Symantec Critical System Protection 5.0 overview and feature comparison with Symantec Host IDS 4.1.1 & Intruder Alert 3.6.1

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Purpose:

This document assists in explaining the differences between Symantec Host IDS, Symantec Intruder Alert and their recent update called Symantec Critical System Protection 5.0. The document contains three sections. The first section outlines the differences between the host intrusion prevention of the solutions. Section two provides an overview of the out of the box intrusion prevention policies for SCSP 5.0. Section three provides an overview of the out of the box detection policies included in SCSP 5.0.

Audience:

The audience for this document is the security architect, security analyst or IT manager responsible for server based intrusion prevention as well as system monitoring & auditing. This document is specifically written for existing Symantec Host IDS or Intruder Alert customers who are reviewing the opportunity to upgrade to Symantec Critical System Protection 5.0.

Section 1 – understanding the differences

This section outlines the functionality differences between the two solutions. For the most part, Symantec Critical System Protection 5.0 is a super-set of the Symantec Host IDS and Intruder Alert solutions. Symantec Critical System Protection leverages the high value functionality from Symantec Host IDS and incorporates an entirely new set of functionality that protects serves from day zero threats and provides enterprise wide proactive security policy enforcement.

(Note: The light yellow boxes denote an advantage for Symantec Critical System Protection 5.0)

	Feature Description	Symantec Host IDS 4.1.1	Intruder Alert 3.6.1	Symantec Critical System Protection 5.0
	Intrusion Prevention			
1	Process Monitor – watch critical processes, restart based upon policy (this was a Host IDS specific function)	Yes	No	The IPS component proactively protects critical processes from being terminated by validating system calls against security policy. The system monitoring component can watch for process termination and can restart or alert.
2	Process Blocker – blocks processes from starting (this was a Host IDS specific function)	Yes	No	Prevents new processes from starting by validating system calls against security policy
3	Process Reporter – a complete view of processes running on the system (snapshot – this was a Host IDS specific function)	Yes	No	No snapshot of processes is provided in SCSP.

4	Exploit prevention	No	No	Utilizes behavior control descriptors for O/S functions, services and applications. These descriptors define acceptable behavior and prevent hijacking by security risks. Any attempt by system services, applications or users to access system resources that is not acceptable will be automatically blocked and logged. Exploit prevention is automated through the use of "out of the box" policies. See section 2 for more details. Exploit prevention does not have to be implemented. But if it is implemented, it may operate in audit (prevention disabled) mode or enforcement mode.
5	Application profiling tool	No	No	Includes an application profiling tool to enable administrators to create a baseline behavior control descriptor for legacy applications or other applications that may not be included in the Symantec policy library
6	Restricts application usage of network resources	No	No	Restricts applications and services to their known good network activity. This prevents exploits from taking advantage of an application and forcing it to use the network in malicious ways
7	Prevents registry changes	No – HIDS has registry watch	No	Locks down the registry (or sections of the registry) to prevent modification. This assists in stopping unknown attacks that leverage registry setting changes as one of their attack vectors.
8	Executable white listing	Yes	No	Explicitly defines the set of applications and services that may execute on the endpoint. This allows administrators to create hardened systems that perform limited functionality to reduce the risk of exposure.
9	Executable black listing	Yes	Yes	Explicitly defines the set of applications and services that may NOT execute on an endpoint. This allows administrators to proactively enforce policy across the enterprise and ensure that unwanted applications do not reside on any servers. (for example prevent the running of P2P file sharing programs or multi-player game software)
10	Active protection of system configuration	No	No	Explicitly protects system configuration settings. This protection will prevent any user from tampering with or changing system settings no matter the level of user credentials.
11	Active protection of system resources	No	No	Explicitly protects system resources such as the registry, file systems and even default printers. This protection will prevent any user from tampering with or changing system settings no matter the level of user credentials.
12	MS Windows buffer	No	No	Detects and stops the execution of buffer

