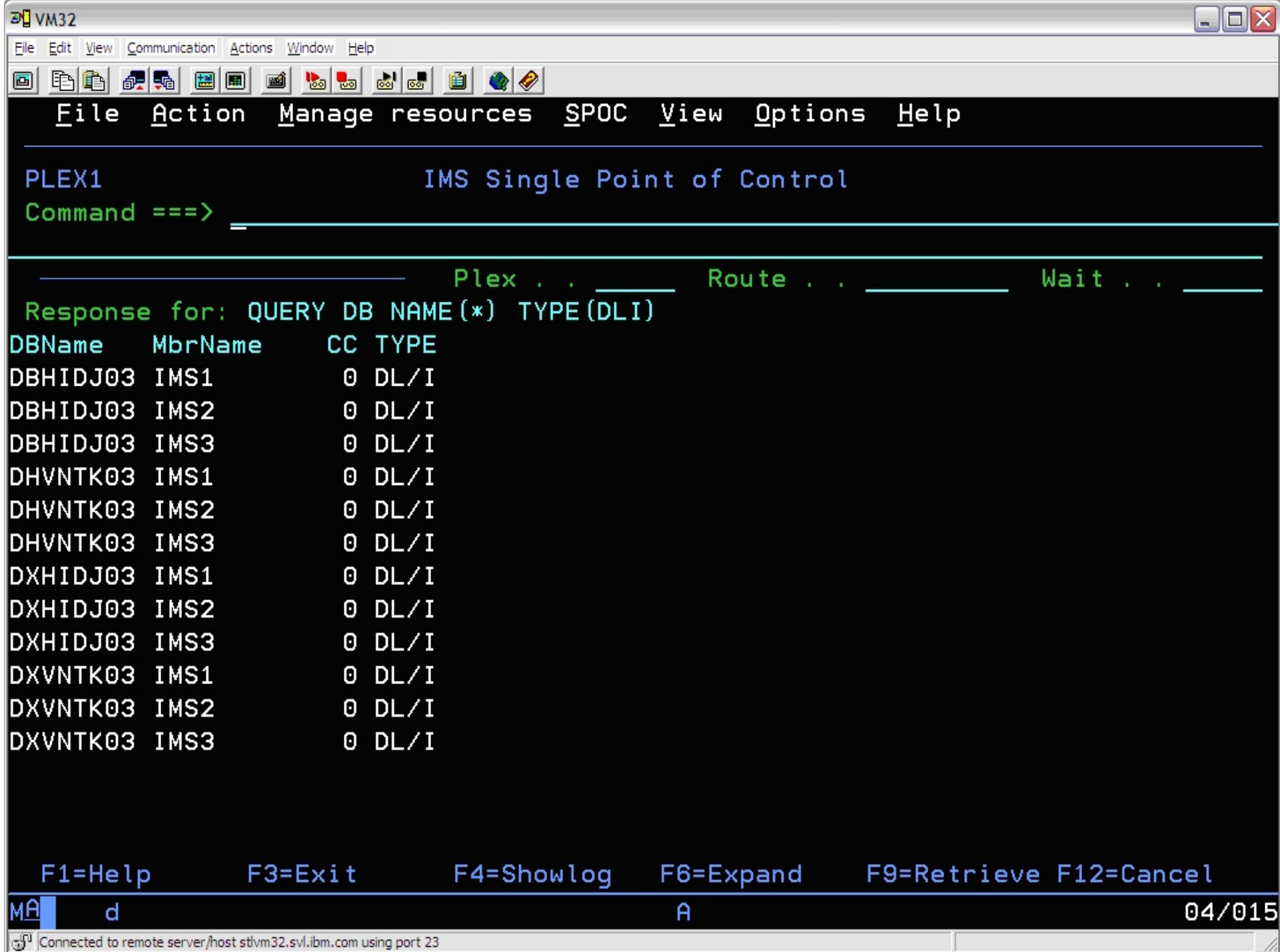
A

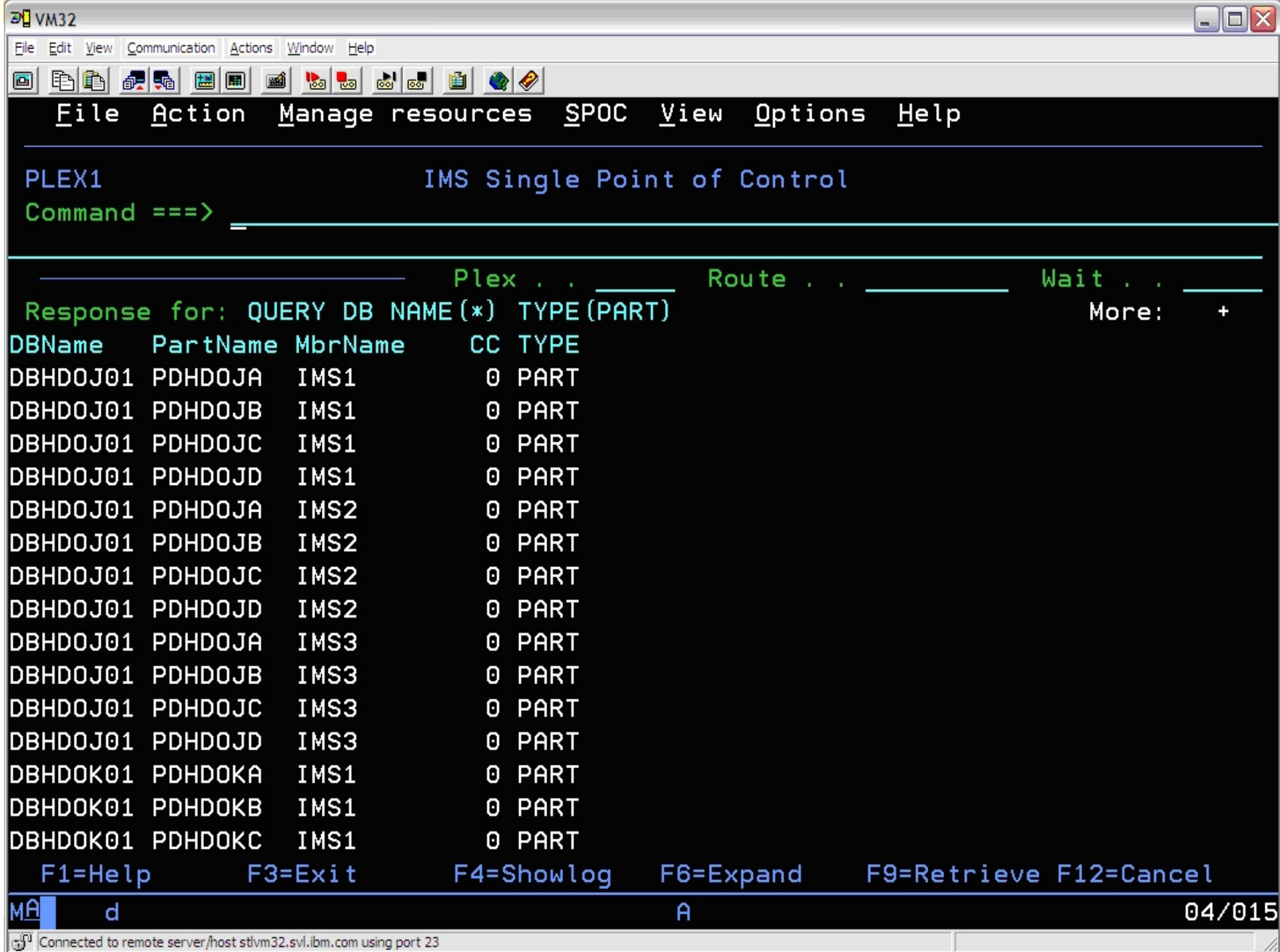
04/019

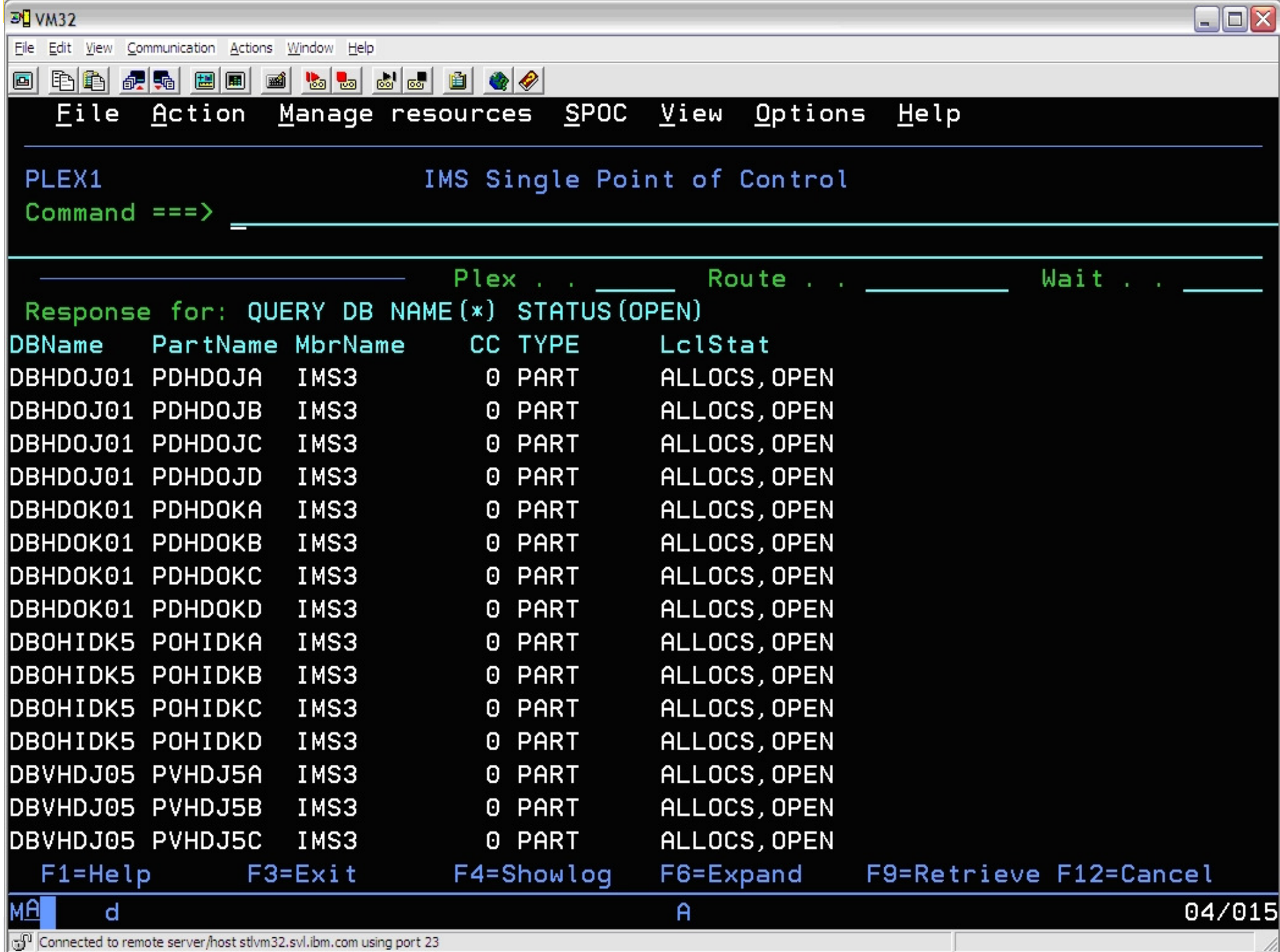


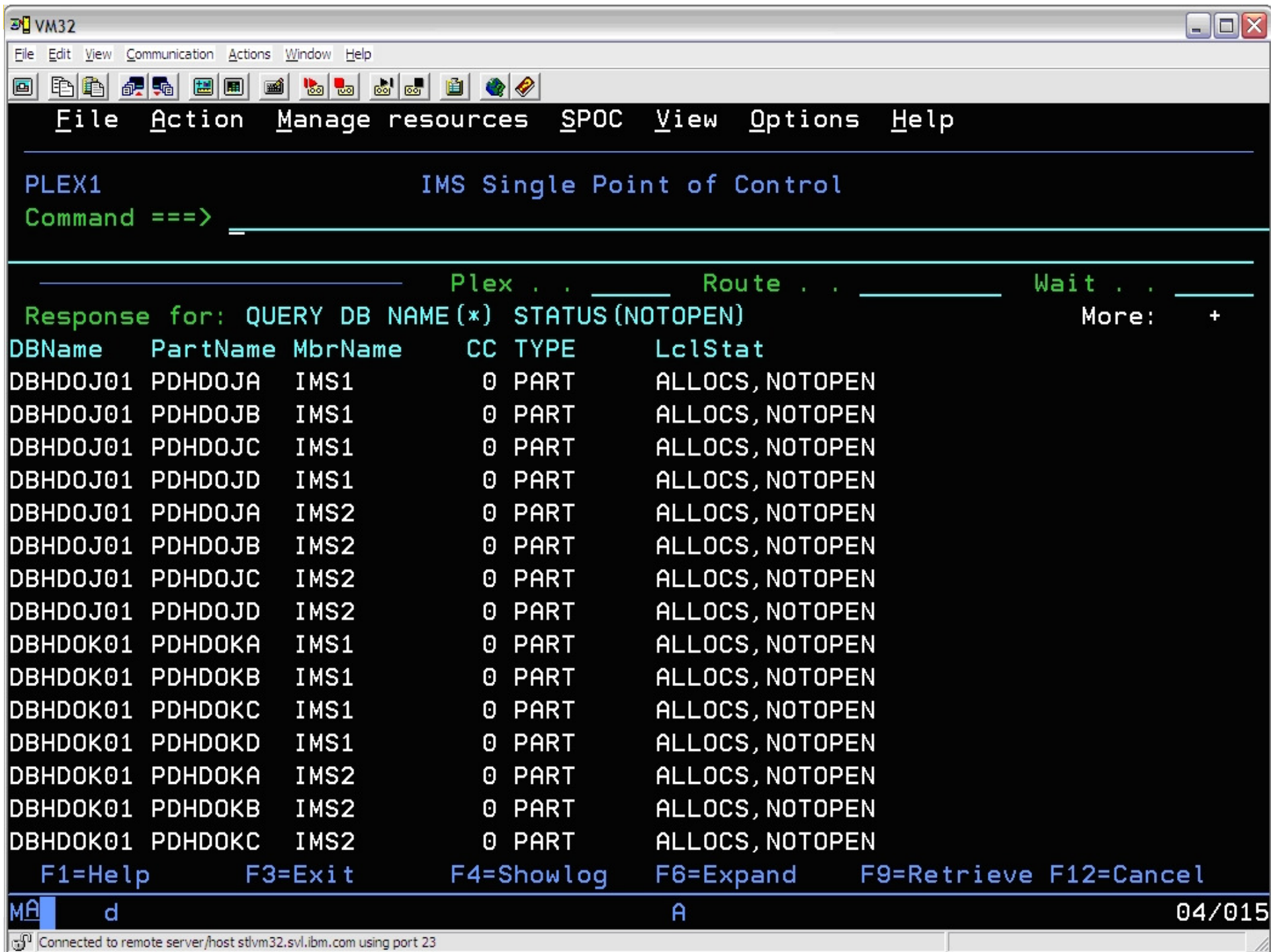


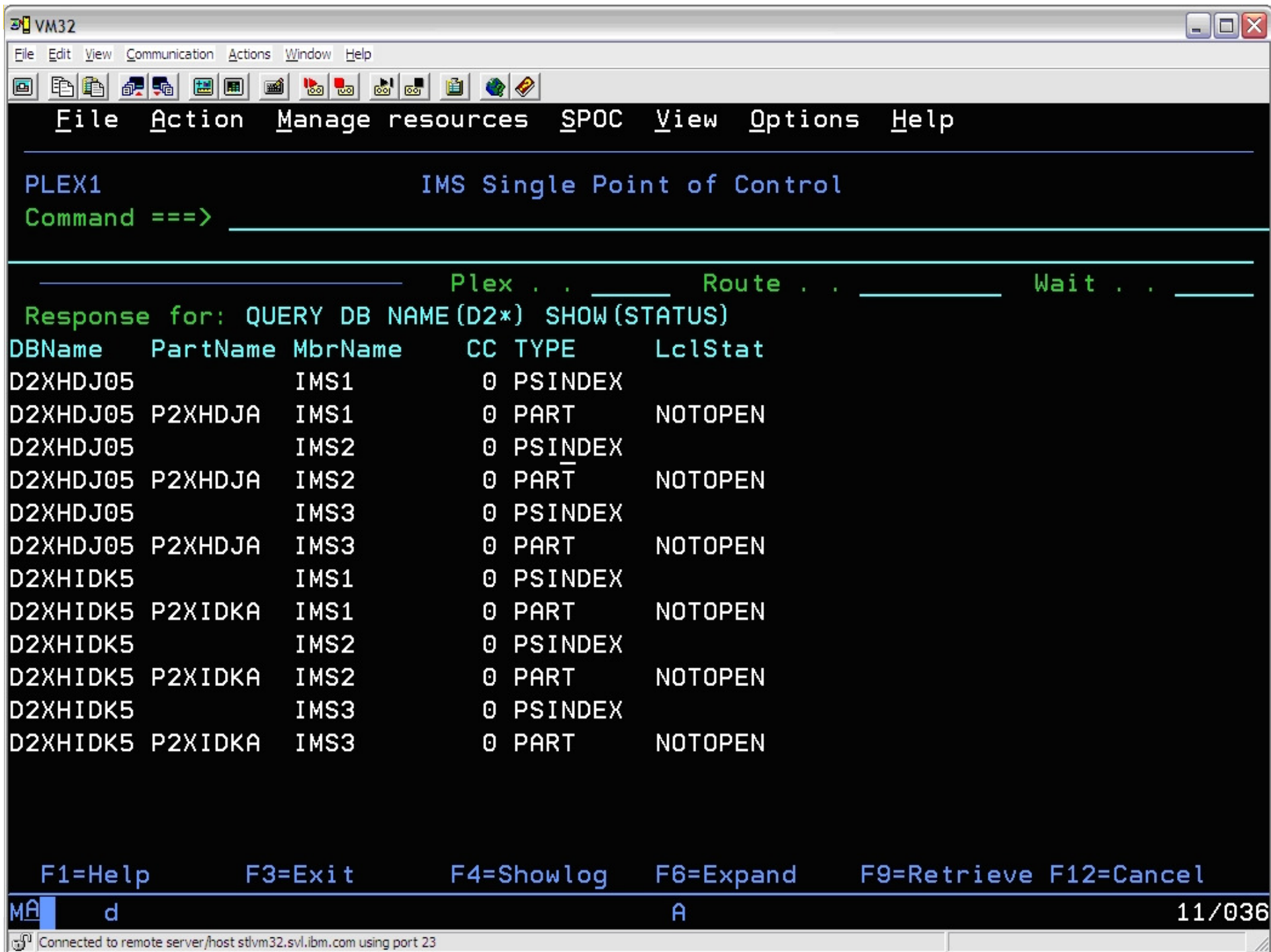
Querying Databases/Transactions











General VMs

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> _____

Plex . . . _____ Route . . . _____ Wait . . . _____

Response for: QUERY DB NAME(AUTODB,BE3ORDER) SHOW(ACCTYPE,RESI...

DBName	MbrName	CC	TYPE	LAcc	LRsdnt
AUTODB	IMS1	0	DL/I	UPD	N
AUTODB	IMS2	0	DL/I	UPD	N
BE3ORDER	IMS1	0	DL/I	EXCL	N
BE3ORDER	IMS2	0	DL/I	EXCL	N

F1=Help F3=Exit F4=Showlog F6=Expand F9=Retrieve F12=Cancel

MA e 04/015

Connected to remote server/host stlmvs1.svl.ibm.com using lu/pool ST11TG24 and port 23

General VMs

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> _

Plex . . . Route . . . Wait . . .

Response for: QUERY TRAN NAME(*) STATUS(BAL) More: +

Trancode	MbrName	CC	LclStat
CELTRAN1	IMS1	0	BAL
CELTRAN1	IMS2	0	BAL
CELTRAN2	IMS1	0	BAL
CELTRAN2	IMS2	0	BAL
CELTRAN3	IMS1	0	BAL
CELTRAN3	IMS2	0	BAL
CELTRAN4	IMS1	0	BAL
CELTRAN4	IMS2	0	BAL
HPCSTCL1	IMS1	0	BAL
HPCSTCL1	IMS2	0	BAL
HRD1	IMS1	0	BAL
HRD1	IMS2	0	BAL
HRD2	IMS1	0	BAL
HRD2	IMS2	0	BAL
HRD3	IMS1	0	BAL
HRD3	IMS2	0	BAL
HRD4	IMS1	0	BAL
HRD4	IMS2	0	BAL
HRD5	IMS1	0	BAL
HRD5	IMS2	0	BAL
HRD6	IMS1	0	BAL
HRD6	IMS2	0	BAL
IAPMDI26	IMS1	0	BAL

F1=Help F3=Exit F4=Showlog F6=Expand F9=Retrieve F12=Cancel

MA e A 04/015

Connected to remote server/host stimvs1.svl.ibm.com using lu/pool ST11TJ83 and port 23

