

IBM® z/VM Centralized Service Management SERVMGR COMMAND SYNTAX

z/VM Centralized Service Management (z/VM CSM) will provide functionality for managing distinct levels of service for a select group of z/VM systems. A given system will be designated as a ***Principal*** system. This system will use SFS to manage service levels for a set of defined ***Managed*** systems, regardless of geographic location.

PLANNING AND SETUP:

This Quick Guide will introduce the new SERVMGR command syntax. Network configuration and SFS filepool administration must be setup prior to z/VM CSM initialization and is not covered in this overview. Instructions can be found in the TCP/IP Planning and Customization book. This overview will introduce the syntax of the new SERVMGR command. Prior to setting up a z/VM CSM system you must read the z/VM Service Guide.

```

>>--SERVMGR--INITialize--vrm----->>
>>--SERVMGR--SYStem--.-ADD--vrm--sysname--srv/vl---| ADD Operands |---| FTP Options (2)|----->>
|
| ADD Operands:
| |---NONESM-----|-----| |
| |---ESM-----|   '--HOSTname hostname--' | '--COMMTYPE--FTP-----|
|                                     |'---'--COMMtype--FTP-----'|
|                                     |--LOCAL--|
|
| -DELeTe--vrm--sysname-----|
|
| -MODIfy--vrm--sysname-.-----.-NONESM-----| FTP Options
|                                     | |---ESM---| (1) |
|                                     | |'new_sysname-'| |'-HOSTname hostname--'|
|
|                                     v-----
|                                     | v----- |
|                                     |'---'--nickname-----'|
|
|                                     v-----
| -PUT2PROD--vrm--.- sysname--'|
|                                     |'---'--nickname-----'|
|
|                                     v-----
| -Query--vrm--.- sysname--'|
|                                     |'nickname-'| | '--STATUS--|
|                                     |'---ALL-----'| |'---(---+STATus---'|
|                                     |'---*-----'| |
|                                     |                                     |
|                                     |                                     |
|                                     |'---DETAILs-----'|
|                                     |'---VERIFY--'|
|
| -SERVcheck--vrm--sysname-----|

```

- NOTES:**
1. The HOSTNAME operand is optional when supplied with a SYSTEM MODIFY command.
 2. FTP options are valid with only the SYSTEM ADD and SYSTEM MODIFY commands.

SERVMGR Operands

- **INITialize** Sub-function to create the initial structures for CSM. This includes creating initial tables and creating and populating vrm-level Shared File System directories.
- **SYStem** Sub-function that performs functions related to maintaining a Centralized Service Management system group. This sub-function adds information about a selected vrm-level system to the CSM System Status Table of a pertinent Principal system.
- *vrm* Represents the specific system, version, and release level information that CSM is to reference, in relation to a given command. The initial release vrm is: 720
- **ADD** Indicates that a new system_name entry is to be created in the CSM group.
- **NONESM** Indicates the service bin will not incorporate ESM (External Security Manager) controls and support
- **ESM** Indicates the service bin is to incorporate ESM (External Security Manager) controls and support
- **HOSTname** hostname Identifies a TCP/IP fully qualified internet host name or TCP/IP IP address (IPv4 dotted-decimal or IPv6 hex-colon format)
- **COMMtype** comm_type Designates the type of communication protocol to be used for host-to-host data transfer and communication. FTP is default or LOCAL.
- **DELETE** Indicates that the specified system_name is to be removed from the control of CSM.
- **MODIfy** Indicates that changes are to be made to the FTP parameters for system_name, or, that system_name is to be renamed to new_system_name.
- **PUT2PROD** Indicates that the VMSES/E PUT2PROD command is to be run on the system_name or nickname.
- **Query** Indicates that a SYSTEM QUERY function is to be performed against the CSM System Status Table, to provide information about the systems defined.
- **SERVcheck** Retrieves component bitmaps and local modification information from the designated Managed system and compares these with those of the CSM service level defined for this system.

```

>>--SERVMGR--SRVlvl---.-ADD--vrm--srvlvl--- BASEdon srvlvl-----,NONESM--,-,-----><
|                                     '---ESM-----' -----' -DESC description---'
|-----|
| -DELeTe--vrm--srvlvl-----|
|-----|
| -LOCALMOD--vrm--srvlvl--LOCALMOD_cmdparms-----|
|-----|
| -SERVice --vrm--srvlvl--SERVICE_cmdparms-----|
|                                     '---(-,-----,---'|
|                                     '---REStArt---'|
|-----|
| -PACKage --vrm--srvlvl-----|
|                                     '---(-,-----,---'|
|                                     '---REStArt---'|
|-----|
|                                     v-----,
| -SEND --vrm--srvlvl---,---'sysname---'-----|
|                                     | v-----, | | ,---TEST-----,
|                                     |---'nickname---'---'| |---(-,-----,---'|
|                                     '---STABLE---,---'REStArt---'|
|                                     '---TEST-----'|
|-----|
| -SETLOCK--vrm--srvlvl---.-ON-----|
|                                     '---OFF---'|
|-----|
|                                     v-----'
| -Query--vrm---,---'srvlvl---'-----|
|                                     |---ALL-----| |---(-,-----,---'|
|                                     '---DETAils---'|
|                                     '---SYStems---'|
|-----|
| -VMFSEtup--vrm--srvlvl--compname-----|
|-----|

