



IBM eServer™

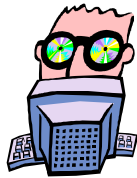
z/OS® V1R8 Communications Server Overview - Security

@business on demand software

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Network security - IDS useability,
enhancing IPSec, removal of
Firewall Technologies

IBM Configuration Assistant for z/OS Communications Server



In z/OS V1R8 the Policy Agent configuration tools are combined into one tool to manage policies for:

- AT-TLS
- IPSec and IP filtering
- IDS
- QoS

Common approach for all policy types:

- Master copy stored in binary file format (on workstation or file server)
- Text-based configuration files to be parsed by Policy Agent are created and transferred to z/OS

Note: IDS policies may now be stored in a text file, just as the other policy types. There is no requirement for LDAP.

Security Standards Update

➤ **AES - Advanced Encryption Standard**

- AES is an official U.S. Government standard. The Secretary of Commerce approved the adoption of the AES as an official government standard, effective May 26, 2002
 - Federal Information Processing Standard
 - FIPS publication 197

- AES is stronger than the Data Encryption Standard (DES) and therefore should be a popular standard both inside and outside the United States.

- AES is a bulk encryption algorithm
 - Suitable for TLS and IPSec
 - More secure than DES (Data Encryption Standard)

➤ **Supported by System SSL element of z/OS since z/OS V1R4**

➤ **Support for use of AES was added to SSL-enabled CS components (TN3270, FTP, and Sendmail) and to Application Transparent TLS in z/OS V1R7**

➤ **z/OS V1R8 adds support of AES for IPSec workload**

z/OS IPSec and VPN Support

- **New in z/OS V1R7, complete IPSec, filtering, and IKE solution part of z/OS Communications Server**
 - Alternative to Firewall Technologies
- z/OS Communications Server IPSec features
 - Simplified configuration, infrastructure, administrative controls
 - Improved serviceability, messages
 - Base for enhancements - NAT traversal, IPv6, etc
- **Starting in z/OS V1R8, Firewall Technologies is no longer available**
- **Announced Feb 15th, 2005**
 - **z/OS V1.7 is the last z/OS release to include the Firewall Technologies component of the Integrated Security Services element.**
 - **Many Firewall Technologies functions have been stabilized for some time and can be replaced using comparable or better functions provided by or planned for Communications Server, notably,**
 - IPSec
 - IP packet filtering
 - In addition, a functionally rich downloadable tool is planned to replace the IP Security and IP Filtering configuration GUI support.
 - **The following functions will be removed without replacement:**
 - FTP Proxy services
 - Socks V4 services
 - Network Address Translation (NAT)
 - RealAudio support

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IBM z/OS

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