General VMs

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> _

Plex Route Wait

Response for: QUERY TRAN NAME(A*) SHOW(MAXRGN,RESP,SERIAL,TRAN... More: +

Trancode	MbrName	CC	LMaxRgn	Resp	Serial	TranStat
ADDINV	IMS1	0	0	N	N	N
ADDINV	IMS2	0	0	N	N	N
ADDPART	IMS1	0	0	N	N	N
ADDPART	IMS2	0	0	N	N	N
AOBMP	IMS1	0	0	N	N	N
AOBMP	IMS2	0	0	N	N	N
AOP	IMS1	0	0	Y	N	N
AOP	IMS2	0	0	Y	N	N
APOL11	IMS1	0	0	Y	N	N
APOL11	IMS2	0	0	Y	N	N
APOL12	IMS1	0	0	N	N	N
APOL12	IMS2	0	0	N	N	N
APOL13	IMS1	0	0	N	N	N
APOL13	IMS2	0	0	N	N	N
APOL14	IMS1	0	0	N	N	N
APOL14	IMS2	0	0	N	N	N
APOL15	IMS1	0	0	N	N	N
APOL15	IMS2	0	0	N	N	N
APOL16	IMS1	0	0	N	N	N
APOL16	IMS2	0	0	N	N	N
APOL17	IMS1	0	0	N	N	N
APOL17	IMS2	0	0	N	N	N
APOL18	IMS1	0	0	N	N	N

F1=Help F3=Exit F4=Showlog F6=Expand F9=Retrieve F12=Cancel

MA e A 04/015

Connected to remote server/host stimvs1.svl.ibm.com using lu/pool ST11TJ83 and port 23

Queuing/Dequeuing Messages to/from Transactions

VM1

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> _

----- Plex . . Route . . Wait . .

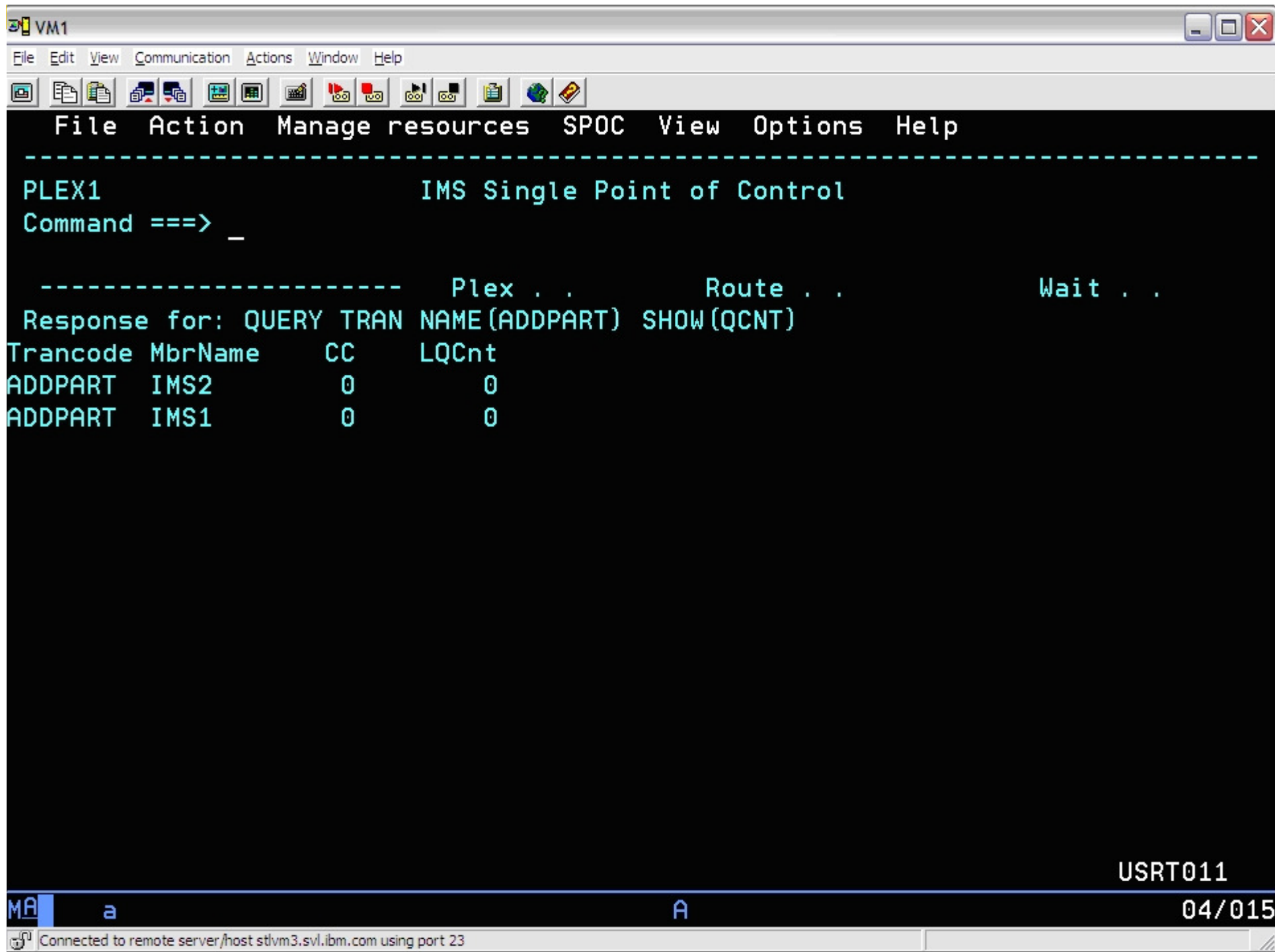
Response for: QUERY TRAN NAME(ADDPART) SHOW(ALL) More: >

Trancode	MbrName	CC	PSBname	LCls	LQCnt	LLCT	LPLCT	LPLCTTime	LCPRI	LNPRI
ADDPART	IMS1	0	DFSSAM04	4	0	2	65535	6553500	10	7
ADDPART	IMS2	0	DFSSAM04	4	0	2	65535	6553500	10	7

USRT011

MA a A 04/015

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VM1

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> QUEUE TRAN NAME(ADDPART) OPTION(ENQ) DATA(MESSAGE1)

----- Plex . . Route . . Wait . .

