



Security with Assurance™

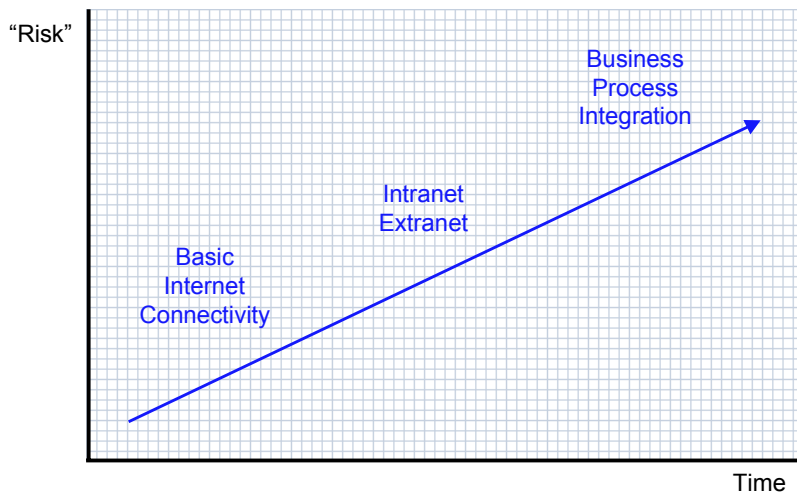
Gemini Strong Access Control Solutions

September 27, 2000

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FUNCTIONALITY LEADS SECURITY FOLLOWS



SUCCESS WITH SAC

- Need alignment of value systems
- Users are pragmatists
- Successful vendors are pragmatists
- SAC needs to be:
 - Flexible
 - Dynamic
 - Application-specific

PRESENTATION SUMMARY

- Gemini Security Kernel Protection Mechanisms
- Typical Application of Protection Rings
- Using Program Integrity to Partition a File System
- Using MLS to Partition a File System
- GemGuard Application
- GemGuard Architecture
- Gemini Webserver Architecture

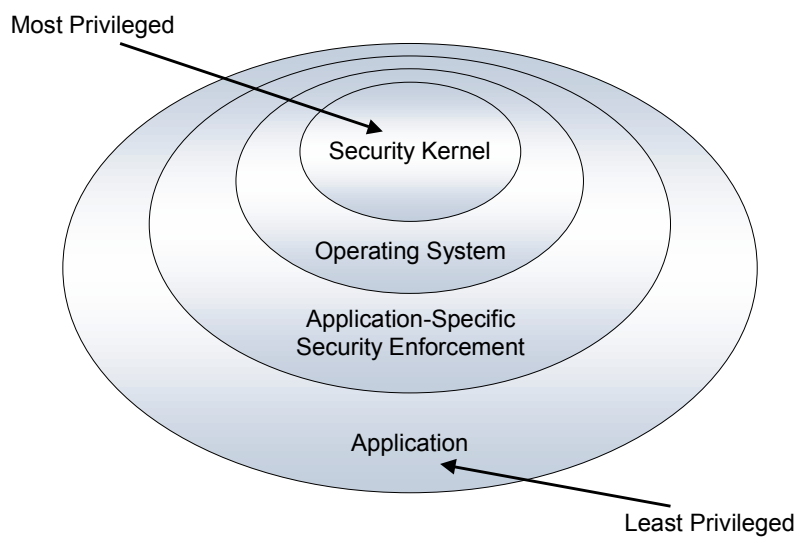
GEMINI SECURITY KERNEL PROTECTION MECHANISMS

- Label-Based MAC
- Ring Brackets
- Multi-Ring & Multi-Level File System
- Segmentation
- Process Separation
- Encryption and Key Management

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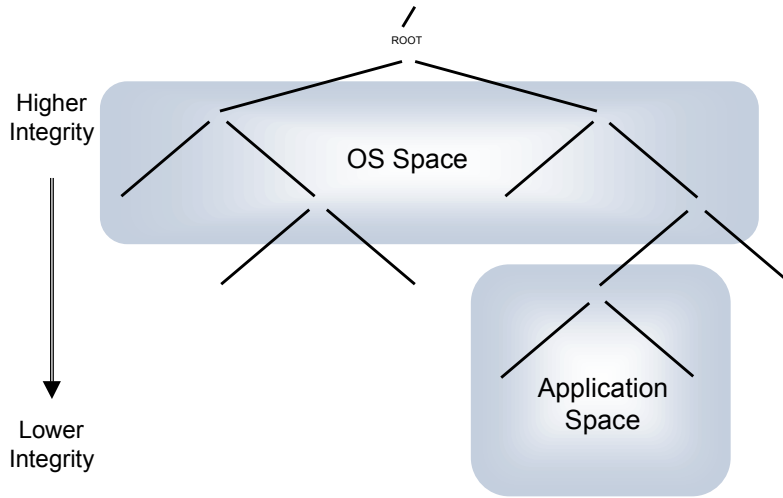
TYPICAL APPLICATION OF PROTECTION RINGS