			1	
	overflow protection			overflow threats that exploit the operating
				system. (Symantec also has a separate memory firewall solution available to
				augment the buffer overflow protection
				provided by Symantec Critical System
				Protection)
13	Default O/S &	No	No	Default policies are listed in section 2. By
	interactive			providing out of the box systems can be
	protection policies			protected upon initial installation
14	Device controls	No	No	Prevents the use of (either reading or writing
				to/from) USB devices, removable media,
				drive mounting, Bluetooth devices, etc based
45	0 5 11	N	M	upon policy
15	Server firewall	No	No	Server firewall monitors incoming and
				outgoing traffic, blocks ports and protocols
40	D-F	N1.	NI	based upon policy.
16	Policy enforcement	No	No	Enforces security policy across the enterprise
				without requiring reconfigurations at each
				end point. Global policy enforcement can
				reduce the impact of configuration errors and reduce the amount of time required to
				enforce policy compliance.
				emorce policy compilance.
	System Monitoring			
17	File watch	Yes	No	Yes
18	Audit log tracking	Yes	Yes	Yes
19	Custom log tracking	Yes	Yes	Yes
20	Customizable	Yes	Yes	Yes
	intrusion detection			
	policies and			
	responses			
21	Smart event	Yes	Yes	Yes
	response			V.
22	Threshold based	Yes	No	Yes
00	alerting	V	V	V
23	System monitoring	Yes	Yes	Yes
24	policy library Global flags and	Yes	Yes	No
24	timers	res	res	NO
25	Bulk log transfers	No	No	Provides the administrator with the ability to
20	Duik log transiers	140	140	bulk transfer the security event log to the
				central management server.
26	Tamper resistant	No	No	Log files are fingerprinted via a check sum
1000	log files			and then securely transmitted to prevent
	3			tampering.
	Centralized			
	Reporting &			
	Alerting			
27	Customizable rule	Yes	Yes	Yes
	sets			
28	Reporting	Yes	Yes	Yes
29	Predefined queries	No	No	Yes
6.5	& custom queries			V.
30	Integrated with	Yes	Yes	Yes

erting – Email erting – SNMP ert management nsole	Yes	2000	
ert management	11	Yes	Yes
	Yes	Yes	Yes
113016	Yes	Yes	Yes
eepSight reatcon egration	No	No	Symantec DeepSight Threatcon information is integrated into the home page of the management interface. This allows administrators to keep up to date on the Theatcon level and provides links to important information about current threats.
atform Support			
indows 2000	Yes	Yes	Yes
indows NT	Yes	Yes	Yes
indows XP	Yes	Yes	Yes
indows 2003 EE	Yes	Yes	Yes
laris 8 SPARC	Yes	Yes	Yes
laris 9 SPARC	Yes	Yes	Yes
P/UX 11i	Yes	Yes	Monitoring & Auditing (IDS) only in 5.0
P/UX 11i v2	Yes	Yes	Monitoring & Auditing (IDS) only in 5.0
X 5.2 & 5.3	Yes + AIX 5.1	Yes	Monitoring & Auditing (IDS) only in 5.0
edhat Linux ES 3	Yes	Yes	1 st half 2006
edhat Linux 7.3	Yes	Yes	1 st half 2006
ISE Linux Interprise Server 8	No	No	1 st half 2006
SE Linux ofessional 9	No	No	1 st half 2006
M DB2	Yes	No	No
crosoft SQL erver	No	No	Yes
anagement erver language iriation	U.S. English	U.S. English	U.S. English
gent platform nguage variations	U.S. English	U.S. English	U.S English
ESA Management onsole	Yes	No	No, utilizes SESA collector at the management server (not the agent) to integrate with the Symantec Security Information manager 4.0
je ng	ent platform guage variations SA Management	ent platform guage variations English A Management Yes	ent platform guage variations U.S. English English No

Section 2 - Overview of the "Out of the Box" prevention policies for Windows & UNIX

	Windows Prevention Policy Library	Symantec Host IDS/Intruder Alert	For full detection policy details, please see document titled "Symantec Critical System Protection Prevention Policy Reference Guide"
53	Windows NULL Policy	Yes	Allows all processes to perform all functions
54	Windows Core OS Policy	No	Provides general integrity protection. Includes protection for processes and shared libraries that are loaded without user intervention.

			Confines many of the system services and applications to acceptable behavior. Policy limits the ability of a service or application to harm the integrity of the system or O/S. Policy is configurable.
55	Windows Strict OS Policy	No	Provides all of the protection of the core policy plus adds restrictions for interactive programs including blocking (admin can create white lists of acceptable programs) Also by default blocks changing of screen saver, blocks com object registration and ActiveX component installation, blocks changing of network services (such as DNS), blocks changing of default printer and blocks recognition of Bluetooth devices. Policy is configurable.
56	Windows Limited Execution Policy	No	Blocks the execution of all interactive programs except those listed by the administrator as approved applications. Suitable for dedicated workstations with a small set of applications that require a high level of control. (for example, a kiosk or an appliance like server)
57	Default protection policies for Microsoft IIS, Exchange, SQL Server, Outlook and Offfice	No	Yes – see prevention policy reference guide for more detailed information
	Unix Prevention Policy Library		
58	Solaris Standard Policy	No	Provides a general integrity protection policy. It confines many of the operating system daemons that have been identified as vulnerable as well as some common applications.
59	Solaris NULL Policy	No	Allows all processes to perform all functions
60	Apache Policy	No	Yes – see prevention policy reference guide for more detailed information
61	Sendmail Policy	No	Yes – see prevention policy reference guide for more detailed information
62	Postfix Policy	No	Yes – see prevention policy reference guide for more detailed information
63	Linux Standard Policy	No	Provides a general integrity protection policy. It confines many of the operating system daemons that have been identified as vulnerable as well as some common applications.