Response for: QUEUE TRAN NAME(ADDPART) OPTION(ENQ) DATA(MESSAG...

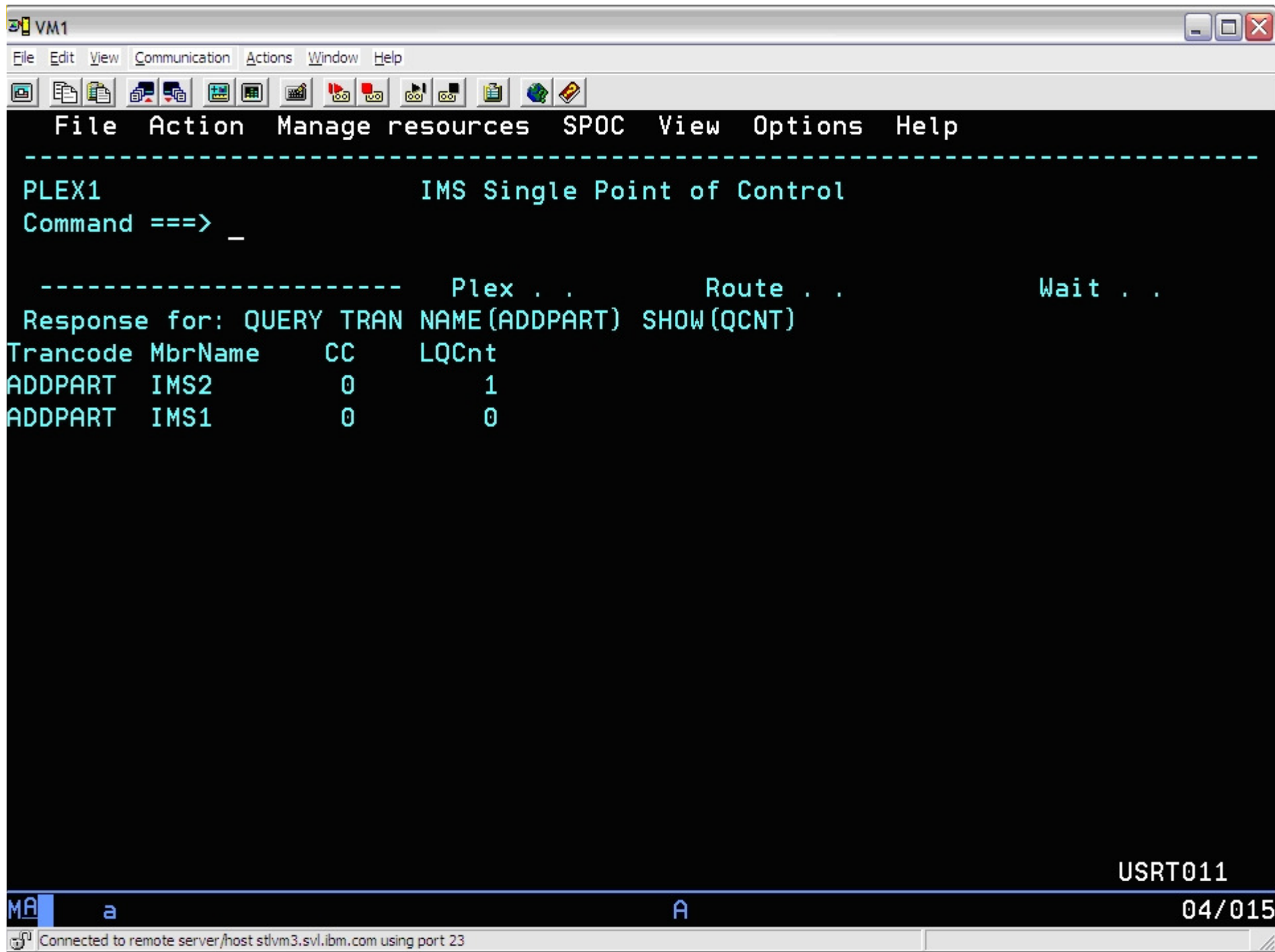
Trancode MbrName CC

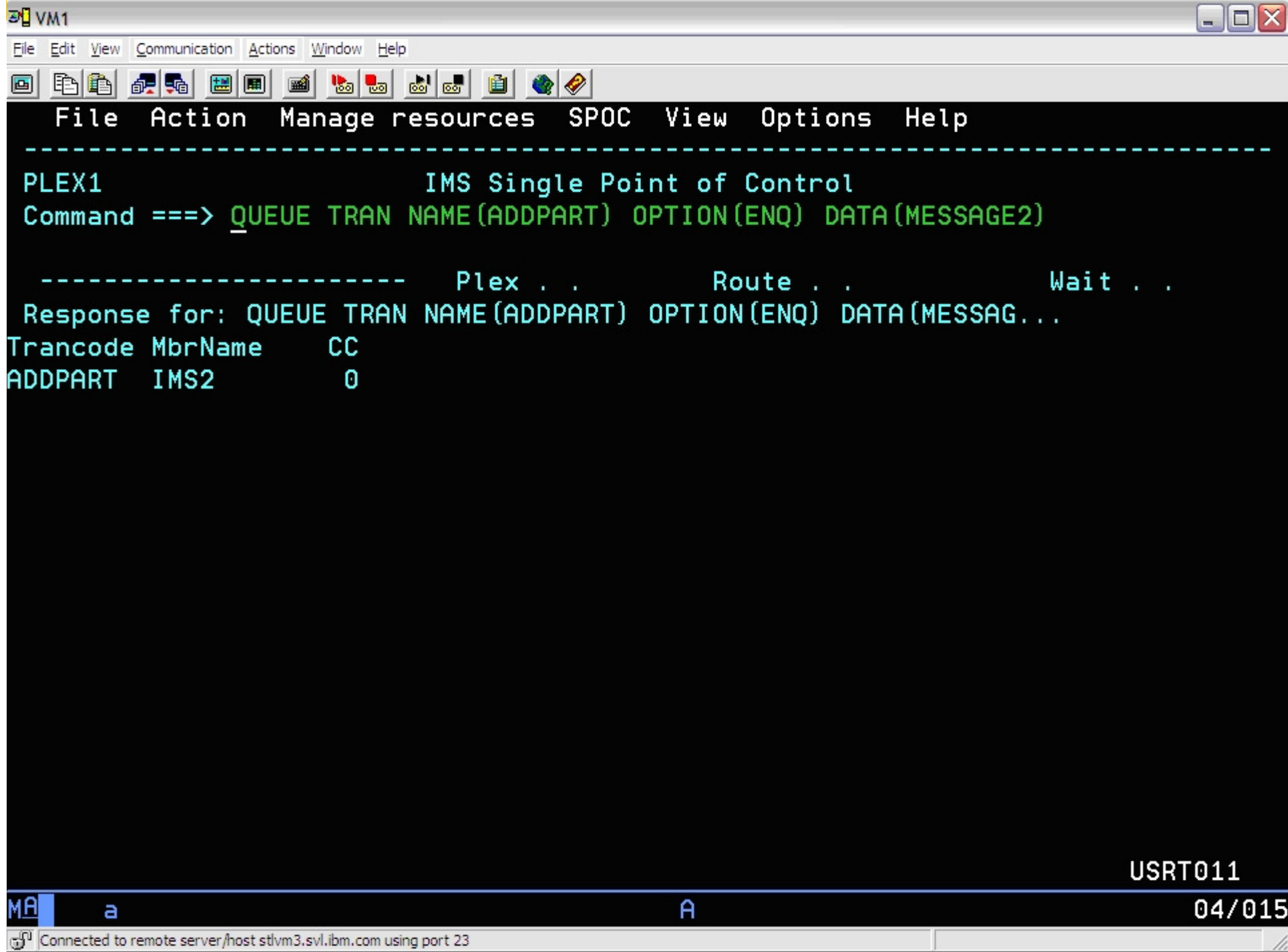
ADDPART IMS2 0

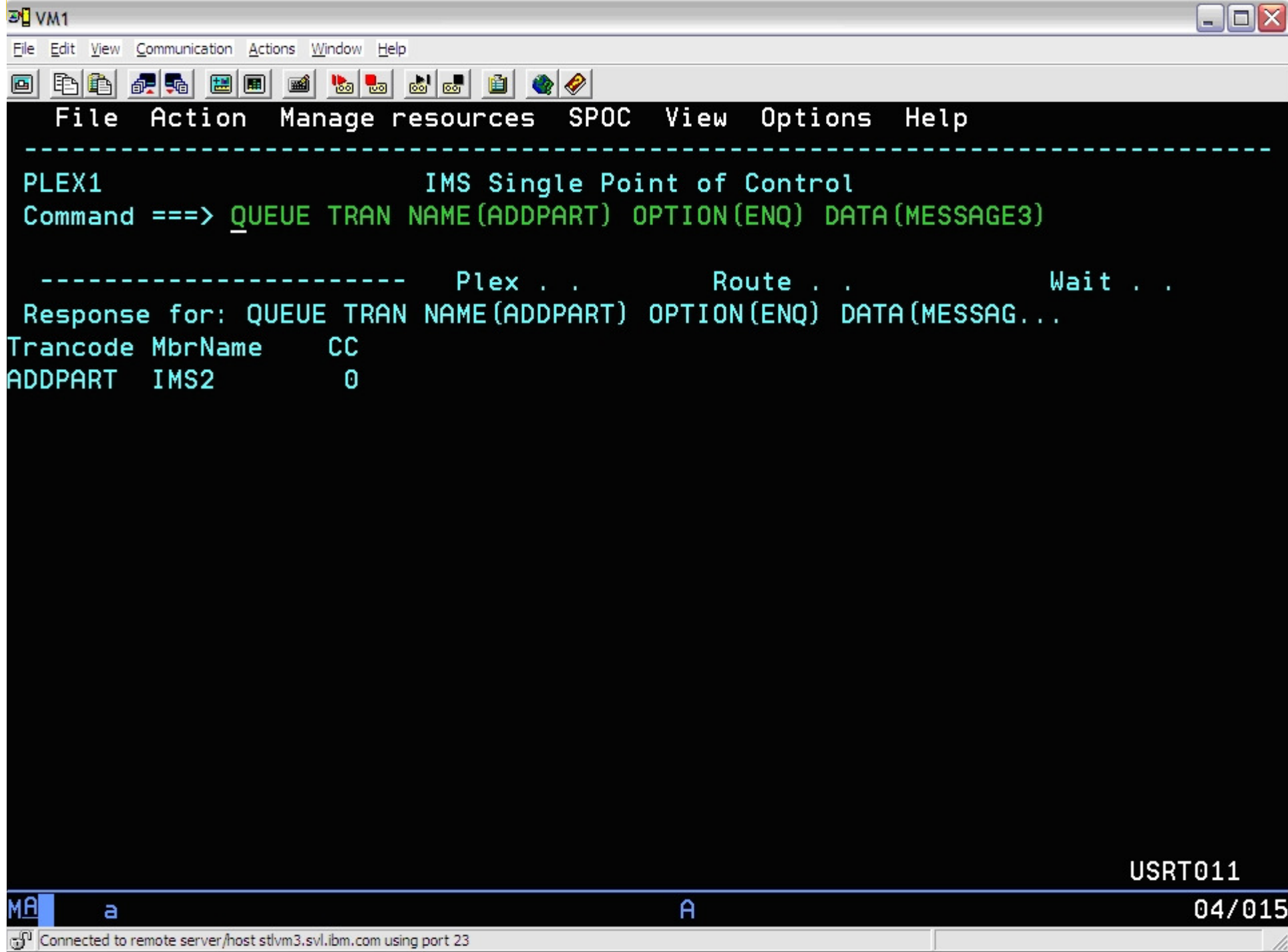
USRT011

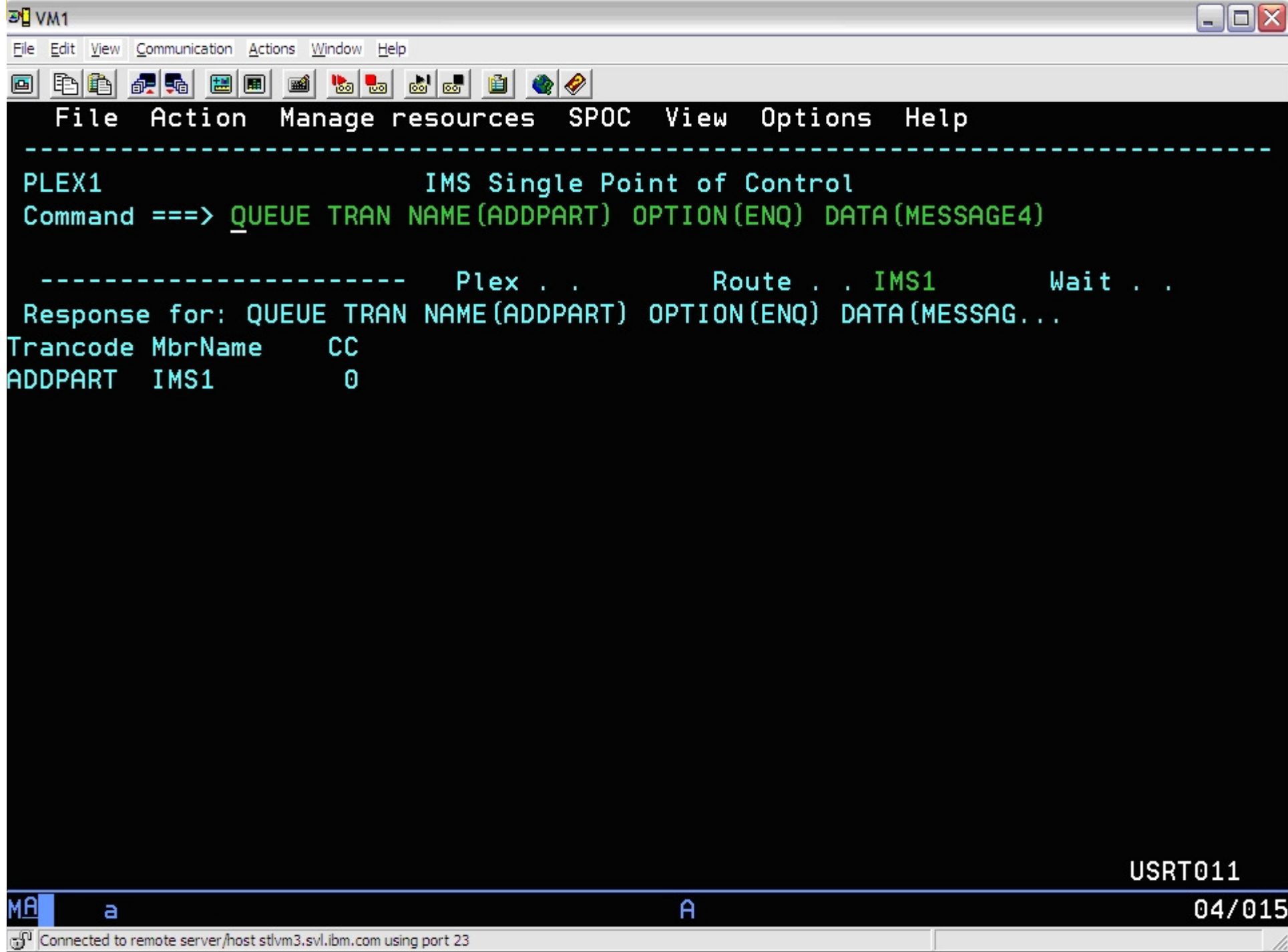
MA a A 04/015

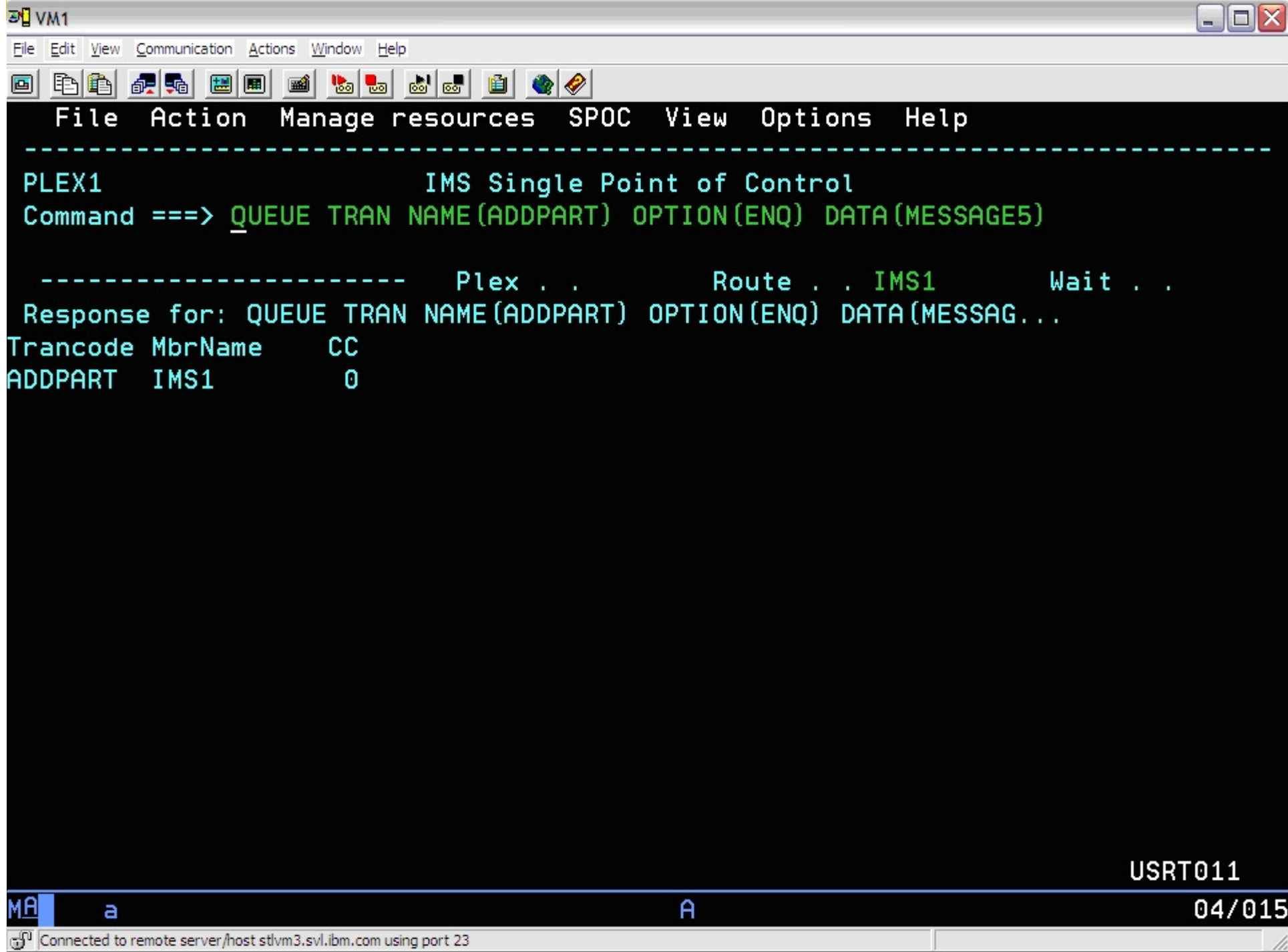
Connected to remote server/host stlv3.svl.ibm.com using port 23









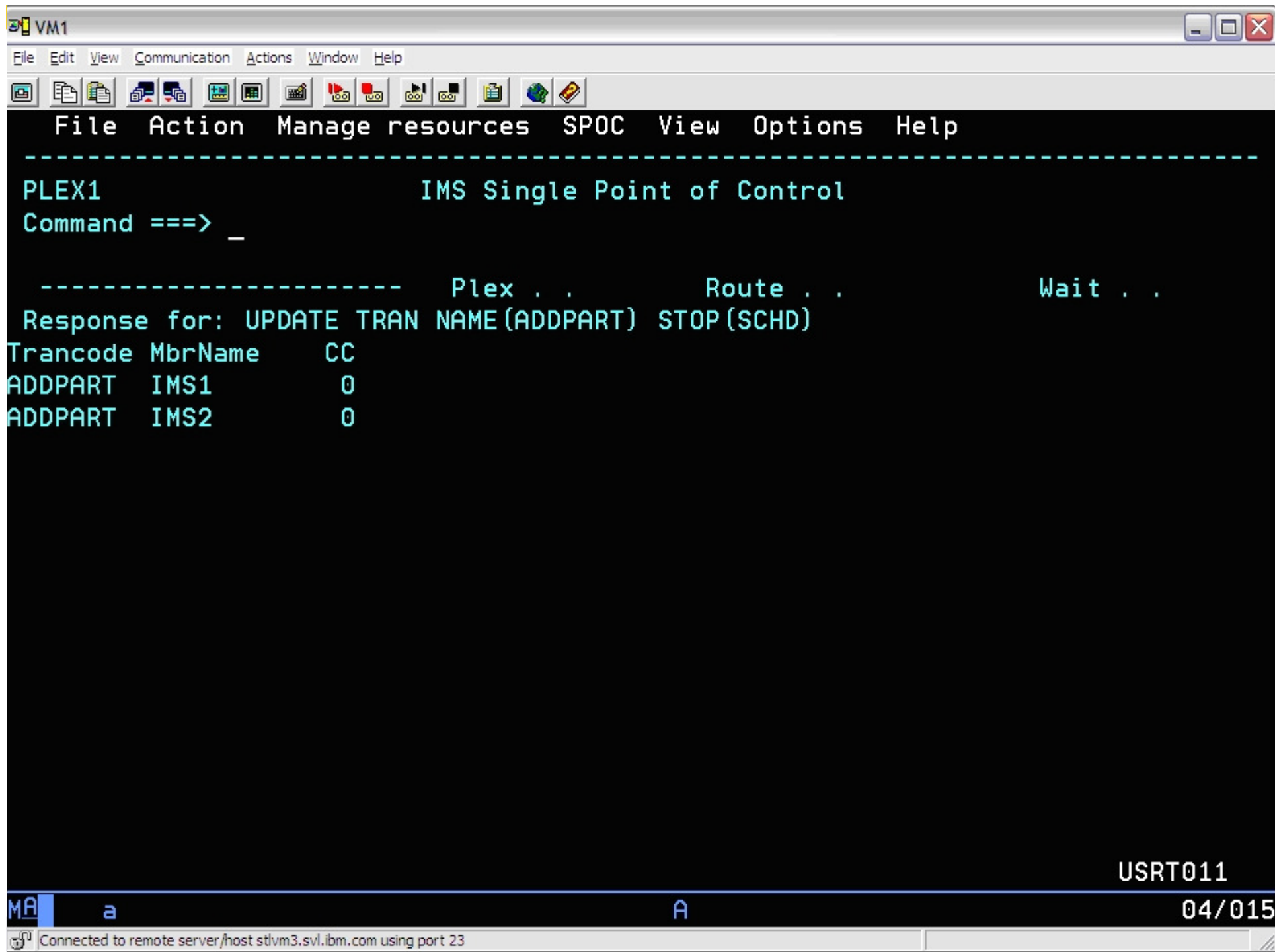


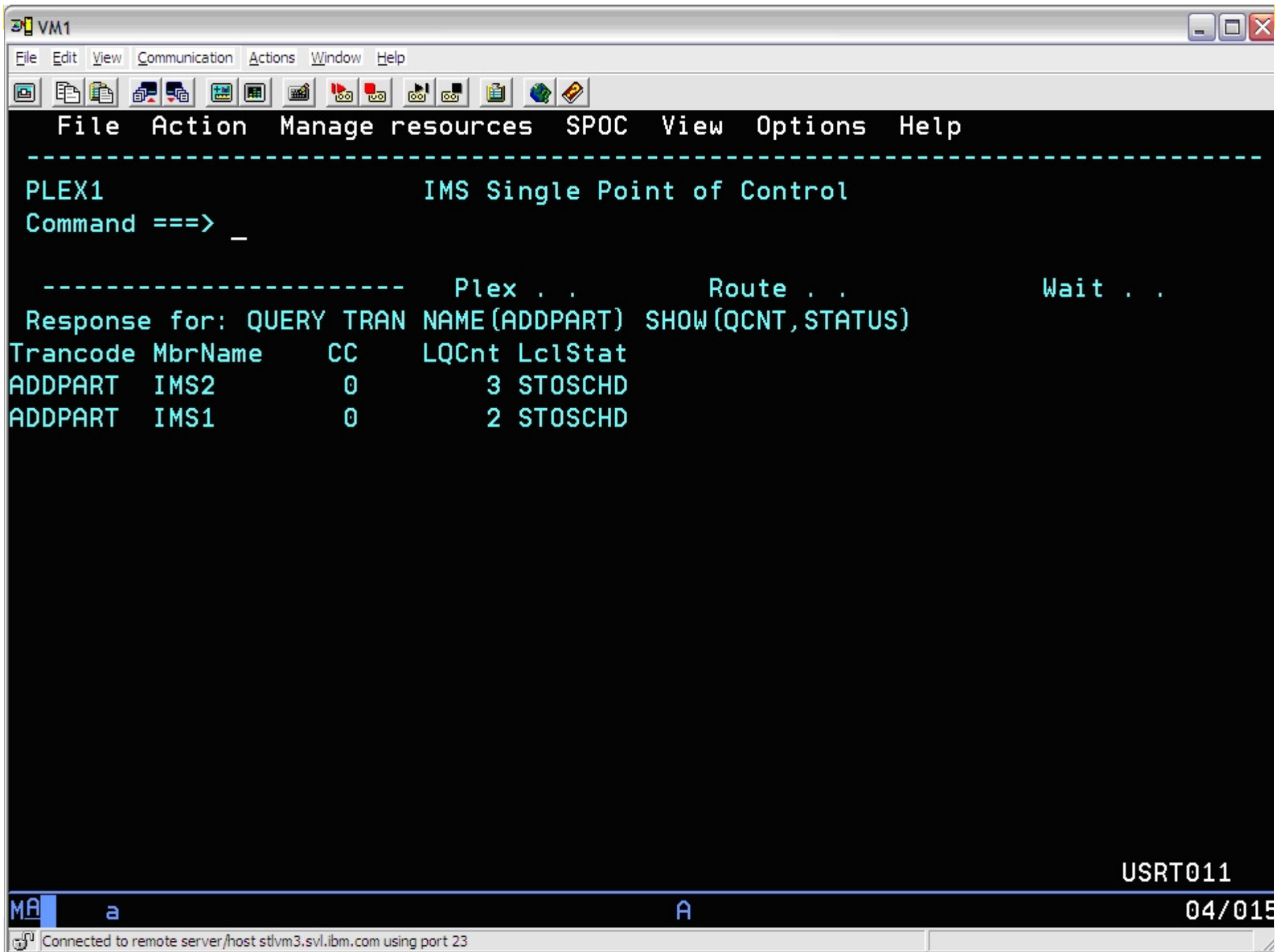
Command ==>

Response for: QUERY TRAN NAME(ADDPART) SHOW(QCNT)

Trancode	MbrName	CC	LQCnt
ADDPART	IMS2	0	3
ADDPART	IMS1	0	2

MA a A 04/015





Command ==>

Response for: QUEUE TRAN NAME(ADDPART) OPTION(DEQ1)

ADDPART	IMS2	0	1
---------	------	---	---

ADDPART	IMS1	0	1
---------	------	---	---

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04/015

VM1

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> _

----- Plex . . Route . . Wait . .

