

IBM Education Assistance for z/OS V2R3

Removal of Console's Shared Mode

Agenda

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Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
 - None

Session Objectives

- Describe the removal of Shared Mode
 - **Shared Mode**
 - The way Consoles worked since the introduction of the sysplex
 - **Distributed Mode**
 - z/OS V1.R10, a new mode to address performance concerns
 - z/OS V1.R13, the default mode. Statement of direction (SOD) to remove shared mode in the future
 - z/OS V2.R1, SOD update: Shared mode removed in the release after the next release
 - z/OS V2.R2, SOD update: This is the last release shared mode is supported
 - z/OS V2.R3, shared mode removed

Overview

- **Problem Statement / Need Addressed / User Stories**
 - Shared mode has performance concerns with large sysplexes
 - Support for both modes is costly
 - Fixes implemented in both modes
 - Testing required in both modes
 - Enhancements have only been made in distributed mode
 - SET CON=
 - SETCON DELETE
- **Solution**
 - Remove support of shared mode
- **Benefit / Value**
 - Increased simplicity for developing and testing changes
 - Distributed mode provides better reliability and performance to our customers

Usage & Invocation (1 of 4)

- Changes to z/OS operator commands:

Command Parameters	Change
SETCON MODE	Removed
DISPLAY OPDATA,MODE	Removed
D C,SHAREDMODE	Removed

- Health check CNZ_Console_Operating_Mode check deleted
- New message:

CNZ0014I *text* IS OBSOLETE

Usage & Invocation (2 of 4)

Deleted messages:

CNZ9000I MIGRATION *dir* TO CONSOLE SERVICES *mode*

CNZ9001I CONSOLE SERVICES MIGRATION STATUS:

CNZ9002I MIGRATION TO CONSOLE SERVICES *mode* MODE REJECTED

CNZ9005D CONSOLE SERVICES MIGRATION INITIALIZATION FAILURE.
REPLY GO TO CONTINUE WITHOUT MIGRATION CAPABILITY OR RE-IPL.

CNZ9006I hh.mm.ss DISPLAY O,MODE

CNZ9007I CONSOLE SERVICES MODE SPECIFICATION IGNORED. FORCED TO
mode MODE

CNZ9008A MIGRATING BACK TO CONSOLE SERVICES SHARED MODE
WILL CAUSE THE LOSS OF ACTIVE CONSOLES.

CNZ9009D CONTINUE WITH MIGRATION? REPLY N TO ABORT OR Y TO
CONTINUE

Usage & Invocation (3 of 4)

Deleted messages:

CNZ9012I MIGRATING BACK TO CONSOLE SERVICES SHARED MODE WILL CAUSE
THE LOSS OF THE FOLLOWING INACTIVE MCS/SMCS/HMCS/SUBSYSTEM CONSOLES:

CNZ9013I CONSOLE SERVICES RUNNING IN *mode* MODE.

CNZ0009I CONSOLE SERVICES MIGRATION FAILURE.

MODULE: xxxxxxxx SERVICE: xxxxxxxxxxxxxx RC: xxxxxxxx RS: xxxxxxxx

DIAG1: xxxxxxxx DIAG2: xxxxxxxx DIAG3: xxxxxxxx

CNZHF0014E Console Services is operating in Shared Mode instead of
the preferred Distributed Mode.

Usage & Invocation (4 of 4)

Changed messages:

- CNZ0005I no longer has the following reasons:
 - NOT VALID IN SHARED MODE
 - CONSOLE SERVICES MIGRATION IN PROGRESS
- CNZ0006W has new reason:
 - SYSTEM CAN ONLY JOIN DISTRIBUTED MODE SYSPLEX
- CNZ0008I no longer has the following reason:
 - FAILED DURING CONSOLE SERVICES MIGRATION
- IEA195I ccc description updated
 - ccc CONSOLES DEFINED. STATEMENT IGNORED.

Migration & Coexistence Considerations

No coexistence APAR is required

Existing sysplex must be migrated to distributed mode before attempting to IPL a z/OS V2R3 system into the sysplex.

Specification of CON=(xx,SHARED) will not prevent the IPL from continuing but distributed mode will be used

Installation

Today, system parameter CON=(xx,SHARED) or CON=(xx,DISTRIBUTED) may be specified to request mode.

With z/OS V2R3, the SHARED/DISTRIBUTED parameter is ignored.

- Message is issued:

- CNZ0014I CON=*parameter* PARAMETER IS OBSOLETE

A z/OS V2R3 system attempting to join a shared mode sysplex will issue a message and load a wait state:

```
CNZ0006W SYSTEM CAN ONLY JOIN DISTRIBUTED MODE SYSPLEX. RE-IPL.  
WAIT STATE: 087-31  
MODULE: IEAVN703 SERVICE: N/A          RC:xx RS:xx  
DIAG1: 0 DIAG2: 0 DIAG3: 0
```

Session Summary

- A z/OS V2R3 system attempting to join a console shared mode sysplex will issue a message and load a wait state.
- With z/OS V2R3, the SHARED/DISTRIBUTED option of the CON= parameter is ignored.
- Distributed mode provides better console reliability and performance

Appendix (1 of 2)

- *z/OS V2R3 MVS Initialization and Tuning Reference (SA23-1380)*
 - Updates for removing shared mode
 - CON=(xx) updates
- *z/OS V2R3 MVS System Commands (SA38-0666)*
 - Delete the expired commands
- *z/OS V2R3 MVS Planning: Operations (SA23-1390)*
 - Updates for removing shared mode
- *z/OS V2R3 MVS Diagnosis: Reference (GA32-0904)*
 - IPCS COMCHECK MCSINFO and UCM
- *z/OS V2R3 MVS System Messages Vol 4(CBO-DMO) (SA38-0671)*
 - Update/Add/Delete messages

Appendix (2 of 2)

- *z/OS V2R3 MVS System Codes (SA38-0665)*
 - Update 087-31 description
 - Remove 087-33
- *z/OS V2R3 IBM Health Checker for z/OS User's Guide (SC23-6843)*
 - Delete the CNZ_Console_Operating_Mode check
- *z/OS Migration (G32-0889)*
 - Distributed mode is required to IPL a V2R3 system into a sysplex