Section 3 - Overview of the "Out of the Box" detection policies for Windows & UNIX

	Windows Detection Policy Library	Symantec Host IDS/Intruder Alert	For full detection policy details, please see document titled "Symantec Critical System Protection Detection Policy Reference Guide"
65	Domain Trust Configuration – detects a creation or removal of a	Yes	Yes

	trusted domain configuration		
66	Agent Status – Monitors the status of SCSP at the endpoint	Yes	Yes – In addition, can proactively prevent the shutdown of its agent processes
67	File Tampering – detects changes to critical system files	Yes	Yes – In addition, can lock down system files and prevent write access so that files may not be modified
68	ISS scanner probe – detects a heavy probe	Yes	Yes
69	Malware – detects the effects of malicious applications on the Windows system – signatures identify 12 common known exploits	Yes	Yes – In addition, can automatically prevent known and unknown exploits from gaining a foothold into the system by restricting applications & services to known good behaviors. This prevents multi-vector attacks from hijacking a system service and forcing it to do alternative tasks.
70	Microsoft Front Page activity – detects requests made to the front page server	Yes	Yes, In addition can proactively prevent Microsoft Front Page activity based upon security policy
71	Microsoft IIS Security Configuration – detects changes to IIS security settings	Yes	Yes – In addition, can proactively prevent changes across the enterprise.
72	Microsoft IIS vulnerable CGI scripts – detects web access to vulnerable CGI scripts	Yes	Yes
73	Network communication configuration – detects changes to settings that impact network communications	Yes	Yes – In addition, can prevent changes to system configuration settings
74	Symantec AntiVirus client communication – detects alerts from Symantec Antivirus	Yes	Yes
75	Sans – Detects Microsoft Windows issues from the SANS Top 20 list	Yes	Yes – In addition, can proactively enforce security policy across the enterprise according the recommendations of SANS (for example, disable IIS on all servers that don't require it – After defined in policy, SCSP could prevent IIS from running on any server without having to re-configure every server)
76	System Audit Tampering – detects system audit changes and the clearing of audit logs	Yes	Yes – in addition, can proactively protect audit settings and prevent changes and clearing of audit logs based upon policy.
77	System Authentication Configuration – detects changes to Windows Active Directory authentication and encryption settings	Yes	Yes

78	Autorun detection – detects if changes are made to the autorun which would execute code upon startup (such as a CD Rom)	Yes	Yes
79	Windows Failed Access – detects when a user has failed to authenticate either locally or via a domain	Yes	Yes
80	System file protection status – detects events by the Windows File Protection system which monitors critical system files which should remain available, detects file restorations	Yes	Yes, In addition can proactively prevent system files from modification or deletion
81	System Group Management Changes – detects creating, enabling or changing of security groups	Yes	Yes, In addition can proactively prevent the administrator from making changes
82	System Hardening – detects changes to user configured registry keys	Yes	Yes
83	System Logon Success – detects all successful local and remote Windows logons	Yes	Yes
84	System remote logoff – detects all successful Windows logoffs.	Yes	Yes
85	System security configuration – detects changes to registry keys that impact security settings	Yes	Yes, In addition can proactively prevent changes to registry keys
86	System Shares Configuration - detects the creation or removal of a share	Yes	Yes, In addition can proactively prevent the creation or removal of a share
87	System Startstop Options – detects changes to system startup and shutdown settings	Yes	Yes, In addition can proactively prevent the changes to system startup and shutdown settings
88	System User Configuration – detects changes made to user accounts	Yes	Yes, In addition can proactively prevent changes to user accounts
89	USB Device Activity – detects connection and disconnection of USB devices	Yes	Yes, In addition can proactively prevent the use of USB drives as well as other removable media
	UNIX detection policy library		

90	Apache Vulnerable CGI Scripts – detects activities of certain (59) vulnerable CGI scripts	Yes	Yes, In addition can proactively prevent CGI scripts from executing
91	Agent Status – Monitors the status of SCSP at the endpoint	Yes	Yes – In addition, can proactively prevent the shutdown of its agent processes
92	File Tampering – detects changes to critical system files	Yes	Yes – In addition, can lock down system files and prevent write access so that files may not be modified
93	NetRecon – detects a scan by Symantec NetRecon	Yes	Yes
94	Sans – Detects issues from the SANS Top 20 list	Yes	Yes – In addition, can proactively enforce security policy across the enterprise according the recommendations of SANS
95	Sendmail Brokenpipe messages – detects broken pipe error messages	Yes	Yes, In addition has a default policy to protect Sendmail from exploitation. See intrusion prevention policy library.
96	Stack Execution Denied – detects attempts to execute instructions stored in the O/S stack	Yes	Yes
97	Syslogd tampering- detects when the syslog daemon isn't running	Yes	Yes
98	System Logon Failure – detects failed logon attempts from the local console or remote access	Yes	Yes
99	System Logon Success – detects successful logon attempts from the local console or remote access	Yes	Yes