

IBM @server zSeries Sales resources

For zSeries Security elements, visit
ibm.com/servers/eserver/zseries/security

For Common Criteria, visit
<http://niap.nist.gov/cc-scheme/>

For IBM @server products, visit
ibm.com/servers

For IBM DB2 products, visit
ibm.com/software/db2

Contacts

For more information on Multilevel Security with z/OS, contact your local IBM sales team or visit our zSeries Security Web site at:
ibm.com/servers/eserver/zseries/security/mls.html



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IBM @server zSeries



Multilevel Security with z/OS



What is multilevel security?

Multilevel security helps address government requirements for highly secure data that can be shared between agencies. New security features in DB2® V8 and z/OS® V1.5 software can enable customers to have a highly secure single repository of data designed to be accessed by different agencies and by people with different need-to-know authorities. This access is designed to be managed at the row level in DB2.

A multilevel security system has two primary goals. The controls are intended to prevent:

- *Unauthorized individuals from accessing information at a higher classification than their authorization.*
- *Individuals from declassifying information.*

Multilevel security can allow customers more-stringent access control to resources than is provided by user permissions. In z/OS V1.5, multilevel security extends the labeled security protection of z/OS to include TCP/IP and UNIX® System Services, and provide enhancements to Security Server, JES2, System Display and Search Facility (SDSF) and others.



The value of multilevel security on servers

Customers who are looking to improve the efficiency of their IT operations and, at the same time, provide a security-rich environment for sensitive information could benefit from the consolidation opportunity that exists with this offering.

They may benefit from:

- *Fast access to merged interagency data*
- *Easy-to-manage multiple security classifications*
- *Reduction of the need for multiple databases*

Customers can leverage IBM @server® zSeries® mainframe scalability, availability and manageability with features such as:

- *IBM Parallel Sysplex® technology*
- *System Managed Storage*
- *Workload Manager and Intelligent Resource Director*

Customers can leverage zSeries security capabilities by using:

- *Certified logical partitions*
- *zSeries Cryptography for Clear Key and Secure Key*
- *z/OS Security Server, including Resource Access Control Facility (RACF®)*

Not just for governments

While multilevel security began as a Federal government requirement, this new technology has applications elsewhere as well, as security controls become more critical in the on demand, virtual environments that are emerging. zSeries multilevel security can provide a more flexible and cost-effective option for

on demand hosting because of this security feature of separation of data. The ability to isolate data within the database may allow banks to host other banks, and distributors to host other distributors, sharing the same assets, procedures and skills.

Certification planned

Based on this Multilevel Security technology, z/OS 1.6 with the RACF for z/OS optional feature is currently in evaluation for Common Criteria certification to the Labeled Security Protection Profile (LSPP) at EAL3+. Evaluation for certification to Controlled Access Protection Profile (CAPP) at EAL3+ is also in progress.

For more on the Common Criteria see <http://niap.nist.gov/cc-scheme/>

