









## Security Begins with System z Secure Processing





## Built in Security to Defend Against Network Attacks













## **Provide End-to-End Encryption at Low Overhead** The need for end-to-end network encryption has become more pervasive due to regulations (e.g. Payment Card Industry requirements) Traditional router-based network encryption leaves data exposed Data encryption has always been processing intensive System z Communication Server uses crypto express 2 to encrypt network data end-to-end Encryption is now eligible for zIIP offload processing – reducing costs **Traditional Approach** exposed exposed Serve Network Network encrypted ATM, POS, Printer, Laptop, z/OS Device Device IPSec Network device Cisco router Cisco router Using z/OS and zIIP IPSec Network Network IPSec ATM, POS z/OS zlip Device Device Printer, Laptop IPSec Network device Any platform supporting the IPSec "end to end" encryption standard protocol either natively or with additional software 08 - End-to-End Security and Compliance v3.0.ppt



## The Foundation of Audit and Compliance is Comprehensive Logging

- System z SMF provides comprehensive logging across the sysplex
  - Consistent record formats help simplify compliance needs
  - Audit records report access to protected resources
- Log continuity from Tivoli zSecure Audit validates logs have been maintained
  - Uses the log system event records from multiple sources including System z
  - Examine activities of a specific user





- Detects security violations
- Captures security audit data from multiple systems
- Correlates data to identify audit risks
  who, what, on what, where, when, from where, to where
- Analysis engine for deep analysis of collected data
  Determine who was the last person to touch a particular file
- *Flexible reporting* related to specific compliance issues
- Checks for *log continuity* ensure that log collection is carried out

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