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[rapid7.com](http://rapid7.com)

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Symantec 2014 Government Internet Security Threat Report  
[symantec.com](http://symantec.com)

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The Enterprise Fights Back Series (Part III): Building an Incident Response Team  
[trendmicro.com](http://trendmicro.com)

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The SANS 20 CSCs and Tripwire Solutions: Detailed Mapping of the Sub-Controls  
[tripwire.com](http://tripwire.com)

# SANS

## Critical Security Controls

POSTER

FALL 2014 – 31<sup>ST</sup> EDITION

## CRITICAL SECURITY CONTROLS SOLUTION PROVIDERS

and

## CRITICAL SECURITY CONTROLS FOR EFFECTIVE CYBER DEFENSE

# THE CRITICAL SECURITY CONTROLS SOLUTION PROVIDERS

### 1 INVENTORY OF AUTHORIZED AND UNAUTHORIZED DEVICES

- P PRIMARY:** Discovery, Vulnerability Assessment
- S SECONDARY:** Network Access Control
- SOLUTION = PROVIDER:**
- P AVDS = Beyond Security
  - P Retina = Beyond Trust
  - P Fusion VM = Critical Watch
  - P McAfee Vulnerability Manager = Intel Security/McAfee
  - P IPSonar = Lumeta
  - P NMAP, Open VAS = Open Source
  - P QualysGuard = Qualys
  - P Nexpose = Rapid7
  - P Altiris Asset Management Suite, CCS = Symantec
  - P Nessus, PVS = Tenable
  - P Tripwire IP360, Tripwire Enterprise and Tripwire CCM = Tripwire
  - S ClearPass = Aruba
  - S Network Sentry = Bradford Networks
  - S Identity Services Engine = Cisco
  - S CounterACT = ForeScout

### 2 INVENTORY OF AUTHORIZED AND UNAUTHORIZED SOFTWARE

- P PRIMARY:** Software Change Management, Vulnerability Management
- S SECONDARY:** Application Whitelisting, Virtual Container
- SOLUTION = PROVIDER:**
- P Retina = Beyond Trust
  - P Endpoint Manager = IBM
  - P Patch and Remediation = Lumension
  - P System Center = Microsoft
  - P QualysGuard = Qualys
  - P Corporate Software Inspector = Secunia
  - P Altiris Client Management Suite = Symantec
  - P Nessus, PVS = Tenable
  - P Tripwire IP360, Tripwire Enterprise and Tripwire CCM = Tripwire
  - S Privilege Guard = Avecto
  - S Security Platform = Bit9
  - S vSentry = Bromium
  - S Trusteer Apex = IBM
  - P McAfee Application Control = Intel Security/McAfee
  - S FreeSpace Enterprise = Invincea
  - S Application Control = Lumension
  - S Integrity = Signacert
  - S Application Control = Viewfinity

### 3 SECURE CONFIGURATIONS FOR HARDWARE AND SOFTWARE ON LAPTOPS, WORKSTATIONS, AND SERVERS

- P PRIMARY:** Vulnerability Assessment
- S SECONDARY:** Patch Management, Secure Remote Access
- SOLUTION = PROVIDER:**
- P Retina = BeyondTrust
  - P Endpoint Manager = IBM
  - P McAfee Vulnerability Manager/McAfee Policy Auditor = Intel Security/McAfee
  - P Patch and Remediation = Lumension
  - P System Center = Microsoft
  - P QualysGuard = Qualys
  - P Altiris ITMS, CCS = Symantec
  - P Nessus, PVS = Tenable
  - P Tripwire IP360, Tripwire Enterprise and Tripwire CCM = Tripwire
  - P vCenter Configuration Manager = VMware
  - S Connected Access = Axeda
  - S Enterprise = SecureLink
  - S Xsuite = Xceedium

### 4 CONTINUOUS VULNERABILITY ASSESSMENT AND REMEDIATION

- P PRIMARY:** Vulnerability Assessment
- SOLUTION = PROVIDER:**
- P AVDS = Beyond Security
  - P Retina = Beyond Trust
  - P Fusion VM = Critical Watch
  - P Endpoint Manager = IBM
  - P McAfee Vulnerability Manager = Intel Security/McAfee
  - P IPSonar = Lumeta
  - P NMAP, Open VAS = Open Source
  - P QualysGuard = Qualys
  - P Nexpose, Metasploit = Rapid7
  - P Altiris ITMS, CCS = Symantec
  - P Nessus, PVS = Tenable
  - P Tripwire IP360, Tripwire Log Center = Tripwire

