



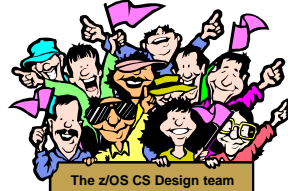
IBM eServer™

z/OS® V1R8 Communications Server Overview

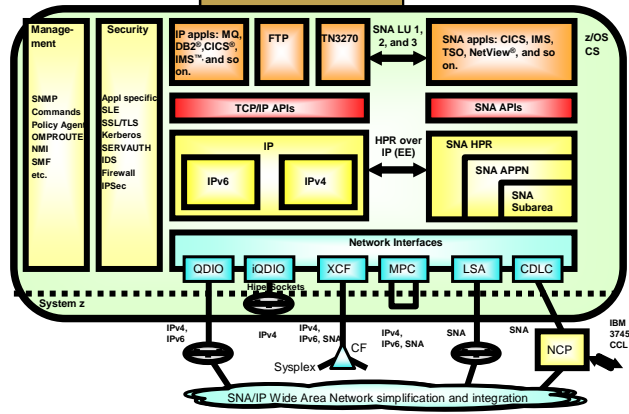
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Communications Server on z/OS - What drives the selection of functions being added to CS z/OS?



The z/OS CS Design team



- **Satisfy critical customer requirements**
 - Security, availability, reliability, scalability, capability and performance
 - Sysplex, EE, FTP, TN3270E, IDS, Policy, ...
- **Position z/OS for emerging technology requirements:**
 - Full IPv6 support through staged delivery of the next generation IP network for z/OS
- **Provide networking security infrastructure to meet customers' emerging security compliance requirements**
 - Integrated IP Security
- **Optimize the application and middleware environment on z/OS**
 - Application Transparent TLS, Sysplex Load Balancing Advisor, CICS Socket Optimization, Enterprise Extender, ...
- **Exploit and add value to System z technology innovations**
 - High speed networking for zSeries®
 - Encryption accelerators and technologies
- **Help reducing cost**
 - Network management
 - Autonomics

CS z/OS V1R8 overview - part 1 of 2

➤ **Sysplex support - multi-tier application performance and networking Sysplex topology flexibility**

- Automated DNS registration of application-specific hostnames
- XCF group name for VTAM® and TCP/IP (or network Sysplex partitioning)
- Enhanced Netstat VIPADyn/-v display
- New messages for DVIPA activation/deactivation
- Netstat VDPT display - include current number of active connections
- Serialization of DVIPA (BIND/IOCTL) adds and deletes
- Dynamic detection and recovery for DVIPA unreachability
- Optimize Sysplex Distributor intra-sysplex load balancing
- Bypass distributing host for client to server Sysplex Distributor traffic when client and assigned server are on same Sysplex member host
- Source IP address selection based on destination IP address

➤ **Network security - IDS useability, enhancing IPSec**

- Support IDS policy in flat file format
- Support AES cryptographic algorithm for IPSec
- Complete NAT traversal for IPSec protected traffic - NAT port traversal (NAPT)

➤ **SNA and EE - improved operations**

- EE connection network reachability awareness enhancements
- Remove AnyNet® functions from Communications Server
- Retire multiple SAP support for EE parallel connections
- EE connectivity test command

➤ **IPv6 support - extending integrated IP Security to IPv6 workloads**

- IPv6 IPSec support

CS z/OS V1R8 overview - part 2 of 2

➤ **FTP server and client - client usability and management**

- FTP client API in REXX
- FTP SMF record enhancements
- FTP UNICODE without EBCDIC translation

➤ **TN3270 server - management enhancements**

- TN3270 performance MIB data on TN3270 SMF record
- TN3270 performance MIB data via the NMI callable management interface
- Miscellaneous TN3270 Enhancements

➤ **Other TCP/IP changes**

- Remove Assortedparms and Keepaliveoptions statements from TCP/IP profile configuration
- Provide relief for constrained ECSA storage
- Pre-Router enhancements

➤ **Network management**

- Netstat enhancements
- Add the ability to drop a list of socket endpoints using the NMI callable management interface
- NMI enhancements for EE
- Add connection termination reason code to TCP connection termination SMF record
- Remove support for Version 1 networking SLA MIB
- Communications Server support for Health Checker
- SNMP Enhancements
- Linux Message Integration

Statements of Direction

Statements of direction

- **z/OS V1R6 Communications Server and subsequent releases include support for a standalone TN3270 Server. This standalone TN3270 server provides increased flexibility, improved reliability, and simplified problem diagnosis as compared to the in-stack version of the TN3270 Server. z/OS V1.8 is planned to be the last release of z/OS Communications Server which will support the in-stack version of the TN3270 Server. After z/OS V1.8, this capability will be removed from the product. In preparation for that change, you should consider implementing the standalone TN3270 Server. For more information see <http://www.ibm.com/software/network/commserver/zos/>**
- **The APPC Application Suite is a set of common applications originally designed to enhance the value of SNA networks for end users. Since more full-featured alternative applications exist in modern integrated SNA/IP networks, z/OS V1.8 is planned to be the last release of z/OS Communications Server which will include the APPC Application Suite. After z/OS V1.8 the APPC Application Suite will no longer be shipped with the product, and will not be supported. However, note that APPC itself remains an integral part of z/OS Communications Server's SNA functions, and there are no plans to remove APPC from z/OS. For more information see <http://www.ibm.com/software/network/commserver/zos/>**

For more information....



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