



TECHNOLOGY INTEGRATION GUIDE

INTRODUCTION

RedSeal's cyber terrain analytics platform unifies public cloud, private cloud and physical network environments into one, interactive model. Customers see how (or if) data can move within and between environments. RedSeal overlays host and endpoint information along with identified vulnerabilities. Risk and compliance managers can see if their network is set up as intended and get alerts if anything changes. Vulnerability managers can identify areas their scanners are missing and improve their prioritization with RedSeal's vulnerability risk calculations. Incident responders can speed their investigation and containment with the network situational awareness RedSeal supplies. And, network security personnel can validate and manage their segmentation and test changes to see if they'll violate any policies.

RedSeal continues to license its standard software based on the number of layer 3 (L3) devices, layer 2(L2) devices, CIS/STIG checks and Cloud/SDN technologies.

Any integration without † is not standard and requires an additional license.

REDSEAL SDN/CLOUD INTEGRATIONS

Amazon AWS[†]

Amazon C2S[†]

Cisco ACI up to version 4.2.x[†]

Google Cloud Platform[†]

Microsoft Azure[†]

VMware NSX Manager up to version 6.4.x[†]

[†] Included with your standard RedSeal license

SERVICE CHAINS

Amazon AWS with Palo Alto NGFW

Cisco ACI with Cisco ASA firewalls

Cisco ACI with HAProxy load balancer

Cisco ACI with Palo Alto NGFW

Microsoft Azure with Fortinet NGFW

Microsoft Azure with F5 BIG-IP load balancers

Microsoft Azure with Palo Alto NGFW

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REDSEAL INTEGRATION APPS

ArcSight ESM 6.x
Forescout CounterACT 8.x
Gigamon GigaVUE-FM 5.00.x
IBM QRadar Security Intelligence 7.2.8.x
Rapid7 Nexpose Security Console 6.4x or later
Splunk Enterprise Security 5.1.x

NETWORK DEVICES AND INFRASTRUCTURE*

Routers/Switches

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
Alaxala	AX3660S	OS-L3M v.12.1.E
Alcatel-Lucent*	AOS	6.4.6
Alcatel-Lucent*	SR-OS	11.0.R4
Arista*	Arista EOS	4.7. to 4.11.4
Cisco*†	IOS	11.0 to 15.x
Cisco*†	IOS-XR	3.8 to 6.4.x
Cisco*†	NX-OS	5.1, 6.x, 7.x, 9.x
Cisco*	SG Series Switches	1.3.5.58
Cisco Meraki**	Cloud Managed Switching	MS v. 11.x and above
Dell Force10*	FTOS	8.3.x.x
Dell PowerConnect*	DNOS	5.x, 6.x
Enterasys*	Layer 2 (SecureStack)	03.01.33 and later
Enterasys	N and C Series	N: 07.21.03.0003 C: 06.42.12.0007
Ericsson (RedBack)	SmartEdge OS	SEOS-6.1.4.2
Extreme Networks*	ExtremeXOS	15.7 and later
Extreme Networks	VSP	6.1.2.0
Fujitsu*	Fujitsu XG	E11L10, E15L10
Fujitsu	Fujitsu IPCOM EX2	V01L03
Hitachi	Apresia 13200	AEOS 8.34.01
HPE*	Comware (H3C)	5.20, 7.x
HPE*	ProCurve	15.12
Huawei*	Versatile Routing Platform (VRP) 5	5.120
Juniper**	JunOS	8.5 - 10.4, 11.x, 12.x, 15.x
NEC	Univerge IX	9.6.12
Open Source	Linux Router	IP tables, routes, netstat, IP addresses
Yamaha	RTX 810, 1210	11.0.1.28, 14.0.1.16

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* Indicates Layer 2 support

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Load Balancers

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
A10*	AX Series and Thunder Series	ACOS 2.7.1 , ACOS 4.1.x and later
Brocade*	IronWare OS, NOS	BigIron/FastIron 8.0 ServerIron XL 7.5 VDX Switch (NOS) 7.4.0
Cisco*	ACE	A2 (3.1), A4 (2.1)
Citrix*	NetScaler	9.2 - 13.x
F5**†	BIG-IP	11.x - 16.x
F5	AFM	11.6 - 16.x
HAProxy	HAProxy	1.8.15
Radware*	Alteon	26.x, 28.x
Riverbed	SteelApp, Stingray	9.1, 10.3