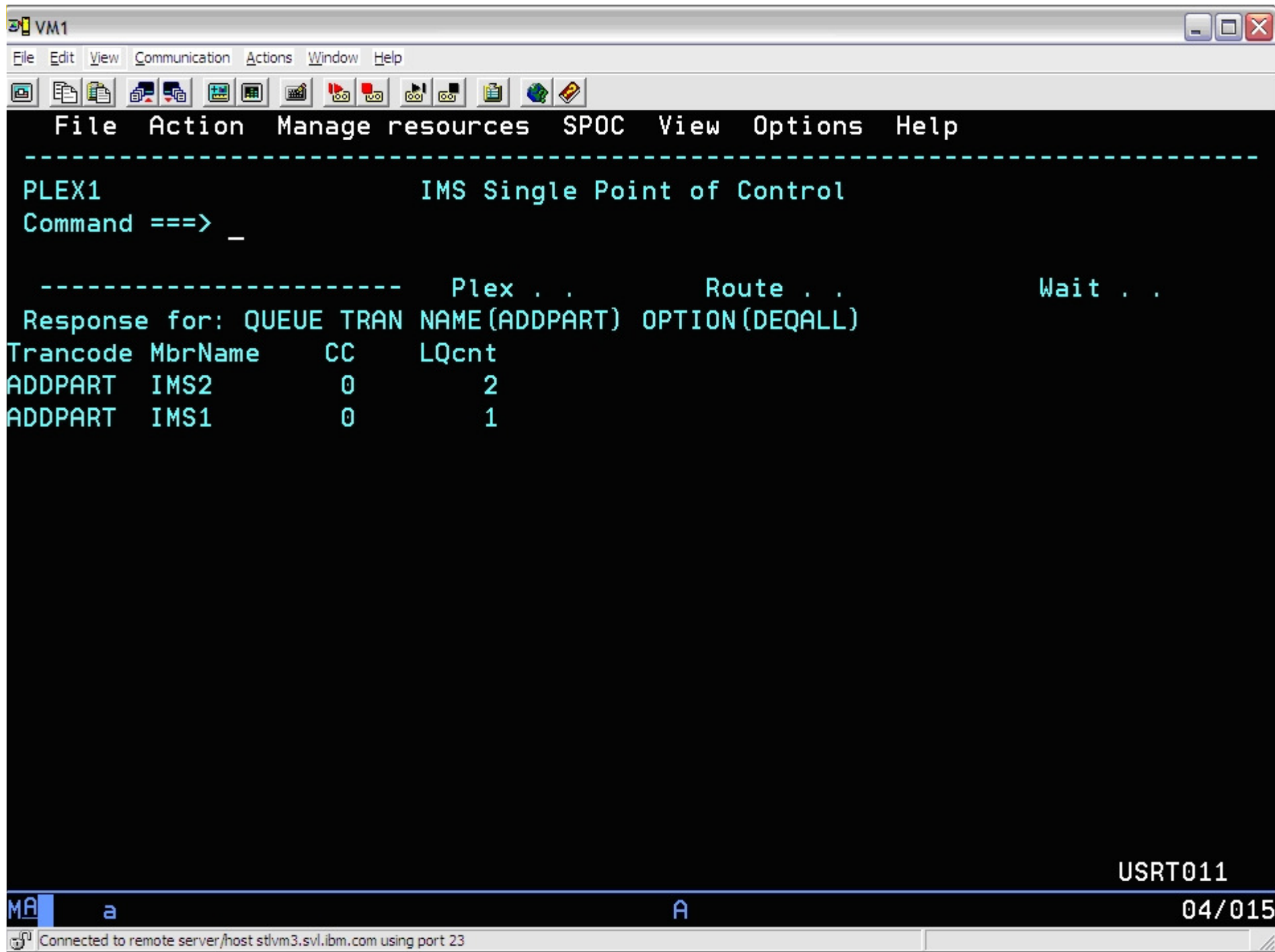
Response for: QUERY TRAN NAME(ADDPART) SHOW(QCNT,STATUS)

Trancode	MbrName	CC	LQCnt	LclStat
ADDPART	IMS2	0	2	STOSCHD
ADDPART	IMS1	0	1	STOSCHD

USRT011

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VM1

File Edit View Communication Actions Window Help

File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> _

----- Plex . . Route . . Wait . .

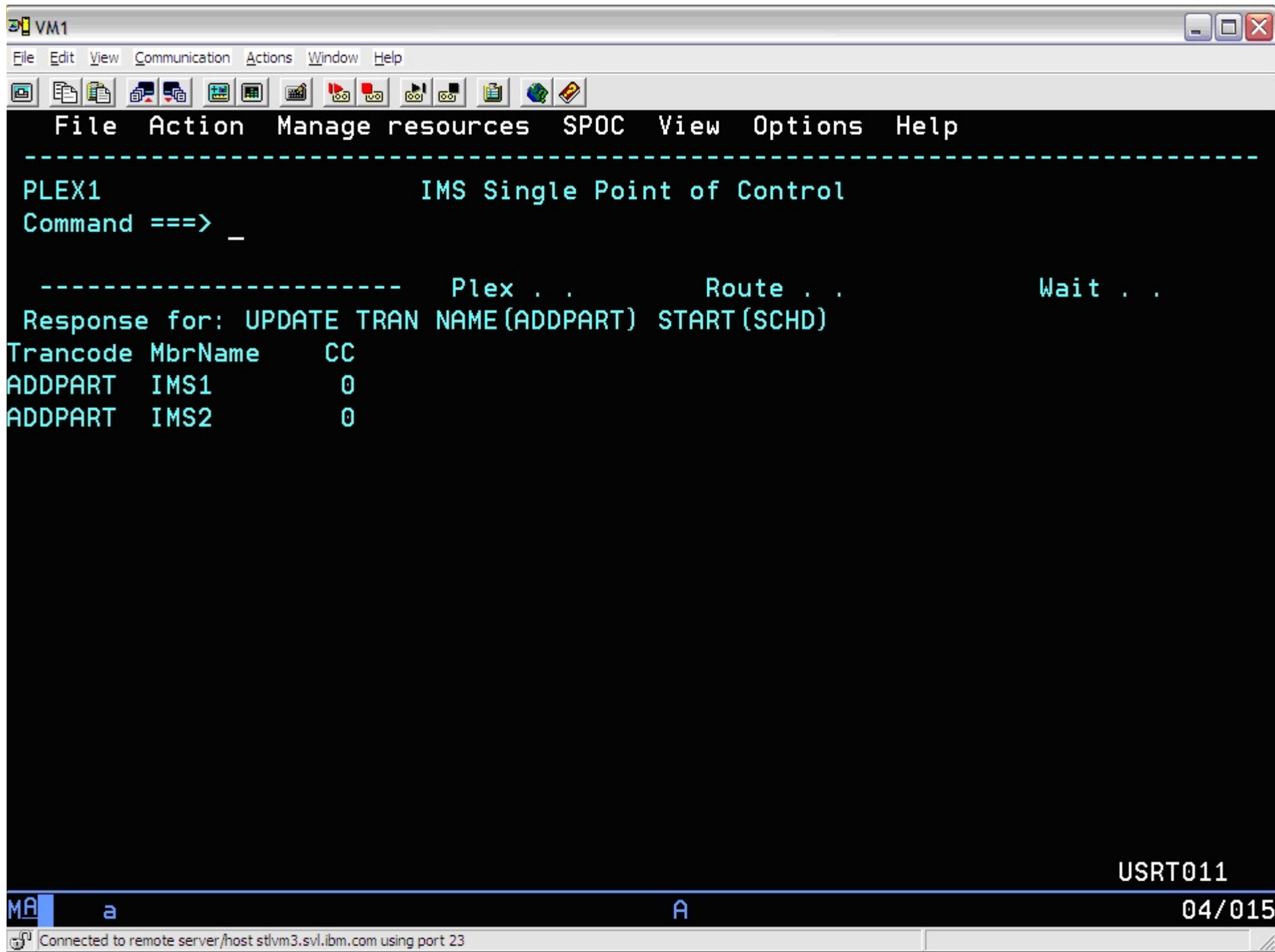
Response for: QUERY TRAN NAME(ADDPART) SHOW(QCNT,STATUS)

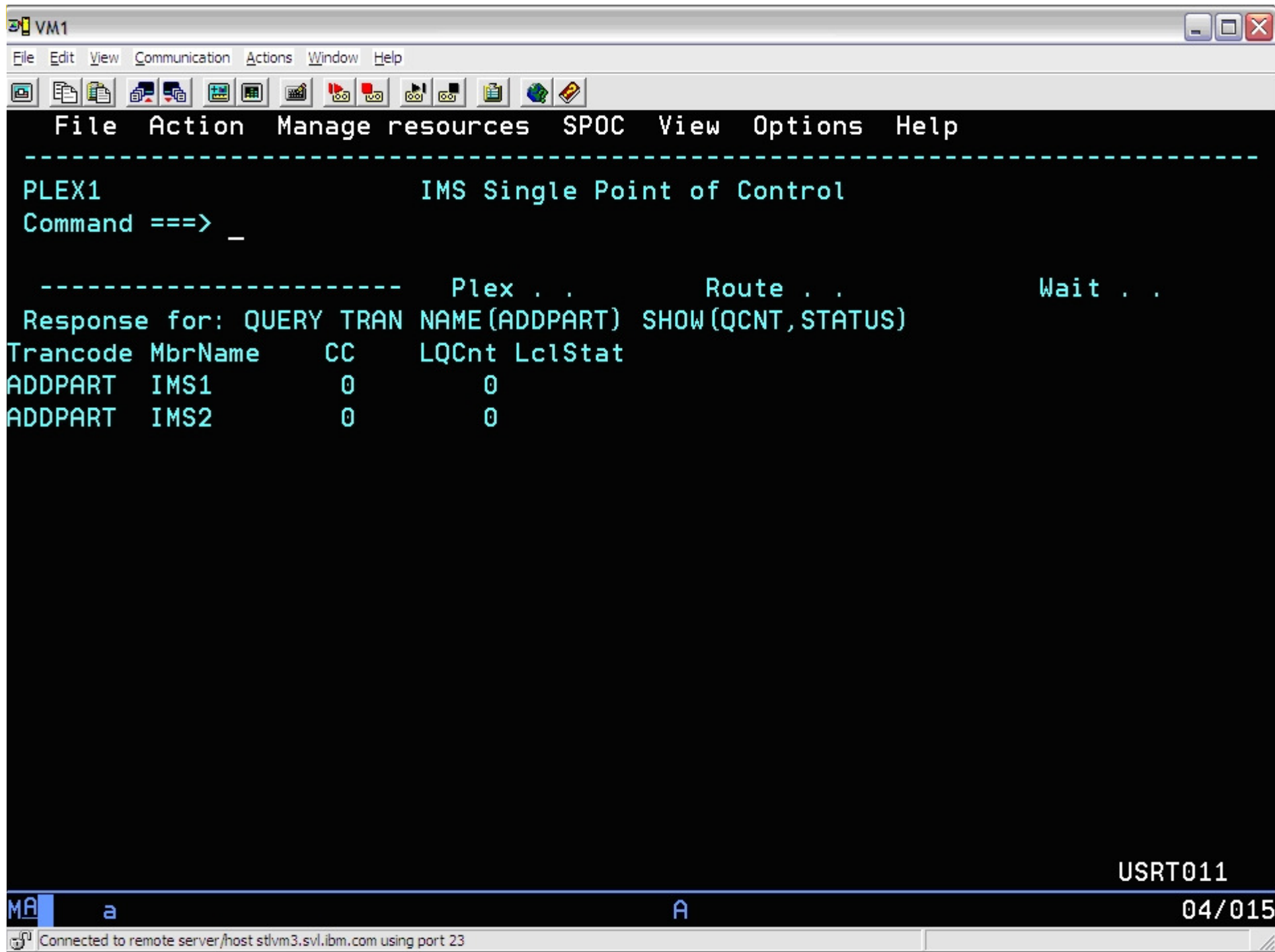
Trancode	MbrName	CC	LQCnt	LclStat
ADDPART	IMS1	0	0	STOSCHD
ADDPART	IMS2	0	0	STOSCHD

