

Compliance Component

		DEFINITION					
Name	Virus D	us Detection and Elimination Policies and Best Practices					
Description	To help threat industr	o organizations understand the issues they face when considering the from computer viruses and help them through the identification of y best practices in order to develop an anti-virus policy.					
Rationale	Provide by rais and pro	es a resource for establishing and tailoring organizational anti-virus policy ing key issues, listing best practices in virus detection and elimination, oviding suggested security policy guidance.					
Benefits	 Sou soft Recoord of N 	and anti-virus policies and procedures assist in preventing malicious tware from entering the State of Missouri IT environments. commended practices and processes can help prevent the negative effects viruses.					
ASSOCIATED ARCHITECTURE LEVELS							
List the Domain Name		Security					
List the Discipline Nar	ne	Technical Controls					
List the Technology A	rea Name	Virus Detection and Elimination					
List Product Compon	ent Name						
		COMPLIANCE COMPONENT TYPE					
Document the Compli Component Type	ance	Guideline					
Component Sub-type							
		COMPLIANCE DETAIL					
		Virus Detection and Elimination Policy Guidelines					
State the Guideline, Standard or Legislation		 Every State of Missouri Agency and/or organization shall have a formal Virus Detection Policy. Developing an effective virus protection policy is a crucial component of every agency's security plan. Such a policy shall accomplish two goals: a. Detail the IT department's procedures for preventing and managing virus outbreaks. b. Educate end-users about their roles and responsibilities in preventing virus outbreaks. All State of Missouri computer systems shall have MAEA approved anti-virus software installed and scheduled to run at regular intervals. This applies to all State of Missouri computer systems. This includes, but is not limited to, workstations, laptops, servers, gateways, and wireless devices. 					

 In addition, the anti-virus software and the virus pattern files shall be kept up-to-date.

3. File Transfers, Downloads and Attachments

- Any file transferred into and within the State of Missouri computer environments shall be scanned for virus infection prior to execution or use.
- 4. Training shall take place to ensure that all computer users know and understand safe anti-virus computing practices.
 - Virus education and training shall include information on the following:
 - Before installation, the source of the software shall be known.
 - Use of write-protected program installation media only.
 - Performing frequent backups on data files.
 - o Use of virus detection software.
 - Scanning for viruses on files that are downloaded from the Internet or any other outside source.
 - Scanning for viruses on all media brought from any outside source.
 - A requirement that end-users first contact their Information Technology Department before directly adding any software to the system.

5. Virus incident management procedures shall contain:

- Verification of a virus threat and rule out the possibility of a hoax, before notification of the threat is broadcast.
- The identity of personnel responsible for mitigation of virus threats.
- Internal escalation procedures and severity levels.
- Processes to identify, contain, eradicate, and recover from virus events.
- An up-to-date contact list of the organization's anti-virus vendors.
- Reporting of all virus outbreaks that have extended beyond a single computer within the State of Missouri enterprise (incident response link).

Virus Detection and Elimination Best Practices

- 1. Implement a layered defense strategy for virus protection.
 - The most effective way to ensure that the State of Missouri computing environment remains virus-free is to monitor all entryways for viruses using multiple scan engines at different tiers within the network. Entryways/tiers include:
 - o Internet gateways and Internet Servers
 - o Groupware and E-Mail Servers
 - LAN based servers (such as File and Print Servers)
 - o Workstations
 - Wireless devices
 - A combination of multiple scan engines can reduce single points of failure and create a unified anti-virus framework.

2. Encourage distributed responsibility / Establish an virus response team

- Similar to an emergency response team or other crossdisciplinary group within an organization, an virus response team can be assembled, then trained and empowered to deal calmly, effectively and professionally with any virus incident.
- When an incident does occur, specific people are already selected to immediately tackle cleanup.
- Providing team members with specific roles and authority sends a message to all employees that virus protection is important and that it involves more than IT staff.

3. Periodically review the anti-virus policy

• An annual review is necessary to reflect changing conditions and serves to reinforce important anti-virus issues that may not have been discussed for some time.

4. Attachments.

- Assume that ANY attachment you receive may be potentially infected, even if you know the author.
- Since many viruses originate from an infected computer and its address book, viruses will most likely come from family, friends, or business associates.
- When processing E-mail, only open messages and/or attachments that you are expecting. Avoid opening any E-mail attachment if it appears to be of a suspicious nature.
- Virus writers use social engineering tricks to tempt individuals into "taking the bait" on attachments, so always be careful.
- 5. Anti-virus files (patches, signatures, and engines) need to be updated continuously either through a manual or automated process.
 - End-users are far more likely to get a brand new virus in current circulation or outbreak mode, than an older virus that has been contained and is no longer active.
 - Laptop PC users shall connect their laptop to the network and get the latest anti-virus updates installed before taking the laptop out of the office.

6. Periodic System Checks

• All equipment and software within an organization's computer environment shall be scanned at predefined time intervals to ensure that the environment is free of any virus corruption.

7. System Integrity Checking

- All of an organization's personal computers and servers shall run integrity checking software. This software detects changes in configuration files, system software files, application software files and other systems resources.
- Integrity checking software shall be continuously enabled or run daily.

	 8. Write permissions to a With the exception of execute, write permissions to a controlled such that virus tries to modify 9. Stay Informed Major new virus outly vendors shall provide IT personnel shall als developments to avoid 	software of software the solons to soft an error will the software preaks will supprease preaks will supprease premain problems	nat shall modify itself in order to ftware shall be carefully be generated if a computer e. urface frequently. Anti-virus ts. ro-active about virus associated with major attacks.
Document Source Reference #	N/A	•	
	Standard Orga	nization	
Name	TruSecure Corporation	Website	www.trusecure.com
Contact Information	1-888-396-8348 (<u>info@trus</u> Anti-Virus Policy Guide Vers	sion 3.6.0 [A	VPG360.pdf]
Name	TechRepublic	Website	www.techrepublic.com
Contact Information	http://www.techrepublic.co Virus Protection Policy [viru	m/contact.jh s_protection	<u>html</u> _policy.pdf]
	Government	Body	
Name	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC)	Website	http://csrc.nist.gov/
Contact Information	inquiries@nist.gov		
	KEYWORI	DS	
List all Keywords	virus detection capability; n reporting; anti-virus vendor	nalicious cod s; anti-virus	le; virus products; virus s engine; hoax;
	COMPONENT CLAS	SIFICATIO	N
Provide the Classification	Emerging Current		Twilight 🗌 Sunset
	Rationale for Compone	nt Classifica	ation
Document the Rationale for Component Classification			
	Conditional Use R	estrictions	
Document the Conditional Use Restrictions			
	Migration Str	ategy	
Document the Migration Strategy			
	Impact Position S	Statement	
Document the Position Statement on Impact			

CURRENT STATUS								
Provide the Current Status)	In Development	nder Review 🛛 🖾 Approv	ed 🗌 Rejected					
AUDIT TRAIL								
Creation Date	02-06-2003	Date Accepted / Rejected	02-27-2003					
Reason for Rejection								
Last Date Reviewed	st Date Reviewed		06-28-2006					
Reason for Update	Update link							