Firewalls

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
Check Point†	REST	R80.10 or later
Cisco*	PIX	7 and 8
Cisco†	ASA	9.8.2 and above
Cisco Meraki†	Cloud Managed Security Appliances	MX, Z v. 14.x and above
Cisco†	Firepower Device Management (FDM)	6.2.3 and above
Cisco†	Firepower Management Center (FMC)	6.2.3 and above
Fortinet**†	Fortigate FortiOS	5.x, 6.x
Forcepoint	Sidewinder	7, 8.1.2, 8.2.0, 8.2.1, 8.3
Forcepoint	Stonesoft NGFW	5.7 5.8, 5.9, 6.x
Juniper**†	ScreenOS	6.x
Juniper**†	JunOS	8.5 - 18.x
Palo Alto Networks**†	PAN-OS	6.x, 7.x, 8.x, 9.x
Phoenix Contact	mGuard	8.6.x
SonicWALL	SonicOS	5.9
WatchGuard*	Fireware OS	11.10.2 or later

VPN Gateways and SD-WANs

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
Pulse Secure	Pulse Connect Secure VPN Gateway	9.1R1, 9.1R5
VMware	VMware SD-WAN by VeloCloud	3.3.x, 3.4.x

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Wireless Controllers

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
Aruba*†	ArubaOS	6.1.3, 6.4, 7.0
Aruba	ArubaOS-CX	10.02.0040
Cisco	Aironet IOS	11.0 - 15
Cisco Meraki†	Cloud Managed Wireless	MR v. 26.x and above
Cisco†	Wireless Controller	7.4

Configuration Managers**

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
BMC Network Automation	BladeLogic	8.2.0, 8.9.0
Cisco†	Prime Infrastructure	3.0, 3.1
Cisco	Security Manager	4.3.0
EMC Ionix	Voyence	4.1
F5†	BIG-IQ	2.1.0, 2.2.0, 2.3.0
Micro Focus Network Automation†	Opware	9.0, 9.1, 10.10, 10.20
Infoblox	NetMRI	6.4.1, 6.6.3.8, 6.9, 7.1
Juniper	NetScreen Security Manager (NSM)	2010.2
Juniper	Junos Space	15.1R1.11, 15.2R2.4
LogicVein	Net LineDancer (NetLD)	v16
SolarWinds†	Orion NCM	6.0, 7.x
Tripwire	Tripwire Enterprise	8.0, 8.1, 8.2

** Specific device support varies with each configuration management vendor. Please refer to RedSeal's Data Import Plugins Guide available from the RedSeal Support Portal for additional considerations on integration with configuration management systems. RedSeal also supports importing device configurations that have been saved to a file. Refer to documentation from specific device vendors for additional information on using this methodology.

CYBERSECURITY APPLICATIONS

Vulnerability Managers

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
Alert Logic (Critical Watch)	Fusion VM	4-2015.7.0.22
Beyond Trust	Retina CS	3.7.9, 3.8, 5.16
BeyondTrust (eEye)	Retina Network Security Scanner	3.8 & 5.16
Digital Defense, Inc.	Frontline	5.2.0.13
MaxPatrol	MaxPatrol	8
Open Source	nMap	6.25
Outpost24	Outscan, HIAB	Scanning engine: 3.2.7, XML App: 4.1.133.14

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Qualys†	QualysGuard/Qualys Report	6.15, 7.6, 8.11
Rapid7†	InsightVM/Nexpose	4.12, 5.12, 6.4, 6.5
Symantec	Vulnerability Manager (EOL)	10.0.5 (EOL)
Tenable†	Nessus	4.2, 4.4, 5.0, 6.11, 8.9.0
Tenable†	tenable.io	
Tenable†	tenable.sc	4.6.2.1, 4.8.1, 5.5, 5.10, 5.13.0
Tripwire (nCircle)	IP360	6.8.9(v1), 6.9(v2), 7.3
Tripwire	Tripwire Enterprise	V8.x

Security Management***

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
ForeScout	CounterACT	7.1.1, 8.1.x
McAfee	ePO	v4.5, v5.10

Governance/Risk/Compliance***

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
RSA	Archer	5.3
Symantec	CCS	Suite 11

Security Information and Event Management (SIEM)***

MANUFACTURER	DEVICE NAME/OS	VERSIONS SUPPORTED
Micro Focus	ArcSight	CEF
IBM	Qradar	LEEF
McAfee	ESM (Nitro)	N/A
Splunk†	Enterprise Security	N/A

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***RedSeal has a robust REST API, as well as a standard syslog event feed that can supply RedSeal intelligence to a wide range of third party solutions. Please request RedSeal integration and testing from your solution providers.