USRT011

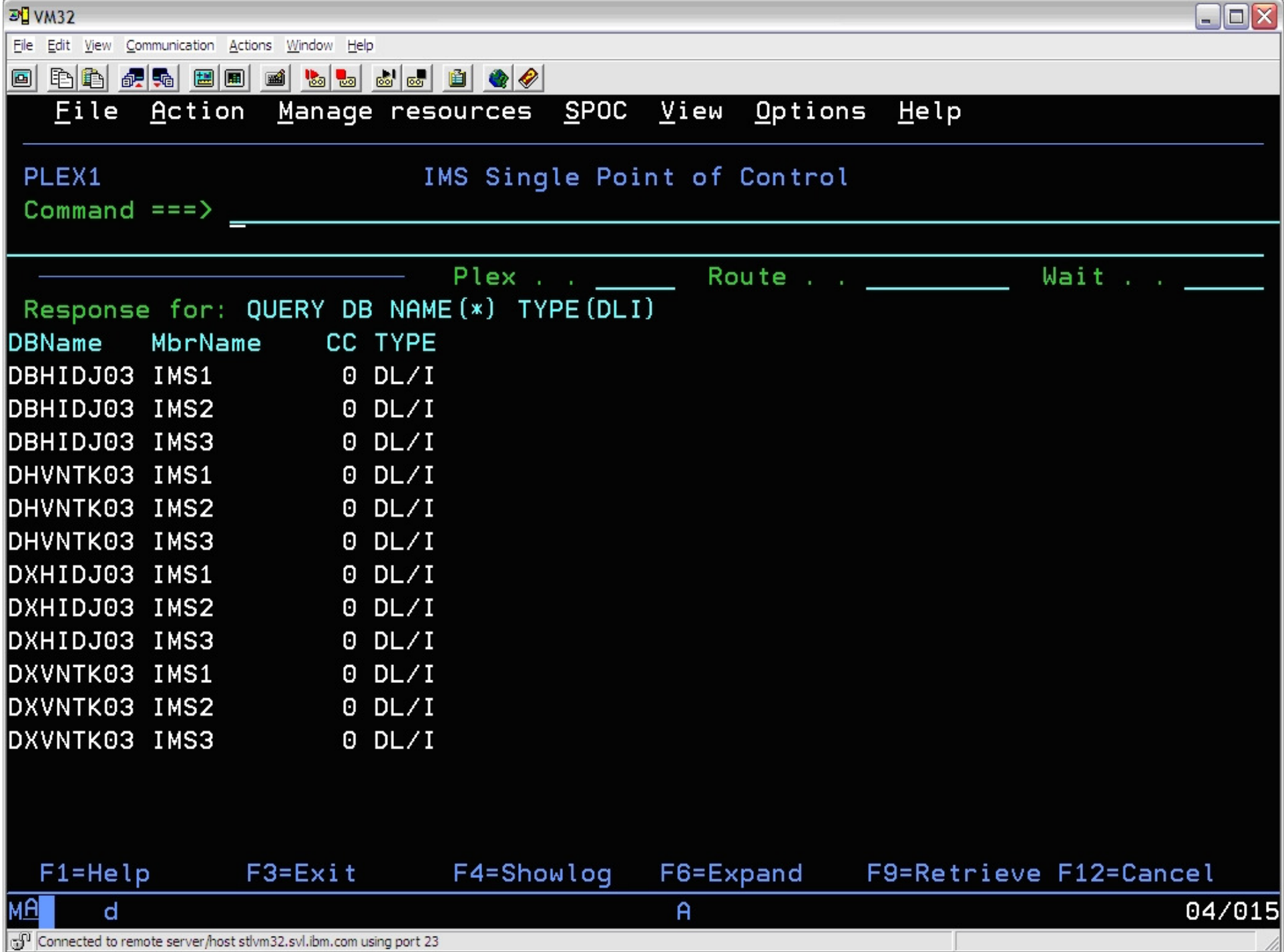
MA a A 04/015

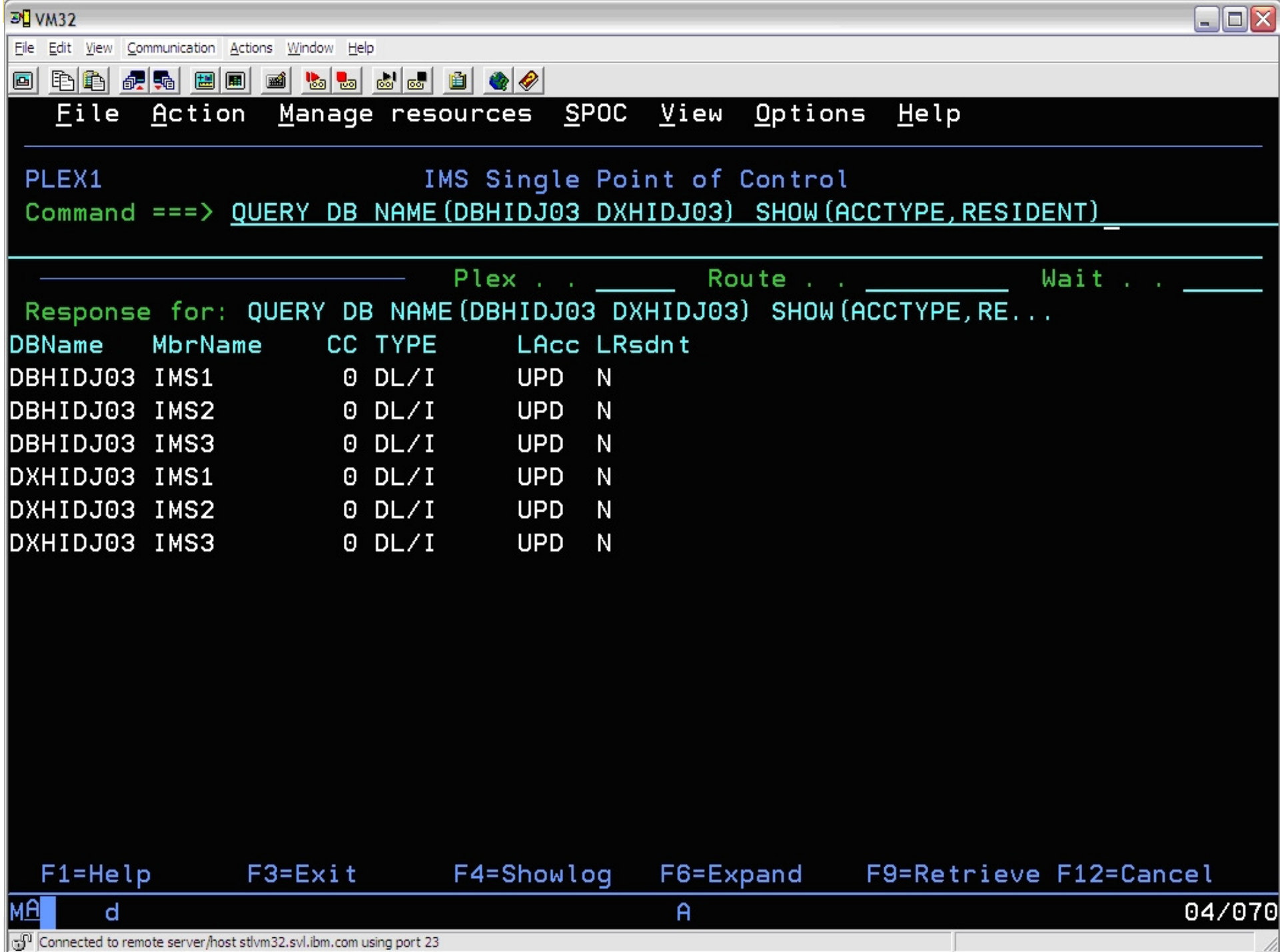
Connected to remote server/host stlvm3.svl.ibm.com using port 23

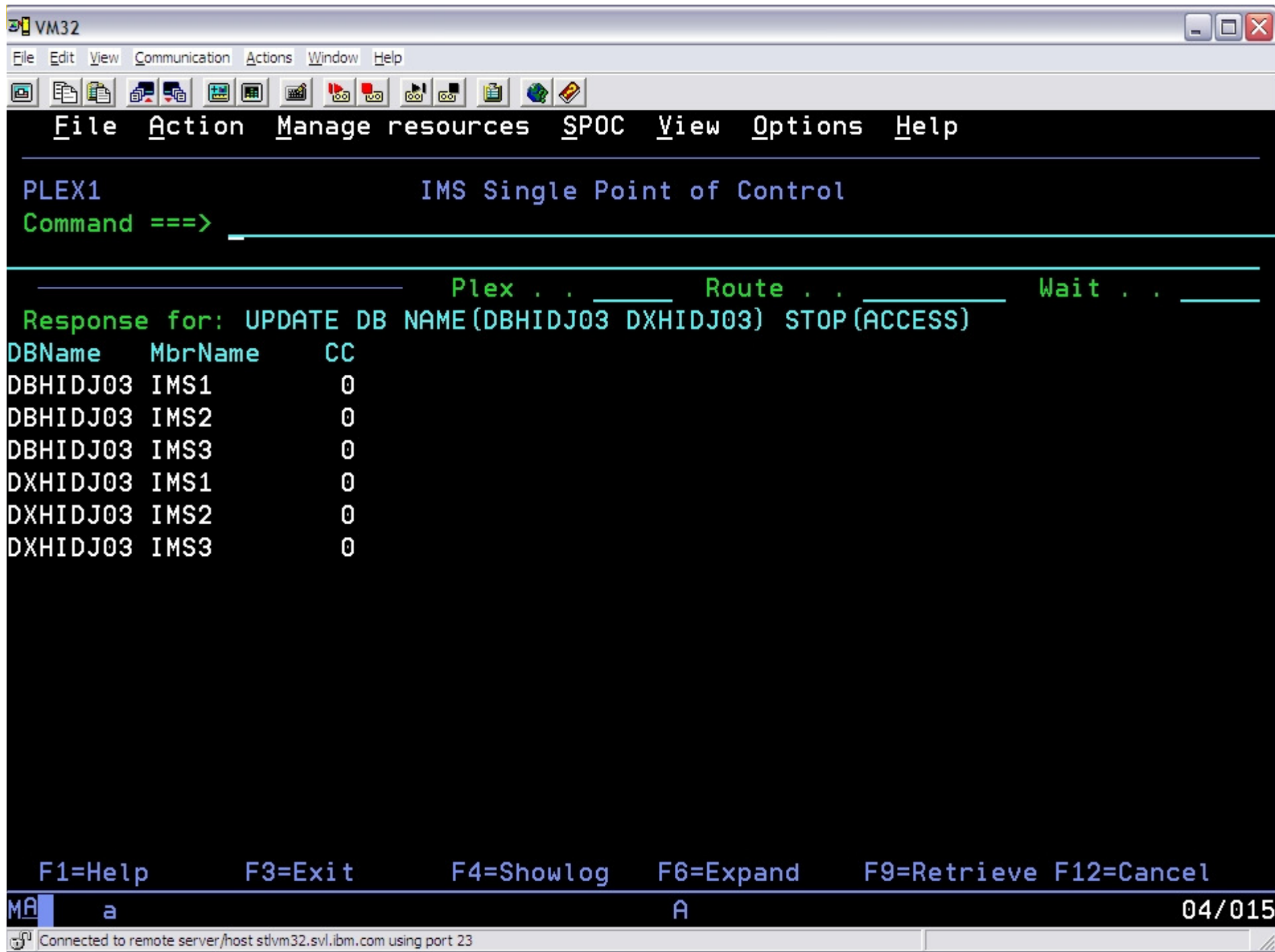




Updating Databases







































VM32

File Edit View Communication Actions Window Help



File Action Manage resources SPOC View Options Help

PLEX1 IMS Single Point of Control

Command ==> UPDATE DB NAME(DBHIDJ03 DXHIDJ03) START(ACCESS) SET(ACCTYPE(EXCL))

Plex . . . Route . . . Wait . . .