### 5 MALWARE DEFENSE

- P PRIMARY:** Endpoint Protection Platforms
- S SECONDARY:** Network-Based Protection
- SOLUTION = PROVIDER:**
- P McAfee Endpoint Protection = Intel Security/McAfee
  - P Endpoint Security for Business = Kaspersky
  - P Complete Security Suite = Sophos
  - P SEP = Symantec
  - P Enterprise Security for Endpoints = Trend Micro
  - S FailSafe = Damballa
  - S FireEye Network Threat Prevention Platform = FireEye
  - S Network IPS = IBM
  - S Advanced Threat Defense = Intel Security/McAfee
  - S StealthWatch = Lancope
  - S Firepower = Sourcefire
  - S Deep Discovery = Trend Micro

### 6 APPLICATION SOFTWARE SECURITY

- P PRIMARY:** Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST)
- S SECONDARY:** Web Application Firewalls
- SOLUTION = PROVIDER:**
- P HackAlert CodeSecure = Armorize (ProofPoint)
  - P Cenzic Enterprise = Cenzic (Trustwave)
  - P CX Suite = Checkmarx
  - P Code Advisor = Coverity (Synopsis)
  - P HP Fortify 360, HP Fortify on Demand, HP WebInspect = HP (Fortify)
  - P Appscan = IBM
  - P Insight = Klocwork (RogueWave Software)
  - P NTO Spider = NTOObjectives
  - P Agnitio, W3AF, Wapiti = Open Source
  - P QualysGuard WAS = Qualys
  - P CLM = Sonatype
  - P Static/Dynamic = Veracode
  - P Sentinel = WhiteHat
  - P Kona = Akamai
  - P Web App Firewall = Barracuda
  - P Netscaler = Citrix
  - P CloudFlare Pro, Business, Enterprise = CloudFlare
  - P Managed Web App Firewall, Web Application Testing = Dell SecureWorks
  - S Application Security Manager = FS
  - S SecureSphere, Incapsula = Imperva
  - S Mod Security, IronBee = Open Source
  - S QualysGuard WAF = Qualys
  - S AppWall = Radware
  - S StingRay Application Firewall = Riverbed
  - S WAF Cloud Proxy = Sucuri
  - S Web Application Firewall = Trustwave

### 7 WIRELESS ACCESS CONTROL

- P PRIMARY:** Wireless LAN Intrusion Prevention System (WIPS)
- S SECONDARY:** Network Access Control
- SOLUTION = PROVIDER:**
- P HivEOS = Aerohive
  - P WiFi Analyzer = AirMagnet (Fluke)
  - P Zone Defense = AirPatrol (Sysorex)
  - P WIPS = AirTight
  - P RF Protect = Aruba
  - P aWIPS = Cisco
  - P AirDefense = Motorola
  - P Nessus, Security Center = Tenable
  - P Tripwire CCM = Tripwire
  - S ClearPass = Aruba
  - S Network Sentry = Bradford Networks
  - S Identity Services Engine = Cisco
  - S CounterACT = ForeScout

### 8 DATA RECOVERY CAPABILITY

- SOLUTION = PROVIDER:**
- AccessData FTK and PRTK = AccessData
  - PowerBroker Recovery for Active Directory = BeyondTrust
  - ElcomSoft EFDD – BitLocker, TruCrypt = Elcom
  - Encase Enterprise Edition = Guidance Software
  - Tivoli Storage Manager = IBM
  - NBU = Symantec

### 9 SECURITY SKILLS ASSESSMENT AND APPROPRIATE TRAINING TO FILL GAPS

- P PRIMARY:** Assessment
- S SECONDARY:** Skills Development/Degrees
- SOLUTION = PROVIDER:**
- P Cyber Skills Assessment = GIAC (SANS)
  - P Cyber Simulators (Netwars) and Skills Validation = SANS Institute
  - S GIAC Critical Controls Certification = GIAC (SANS)
  - S 50 Hands-on Immersion Courses = SANS Institute
  - S Degree Programs = SANS Technology Institute
  - S Degree Programs = University of Tulsa
  - S Degree Programs = Virginia Tech
  - S Degree Programs = Dakota State University
  - S Degree Programs = Naval Postgraduate School