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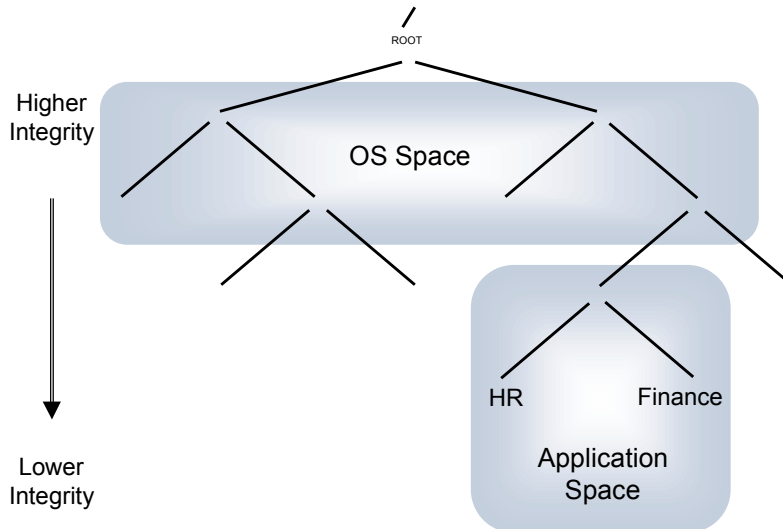
USING PROGRAM INTEGRITY TO PARTITION A FILE SYSTEM



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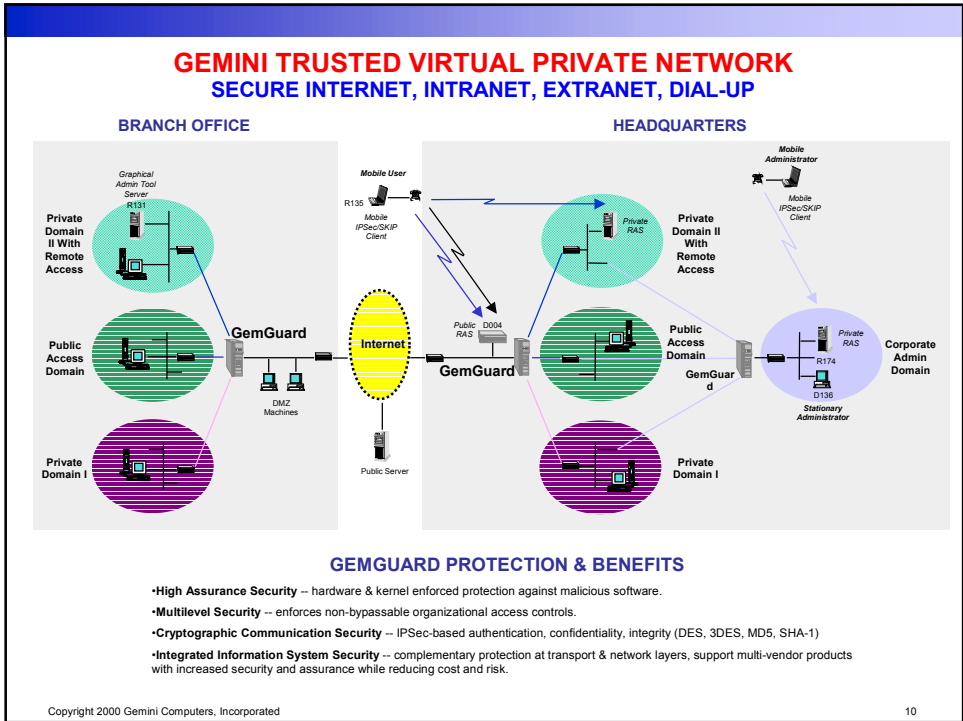
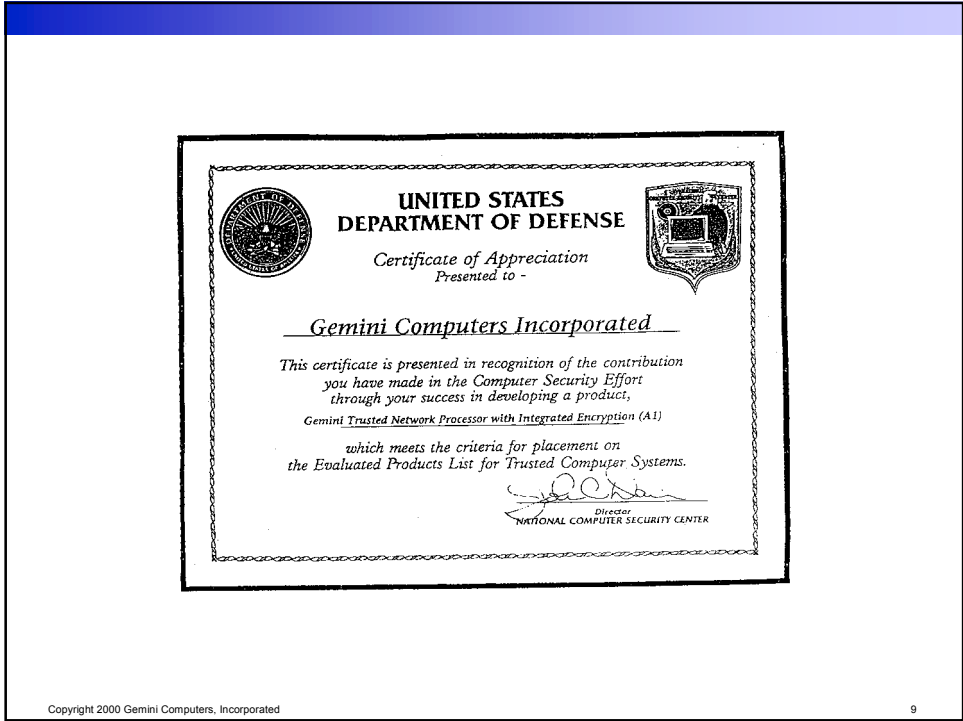
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USING MLS TO PARTITION A FILE SYSTEM