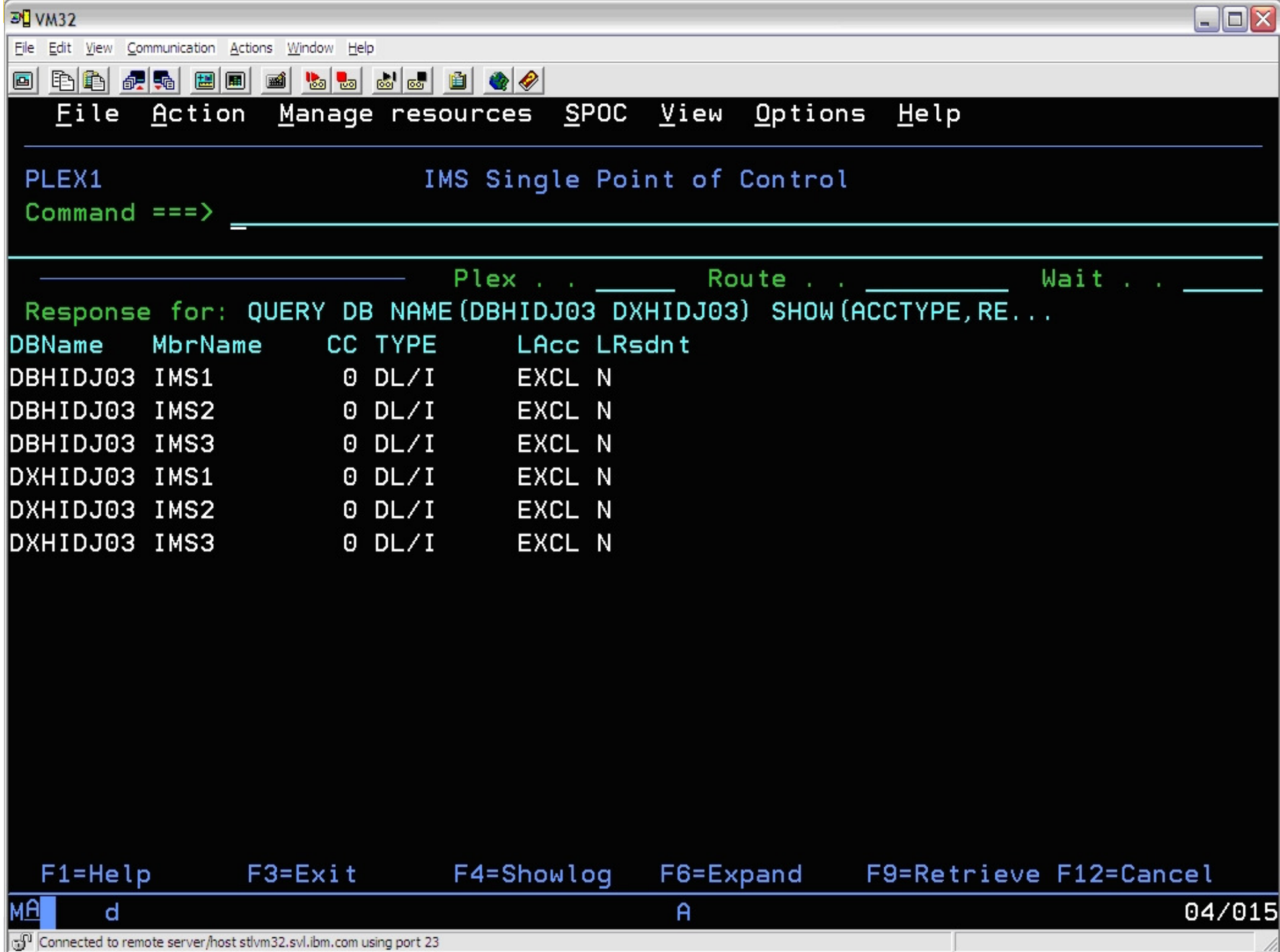
Response for: UPDATE DB NAME(DBHIDJ03 DXHIDJ03) START(ACCESS) ...

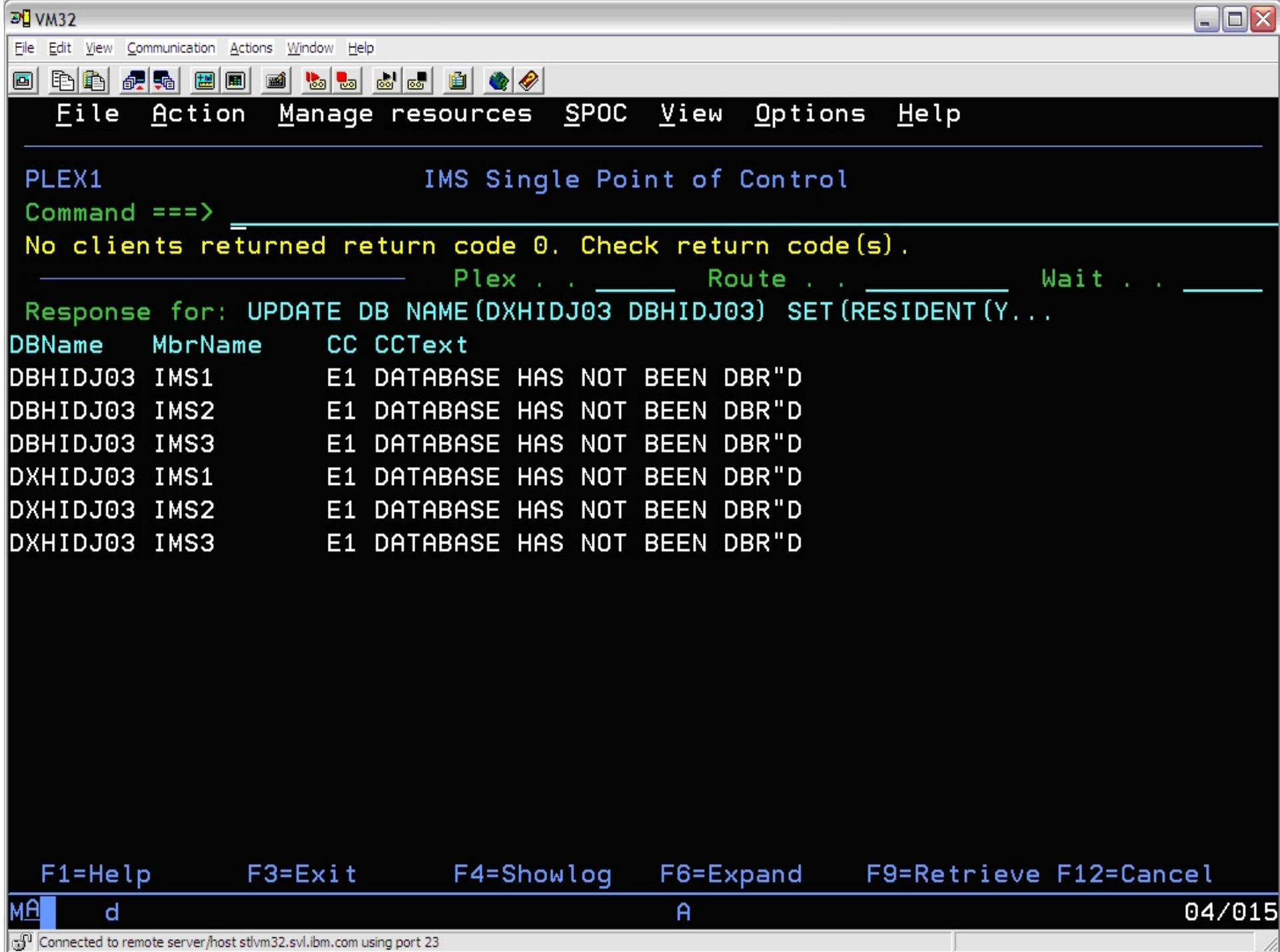
DBName	MbrName	CC
DBHIDJ03	IMS1	0
DBHIDJ03	IMS2	0
DBHIDJ03	IMS3	0
DXHIDJ03	IMS1	0
DXHIDJ03	IMS2	0
DXHIDJ03	IMS3	0

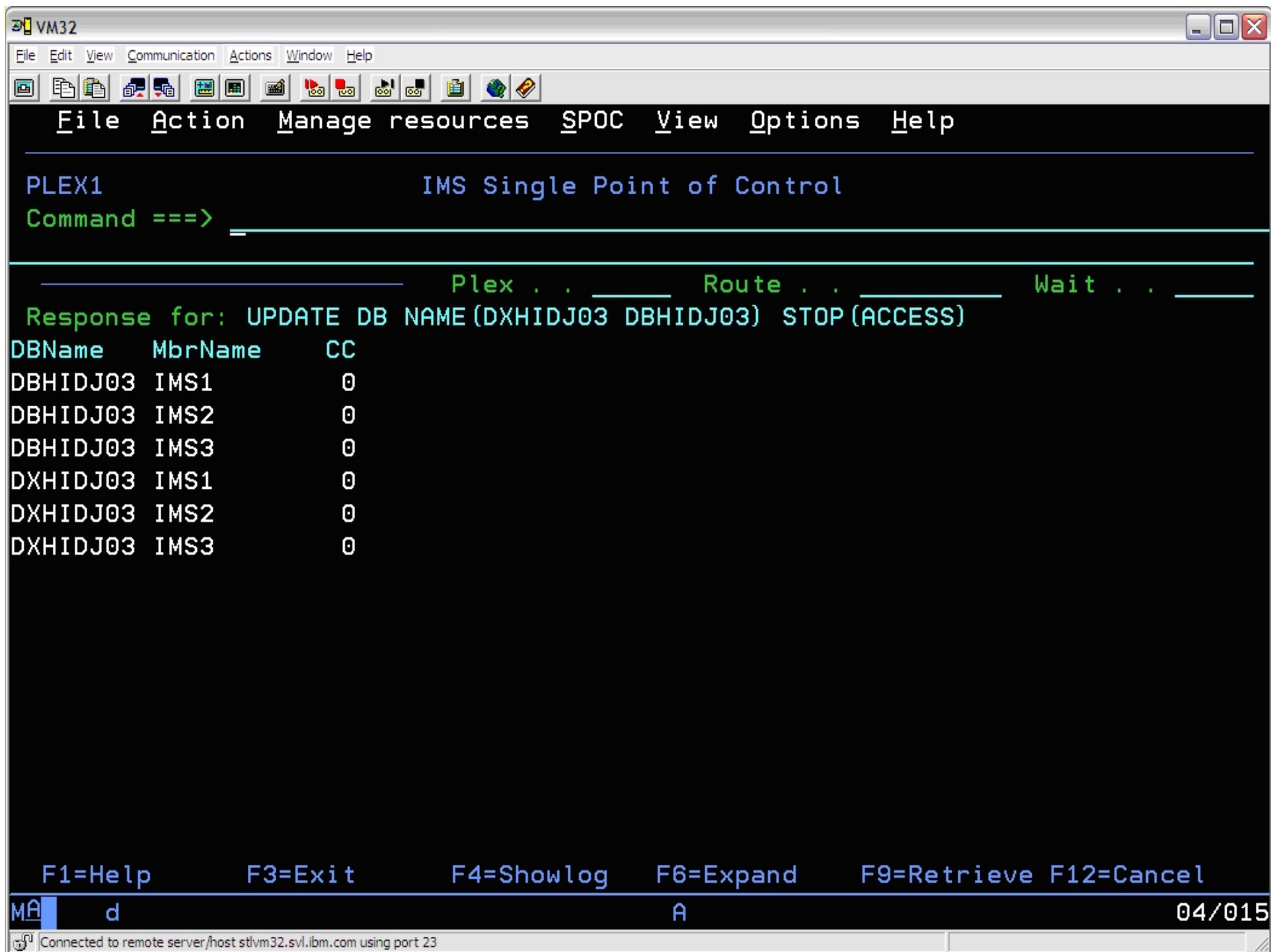
F1=Help F3=Exit F4=Showlog F6=Expand F9=Retrieve F12=Cancel