```

FTP Options (2)

```

|---(-,-----,---|-----><
|                                     .---4535-----, |
|                                     '---PORT---'---port_number---'|
|-----|
>-----|----->
|                                     .---ANY---, | '---NOSECure---' 'SECure---' 'Timeout-value---' --TRACe---'
|                                     '---ADDRtype---+---IPV4+---'
|                                     --IPV6---'
|-----|
>-----|-----><
|                                     '---DATAFile---fname---'|
|-----|

```

SERVMGR Operands

- **SRVlvl** Sub-function to manage unique service level environments that reside in CSM Service Level Table directory structure (BINs), and to provide the Principal system control over all defined service levels available.
- **srvlvl** A 1-16-character identifier for a CSM service BIN.
- **NONESM** Indicates the service bin will not incorporate ESM (External Security Manager) controls and support
- **ESM** Indicates the service bin is to incorporate ESM (External Security Manager) controls and support
- **ADD** Adds a service level BIN to the CSM Service Level Table & creates the SFS structure for the new *srvlvl*.
- **BASEdon** Specifies the existing service BIN name from which the new service_level BIN is initialized.
- **DESC** A free-form, text description for a service BIN being added.
- **DELeTe** Removes a service level BIN from the CSM Service Level Table and deletes the associated directories in the BIN.
- **LOCALMOD** Creates/reworks local modifications for a part maintained in the specified CSM service BIN.
- **LOCALMOD_cmdparms** Are any valid VMSES/E LOCALMOD command operands and options
- **SERVICE** Receives and builds service for a service level BIN in the CSM Service Level Table, using the VMSES/E SERVICE command.
- **PACKage** Indicates that serviced components in the *srvlvl* BIN are to be packaged for subsequent transport to one or more Managed systems.
- **SEND** Indicates that the CSM service package for the named *srvlvl* BIN is to be transported to the specified *system_name* or nickname.
- **TEST** Indicates that the service level being transported has testing status.
- **STABLE** Indicates the service level being transported has stabilized status.
- **REStArt** Signifies that SERVMGR processing is to be resumed, after a previous error condition was encountered (which has been corrected).
- **SETLOCK** Establishes an update activity lock for the specified service level BIN, to prevent or allow modification of its content
- **Query** Processes the CSM Service Level Table and returns information about either a specific service level or about all service levels defined in the CSM Service Level Table.
- **DETAils** Augments the previously described response with PTF and local modification information that pertains to a given service level.
- **SYStems** Reports systems where the specified service level is in use.
- **VMFSEtup** Invokes the VMSES/E VMFSETUP command, to establish a CMS minidisk and SFS directory access order for the specified component, using resources that pertain to the given service level BIN.

FTP Options (2)

- **PORT** port_number TCP/IP port number at which a system Dedicated FTP Server is configured to listen. The default listen port for this server is 4535.
- **ADDRtype** address_type Address type to use
- **ANY** Any target host address allowed.
- **IPV4** Target host address must be in AF_INET (IPv4) address family.
- **IPV6** Target host address must be in AF_INET6 (IPv6) address family.
- **NOSECure** Causes the FTP client not to attempt to secure data and control connections using TLS.
- **SECure** Causes the FTP client to attempt to secure data and control connection using TLS.
- **Timeout value** Specifies the number of seconds to be used for various FTP timing parameters.
- **TRACe** Starts the generation of tracing output. TRACE is used to assist in debugging. Trace data is written to the console.
- **DATAFile fname** File name of Managed host-specific FTP DATA file instance (named sysname FTPDATA — the file type of this file must be: FTPDATA).