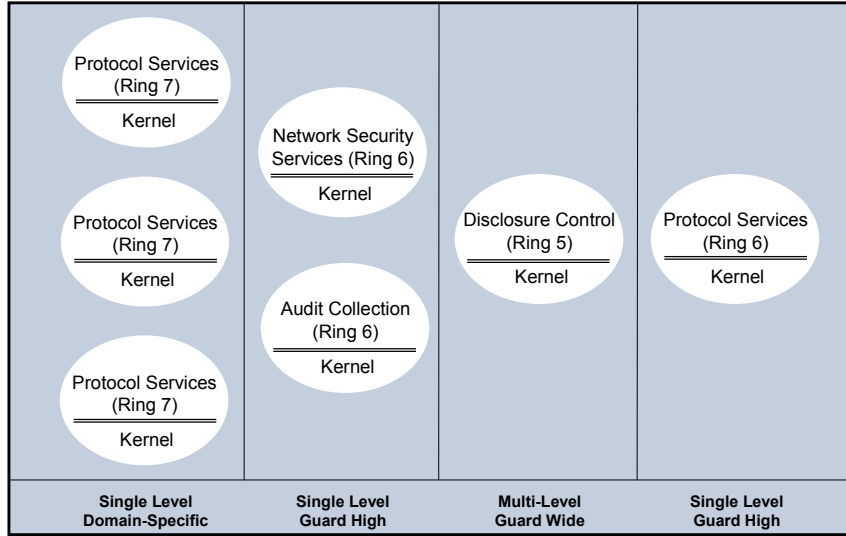


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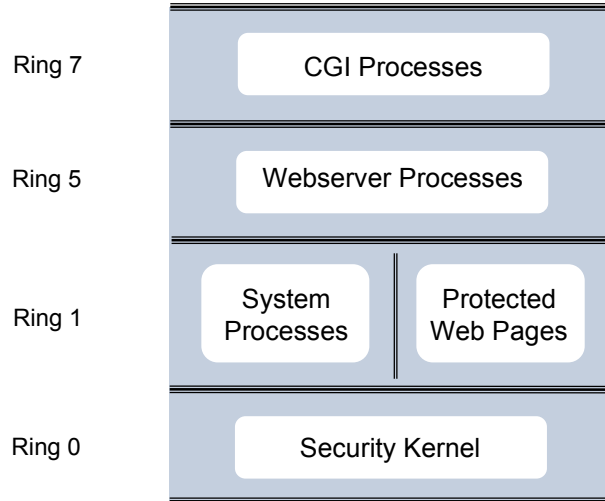
GEMGUARD ARCHITECTURE



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GEMINI WEBSERVER ARCHITECTURE



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