

This presentation is an overview of serviceability enhancements to Communications Server for z/OS V1R10.



This presentation includes Healthchecker, Netstat, and FTP data set contention enhancements for CS z/OS V1R10.



Several health checks are added in V1R10.

One is a check that the BPXPRMxx INADDRANYPORT and INADDRANYCOUNT specifications match correct TCP/IP PORT/PORTRANGE definitions. These ports must be reserved to OMVS. If not, an abend EC6 occurs when Common INET tries to use one of them.

Another is a check for future migration issues involving servers that will no longer be included in the z/OS Communications Server distribution after V1R10. Four servers are included in the warning. They are the Boot Information Negotiation Layer (BINL), the Berkeley Internet Name Domain 4.9.3 (BIND 4.9.3) DNS, the Dynamic Host Configuration Protocol (DHCP) and the Network Database (NDB) servers.

It is important that users exploiting these functions plan for their removal now!



The default maximum number of Netstat records remains 100. This can now be changed with the newGLOBALCONFIG MAXRECS statement. Maximum can either be "\*", indicating that there is no maximum), or any value between one and 65535.

Also, if the number of lines displayed as the result of a D TCPIP,,NETSTAT console command exceeds 65535 before the MAXREC value is reached, an error message is issued. In previous releases an abend D23 is issued for this condition.



z/OS FTP client and server obviously need to obey the usual MVS data set sharing rules for members of PDS and PDSE data sets based on ISPF enqueue/dequeue conventions. When FTP cannot access an MVS data set because another job already is holding it, FTP fails the request.

With this new function, you can configure maximum wait time in minutes. Also, new messages inform the FTP client who is using the dataset and how many retries are remaining before failure. This gives the user a chance to resolve the conflict before the wait time expires, allowing the FTP attempt to succeed without having to manually retry.



z/OS CS V1R9 added support for use of system symbolics in the OMPROUTE configuration file. z/OS CS V1R10 now adds support for use of INCLUDE statements in the OMPROUTE configuration file. This makes it easier to share common OMPROUTE definitions within a Sysplex.

The TCP/IP initialization message will now tell you which local hostname is this stack using. This is the name that will be returned on a gethostname() call. It will also tell you from which location (file/data set) the stack picked up the hostname. This helps with problem determination.

There have been many IPCS enhancements, including: ability to issuing VTAM display commands against a VTAM dump. Also TCPIPCS commands are enhanced to accept port and IP address filters



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Overview : Serviceability

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