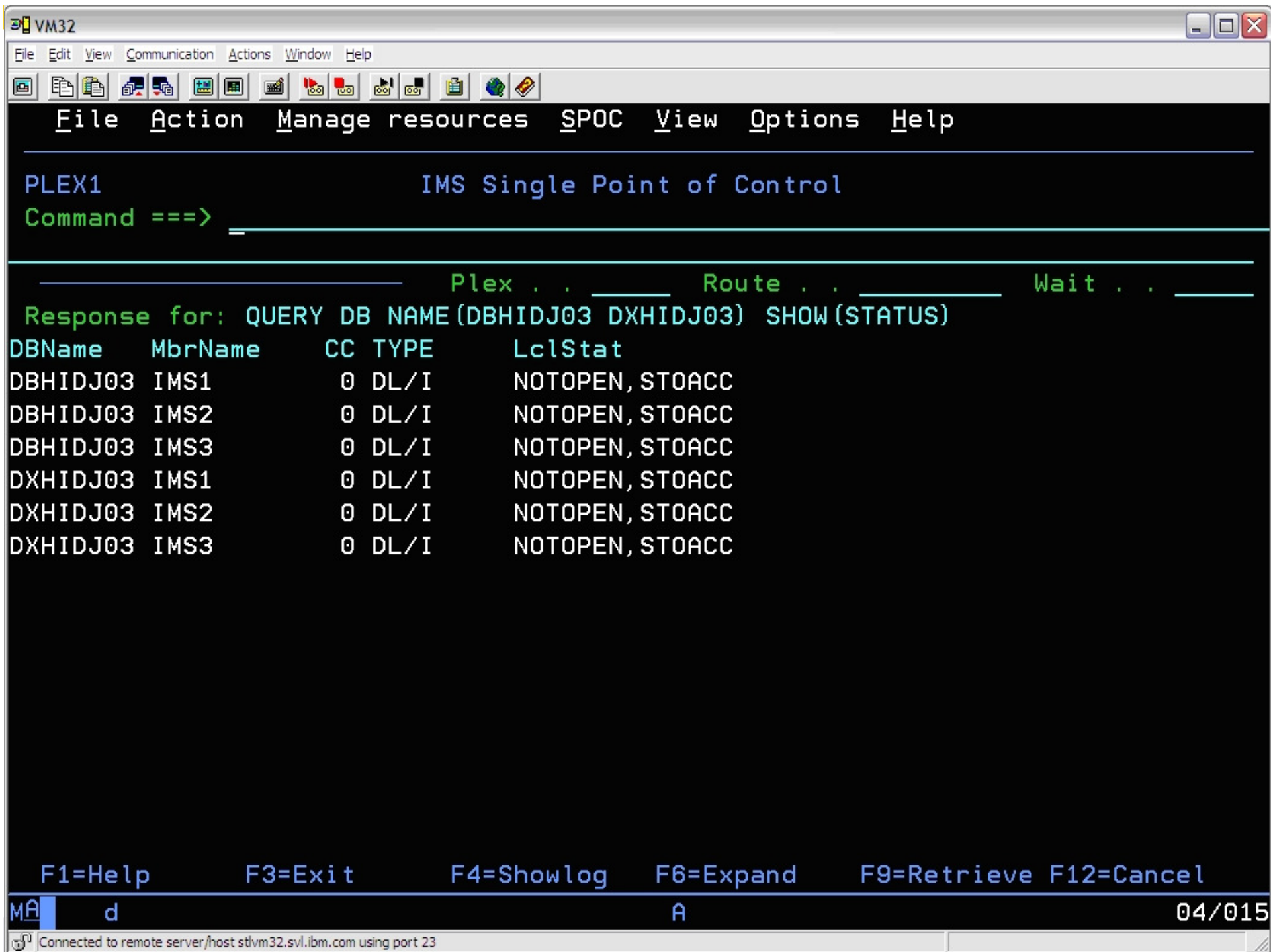
MA a A 04/015

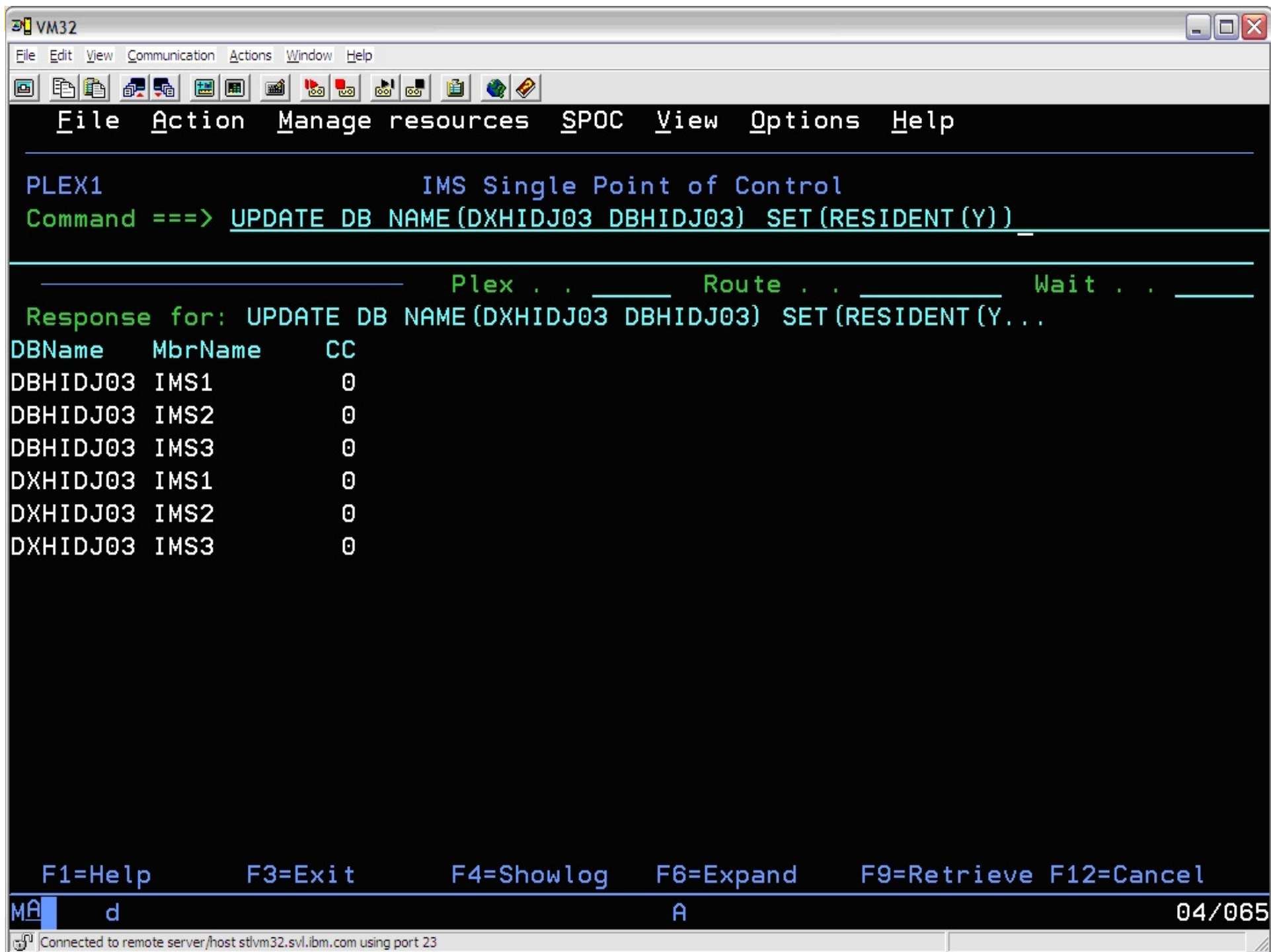
Connected to remote server/host stlvm32.svl.ibm.com using port 23













File Action Manage resources SPOC View Options Help

PLEX1

IMS Single Point of Control

Command ==> QUERY DB NAME(DBHIDJ03 DXHIDJ03) SHOW(ACCTYPE RESIDENT)

Plex . . . Route . . . Wait . . .

Response for: QUERY DB NAME(DBHIDJ03 DXHIDJ03) SHOW(ACCTYPE RE...

DBName	MbrName	CC	TYPE	LAcc	Rsdnt	LRsdnt
DBHIDJ03	IMS1	0	DL/I	EXCL	Y	N
DBHIDJ03	IMS2	0	DL/I	EXCL	Y	N
DBHIDJ03	IMS3	0	DL/I	EXCL	Y	N
DXHIDJ03	IMS1	0	DL/I	EXCL	Y	N
DXHIDJ03	IMS2	0	DL/I	EXCL	Y	N
DXHIDJ03	IMS3	0	DL/I	EXCL	Y	N

F1=Help

F3=Exit

F4=Showlog

F6=Expand

F9=Retrieve F12=Cancel

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04/015

Updating Transactions with Type-1 Commands Using MTO

```

18.46.13          66/DISPLAY TRAN ADDPART
18.46.13 JOB00166  IEE600I  REPLY TO 66 IS;/DISPLAY TRAN ADDPART
18.46.13 JOB00166  DFS000I      TRAN      CLS ENQCT   QCT   LCT   PLCT CP NP
LP SEGSZ SEGNO PARLM      RC      IMS1
18.46.13 JOB00166  DFS000I  ADDPART      4      5      0      2 65535 10  7
10      0      0  NONE      0      IMS1
18.46.13 JOB00166  DFS000I      PSBNAME: DFSSAM04   IMS1
18.46.13 JOB00166  DFS000I      *09092/184613*   IMS1
*18.46.13 JOB00166 *67 DFS996I *IMS READY*   IMS1

```

```

18.46.00          54/DISPLAY TRAN ADDPART
18.46.00 JOB00113  IEE600I  REPLY TO 54 IS;/DISPLAY TRAN ADDPART
18.46.00 JOB00113  DFS000I      TRAN      CLS ENQCT   QCT   LCT   PLCT CP NP
LP SEGSZ SEGNO PARLM      RC      IMS2
18.46.00 JOB00113  DFS000I  ADDPART      4      9      2      2 65535 10  7
10      0      0  NONE      0      IMS2
18.46.00 JOB00113  DFS000I      PSBNAME: DFSSAM04   IMS2
18.46.00 JOB00113  DFS000I      *09092/184600*   IMS2
*18.46.00 JOB00113 *55 DFS996I *IMS READY*   IMS2

```

```
18.46.13 JOB00166 *67 DFS996I *IMS READY*   IMS1
18.47.15          67/STOP TRAN ADDPART
18.47.15 JOB00166  IEE600I REPLY TO 67 IS;/STOP TRAN ADDPART
18.47.15 JOB00166  DFS058I 18:47:15 STOP COMMAND COMPLETED   IMS1
*18.47.15 JOB00166 *68 DFS996I *IMS READY*   IMS1
```

```
18.46.00 JOB00113 *55 DFS996I *IMS READY*   IMS2
18.47.38          55/STOP TRAN ADDPART
18.47.38 JOB00113  IEE600I REPLY TO 55 IS;/STOP TRAN ADDPART
18.47.38 JOB00113  DFS058I 18:47:38 STOP COMMAND COMPLETED   IMS2
*18.47.38 JOB00113 *56 DFS996I *IMS READY*   IMS2
```



```

18.48.28          68/DISPLAY TRAN ADDPART
18.48.28 JOB00166  IEE600I REPLY TO 68 IS;/DISPLAY TRAN ADDPART
18.48.28 JOB00166  DFS000I      TRAN      CLS ENQCT   QCT    LCT   PLCT CP NP
  LP SEGSZ SEGNO PARLM      RC      IMS1
18.48.28 JOB00166  DFS000I      ADDPART      4      5      0      2 65535 10  7
  10      0      0  NONE      0      IMS1
18.48.28 JOB00166  DFS000I          PSBNAME: DFSSAM04   IMS1
18.48.28 JOB00166  DFS000I          STATUS: STOP      IMS1
18.48.28 JOB00166  DFS000I          *09092/184828*     IMS1
*18.48.28 JOB00166 *69 DFS996I *IMS READY*   IMS1

```

```

18.48.48          56/DISPLAY TRAN ADDPART
18.48.48 JOB00113  IEE600I REPLY TO 56 IS;/DISPLAY TRAN ADDPART
18.48.48 JOB00113  DFS000I      TRAN      CLS ENQCT   QCT    LCT   PLCT CP NP
  LP SEGSZ SEGNO PARLM      RC      IMS2
18.48.48 JOB00113  DFS000I      ADDPART      4      9      2      2 65535 10  7
  10      0      0  NONE      0      IMS2
18.48.48 JOB00113  DFS000I          PSBNAME: DFSSAM04   IMS2
18.48.48 JOB00113  DFS000I          STATUS: STOP      IMS2
18.48.48 JOB00113  DFS000I          *09092/184848*     IMS2
*18.48.48 JOB00113 *73 DFS996I *IMS READY*   IMS2

```

```
18.48.28 JOB00166 *69 DFS996I *IMS READY*  IMS1
18.49.29          69/START TRAN ADDPART
18.49.29 JOB00166  IEE600I REPLY TO 69 IS;/START TRAN ADDPART
18.49.29 JOB00166  DFS058I 18:49:29 START COMMAND COMPLETED  IMS1
*18.49.29 JOB00166 *70 DFS996I *IMS READY*  IMS1
```

```
18.48.48 JOB00113 *73 DFS996I *IMS READY*  IMS2
18.49.47          73/START TRAN ADDPART
18.49.47 JOB00113  IEE600I REPLY TO 73 IS;/START TRAN ADDPART
18.49.47 JOB00113  DFS058I 18:49:47 START COMMAND COMPLETED  IMS2
*18.49.47 JOB00113 *74 DFS996I *IMS READY*  IMS2
```

```

18.50.29          70/DISPLAY TRAN ADDPART
18.50.29 JOB00166 IEE600I REPLY TO 70 IS;/DISPLAY TRAN ADDPART
18.50.29 JOB00166 DFS000I      TRAN      CLS ENQCT  QCT   LCT  PLCT CP NP
  LP SEGSZ SEGN0 PARLM    RC    IMS1
18.50.29 JOB00166 DFS000I      ADDPART    4    5    0    2 65535 10  7
  10    0    0  NONE    0    IMS1
18.50.29 JOB00166 DFS000I          PSBNAME: DFSSAM04    IMS1
18.50.29 JOB00166 DFS000I      *09092/185029*    IMS1
*18.50.29 JOB00166 *71 DFS996I *IMS READY*    IMS1

```

```

18.50.48          74/DISPLAY TRAN ADDPART
18.50.48 JOB00113 IEE600I REPLY TO 74 IS;/DISPLAY TRAN ADDPART
18.50.48 JOB00113 DFS000I      TRAN      CLS ENQCT  QCT   LCT  PLCT CP NP
  LP SEGSZ SEGN0 PARLM    RC    IMS2
18.50.48 JOB00113 DFS000I      ADDPART    4    9    2    2 65535 10  7
  10    0    0  NONE    0    IMS2
18.50.48 JOB00113 DFS000I          PSBNAME: DFSSAM04    IMS2
18.50.48 JOB00113 DFS000I      *09092/185048*    IMS2
*18.50.48 JOB00113 *75 DFS996I *IMS READY*    IMS2

```


Updating Transactions with Type-2 Commands Using TSO SPOC

