

IBM Education Assistance for z/OS V2R1

Item: Dynamically Add and Delete MCS Consoles

Element/Component: BCP/Consoles



Agenda

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Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.



Presentation Objectives

- Ability to add an MCS-type^{*} console to the configuration without the need for an IPL.
- Ability to delete a console via an operator command interface.

^{*} MCS-type consoles consist of MCS, HMCS, SMCS and subsystem



Overview (1 of 2)

- Problem Statement / Need Addressed
 - *Currently, an IPL is required to define a new console and a sysplex-wide IPL is required to delete a console (excepting the use of SAMPLIB utility IEARELCN). It should be possible to add and delete consoles without an outage of any kind using standard operator commands.*



Overview (2 of 2)

- Solution
 - Introduce 2 new commands
 - SET CON=xx will read the specified CONSOLxx parmlib member and process the operational settings as well as create new consoles.
 - SETCON DELETE,CN=nnnnnnnnn which will delete the specified console from the sysplex.
 - The commands will only run in console support mode of Distributed.
- Benefit / Value
 - System Availability
 - Ease-of-use



Usage & Invocation (1 of 4)

```
{SET}    [CON=xx]  
{ T }
```

- The SET CON=xx command will allow an installation to add additional MCS-type console definitions to their environment without an IPL. It will also provide the opportunity to change other operational settings used by the consoles component.
- After execution of the SET CON=xx command any new consoles will be defined, and console operational settings will be altered.



Usage & Invocation (2 of 4)

CONSOLxx is a member of Parmlib that can define a console configuration to meet the particular needs of the installation. It is normally only read at IPL time, and consists of 4 statement types.

- The CONSOLE statement defines the attributes of each MCS, HMCS, SMCS, subsystem and system console
- The HARDCOPY statement specifies the hardcopy medium as well as the characteristics of the hardcopy message set
- The INIT and DEFAULT statements specify values for many of the parameters that govern consoles, messages and commands



Usage & Invocation (3 of 4)

The SET CON= command allows for a post-IPL processing of a CONSOLxx parmlib member.

Differences when running the command versus IPL execution

- The absence of a keyword will not cause the default to be implemented. Only specified settings will be processed.
- The system console (SYSCONS) is created during IPL whether one is requested or not, and cannot be dynamically added via the SET CON=xx command.

Additional benefits of SET CON= processing

- Some operational settings had no method for alteration. With this support these can now be changed
 - DEFAULT statement: HOLDMODE and SYNCHDEST
 - HARDCOPY statement: HCFORMAT
 - INIT statement: CMDDELIM and the CTRACE default



Usage & Invocation (4 of 4)

SETCON [DELETE,CN=xxxxxxxxx]

- The SETCON DELETE,CN=xxxxxxxxx command will allow an installation to delete a single, inactive console from the sysplex and remove all existing definition data pertaining to it.
- Applies to MCS, HMCS, SMCS, Subsystem, as well as, EMCS consoles.
- The command can be used in place of the samplib utilities IEARELCN and IEARELEC.



Migration & Coexistence Considerations

- There are no toleration or coexistence APARs/PTFs required for this support. However, there are some implications to be aware of
 - Any SMCS or subsystem console defined dynamically on a z/OS V2R1 system via this functionality will be available to be used on any system in the sysplex
 - Systems with this functionality will be able to delete inactive consoles regardless of which system defined them. A z/OS V2R1 system will be able to delete a console defined on a lower level system.



Installation

- If necessary, new CONSOLxx Parmlib members may be created to dynamically add consoles.



Presentation Summary

- The SET CON=xx command can be used to add an MCS-type console to the configuration.
- The SETCON DELETE,CN, command can be used to delete a console via an operator command interface.



Appendix

- *z/OS V2R1 MVS Initialization and Tuning Reference (SA23-1380)*
–CONSOLxx

- *z/OS V2R1 MVS System Commands (SA38-0666)*
–SET CON, SETCON

- *z/OS V2R1 MVS Planning: Operations (SA23-1390)*

