

Compliance Component

		DEFINITION		
Name	Virus D	Detection and Elimination Criteria for Gateways		
Description	To make available to the State of Missouri Enterprise a set of minimum criteria for the selection of anti-virus software and products for security protection of Gateways.			
Rationale	All Gateways within the State of Missouri computer environment shall execute an anti-virus security product that conforms to a minimum set of compliance criteria. These criteria shall serve as a checklist to help administrators choose the appropriate anti-virus solution for their environment.			
Benefits	the foll 1. 2. 3. 4.	owing security services: Multi-tiered virus protection. Offload virus scan processing to a dedicated system. Protection to Gateways from computer virus intrusion. Detection of computer viruses on an infected Gateway. Gateway recovery from a computer virus infection.		
		ASSOCIATED ARCHITECTURE LEVELS		
List the Domain Name	è	Security		
List the Discipline Nar	me	Technical Controls		
List the Technology A	rea Name	Virus Detection and Elimination		
List Product Compon	ent Name			
		COMPLIANCE COMPONENT TYPE		
Document the Compliance Component Type		Guideline		
Component Sub-type				
		COMPLIANCE DETAIL		
		Virus Detection and Elimination Criteria for Gateways		
State the Guideline, Standard or Legislation		State of Missouri computer Gateways shall run anti-virus software and procedures that meet the checklist of criteria detailed in the following service areas. General Gateway Anti-Virus Criteria Gateways shall be scanning for viruses continuously. Gateway anti-virus software shall provide integration capabilities with an enterprise anti-virus policy management suite. All State of Missouri Gateways shall execute a virus scan product certified by the ICSA Labs (http://www.icsalabs.com). ICSA Labs		

certification requires anti-virus products to detect 100% of all viruses "in the wild" as captured by the WildList Organization International (http://www.wildlist.org).

Virus Detection/Scanning Capabilities

- Anti-virus software shall be capable of detecting malicious software before it is executed.
- Shall support continuous real-time scanning capabilities.
- Shall provide detection for all "in the wild" virus types (boot viruses, file viruses, macro viruses, and script viruses).
- Shall provide detection for Zoo type viruses (file viruses, macro viruses, script viruses, polymorphic viruses, other malware, false positives).
- Shall provide detection for archived and compressed file types (.ZIP, TAR, LZH, recursive and self-extracting archives, runtimecompressed files).
- Shall provide scanning capabilities for all standard office file formats (including embedded OLE objects and password protected files).
- Shall provide for flexible configuration to include/exclude file types, drives and directories from scans.
- Shall support both Inbound and Outbound real-time scan protection.
- Shall provide Internet Download and Content scanning for protection from suspicious web content, including:
 - o ActiveX filtering and scanning
 - JavaScript filtering and scanning
- Shall provide Heuristic-scanning capabilities (intelligent analysis of unknown or suspicious sections of code).
- Gateway anti-virus software shall have the capability to scan all major message protocols including:
 - o SMTP
 - o POP3
 - o HTTP
 - o FTP
- Gateway anti-virus software shall support SPAM detection and antirelay (DNS based black hole lists and administrative defined antirelay).

Internet Content Filtering

- Gateway anti-virus products shall support the filtering of web content (including POP3 email) for tailored anti-viral support including filtering on items such as:
 - o File size
 - o DNS extensions (dns.com)
 - Web page content
 - o File extensions
 - o Multiple criteria

Virus Reporting Capabilities

- Anti-virus software shall provide remote notification of administrative alerts via the following methods:
 - o SMTP/E-Mail
 - SNMP Alerts

- o Log to a file
- Log to an Enterprise Repository

Post-Detection Virus Action Capabilities

- It is highly desirable that anti-virus software be able to eradicate malicious software and viruses detected through the following means:
 - o Quarantine moving the infected file into an area where it cannot cause more harm.
 - Virus Removal allows for repair of the damage caused by the virus.
 - Deny Access prohibits the file from being accessed once infected.
 - Delete complete removal of the infected file from the system.

Virus Scan Engine Update Capabilities

- Anti-virus signatures need to be updated continuously, either through a manual or automated process.
- Shall provide a secure procedure for keeping the detection engine up-to-date with the latest detection signatures & scan engine techniques (new viruses are discovered daily)
- Shall provide for automated updates of both scan engine and signatures on a scheduled interval or as needed.
- Virus scan engine shall have the ability to stay up-to-date with the latest developments in malicious software detection.

Anti-Virus Installation Criteria for Sever-based Gateways

- Anti-virus software shall be capable of automatic deployment and installation via the following:
 - Installation via image anti-virus software shall be able to be included in the standard Gateway server image deployed within the enterprise.
 - Remote installation Anti-virus software shall support deployment to remote systems (not locally-connected) providing the same level of protection to these devices.
- Anti-virus software shall provide "Wizard-enabled" installation routines to automate and expedite installation.

Service and Support

- State of Missouri virus protection products shall be backed by vendors who offer 24 x 7, 365 days a year phone support.
- Anti-virus vendors shall provide a comprehensive documentation and assistance package, including a facility for pro-active timely warnings of new malicious software and virus events.
- Anti-virus vendors shall provide "Virus Catalog Support" including:
 - A lexicon of known viruses detailing descriptions, how they are spread, what they do, how they are recognized and how to remove them.
 - o Downloads or links to disinfection tools.
 - A clear and concise description of the anti-virus tools functionality, including procedures for updating the product

	with new detection o General advice measures.	•	es. on attacks and avoidance			
Document Source Reference #	N/A					
	Standard Org	ganization				
Name	ISCA Labs	Website	www.iscalabs.com			
Contact Information		SCA Labs is a division of TruSecure Corporation and can be reached at -888-396-8348 (info@trusecure.com)				
	Governme	nt Body				
Name	National Institute of Standards and Technolog (NIST), Computer Security Resource Center (CSRC)	Website	http://csrc.nist.gov/			
Contact Information	inquiries@nist.gov					
	KEYWO	RDS				
List all Keywords	anti-virus vendors, anti-v worm, stealth, blended the of service, dropper, file in overwriting, parasitic, pol	us, virus detection, malicious code, virus products, virus reporting, ti-virus vendors, anti-virus engine, zoo, trojan horse, backdoor, rm, stealth, blended threat, boot sector infector, companion, denial service, dropper, file infector, logic bomb, malware, multi-partite, erwriting, parasitic, polymorphic, tunneling, variant, terminate and y resident (tsr), management				
	COMPONENT CL	ASSIFICATIO	N			
Provide the Classification	☐ Emerging ☐ Curre	ent 🗌	Twilight			
	Rationale for Compo	nent Classific	ation			
Document the Rationale for Component Classification						
	Conditional Use	Restrictions				
Document the Conditional Use Restrictions						
	Migration	Strategy				
Document the Migration Strategy						
	Impact Positio	n Statement				
Document the Position Statement on Impact						
	CURRENT	STATUS				
Provide the Current Status)	☐ In Development ☐ Unde	er Review 🛛	Approved			
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Reason	for Rejection		
Last Date Re	eviewed	Last Date Updated	
Reason	for Update		