### 10 SECURE CONFIGURATIONS FOR FIREWALLS, ROUTERS, AND SWITCHES

- SOLUTION = PROVIDER:**
- Firewall Analyzer & FireFlow = AlgoSec
  - SecurityManager = FireMon
  - Network Configuration Manager = IBM
  - Platform = RedSeal
  - Firewall Assurance = Skybox Security
  - Firewall Security Manager = Solarwinds
  - Tripwire Enterprise = Tripwire
  - Security Policy Orchestration Solution = Tuffin

The blue box indicates this provider is part of the WhatWorks program or a sponsor of this poster

### 11 LIMITATION AND CONTROL OF NETWORK PORTS, PROTOCOLS, AND SERVICES

- P PRIMARY:** Discovery, Vulnerability Assessment
- S SECONDARY:** Application Firewall
- SOLUTION = PROVIDER:**
- P AVDS = Beyond Security
  - P Retina = Beyond Trust
  - P Fusion VM = Critical Watch
  - P McAfee Vulnerability Manager = Intel Security/McAfee
  - P IPSonar = Lumeta
  - P NMAP, Open VAS = Open Source
  - P QualysGuard = Qualys
  - P Altiris Asset Management Suite, CCS = Symantec
  - P Nexpose = Rapid7
  - P Tripwire IP360, Tripwire Enterprise and Tripwire CCM = Tripwire
  - S ASA Series and Virtual ASA = Cisco
  - S SonicWall = Dell Sonicwall
  - S FortiGate = Fortinet
  - S McAfee Next Generation Firewall = Intel Security/McAfee
  - S SRX, Netscreen, Firefly = Juniper
  - S PaloAlto NGFW = Palo Alto Networks

### 12 CONTROLLED USE OF ADMINISTRATIVE PRIVILEGES

- SOLUTION = PROVIDER:**
- Privilege Guard = Avecto
  - PowerBroker = BeyondTrust
  - SuperSU = Chainfire
  - Privileged Account Security Solution = Cyber-Ark
  - Privileged Password Manager = Dell
  - Security Privileged Identity Manager = IBM
  - System Center, Active Directory = Microsoft
  - sudo = Open Source
  - Access Auditor = Security Compliance Corporation (SCC)
  - CCS = Symantec
  - Privilege Management = Viewfinity
  - Xsuite = Xceedium

### 13 BOUNDARY DEFENSE

- P PRIMARY:** Firewall
- S SECONDARY:** Intrusion Prevention System
- SOLUTION = PROVIDER:**
- P 2200 = Check Point
  - P ASA Series and Virtual ASA = Cisco
  - P SonicWall = Dell Sonicwall
  - P FortiGate = Fortinet
  - P McAfee Next Generation Firewall = Intel Security/McAfee
  - P SRX, Netscreen, Firefly = Juniper
  - P PaloAlto NGFW = Palo Alto Networks
  - S XPS = Fidelis
  - S FireEye Network Threat Prevention Platform = FireEye
  - S HP Tipping Point NGFW = HP
  - S Network IPS = IBM
  - S McAfee Network Security Platform = Intel Security/McAfee
  - S StealthWatch = Lancope
  - S Snort, Suricata = Open Source
  - S Firepower = Sourcefire (Cisco)

### 14 MAINTENANCE, MONITORING, AND ANALYSIS OF AUDIT LOGS

- SOLUTION = PROVIDER:**
- SIEM = AccelOps
  - Unified Security Management = AlienVault
  - CorreLog Security Correlation Server = CorreLog
  - Security Monitoring, Log Management = Dell SecureWorks
  - SecureVUE = EIQ Networks
  - Enterprise = EventTracker
  - ArCSight ESM, Logger = HP
  - QRadar = IBM
  - Event Correlation = Infogressive
  - McAfee Enterprise Security Manager = Intel Security/McAfee
  - StealthWatch = Lancope
  - Security Intelligence Platform = LogRhythm
  - Hawkeye AP = KeyW
  - Snare, OSSIM = Open Source
  - Log and Event Manager = SolarWinds
  - Splunk App for Enterprise Security = Splunk
  - Security Center = Tenable
  - LogLogic = TIBCO
  - Tripwire Log Center = Tripwire

### 15 CONTROLLED ACCESS BASED ON NEED TO KNOW

- SOLUTION = PROVIDER:**
- Access Assurance Suite = Courion
  - Appliance = HyTrust
  - Access Manager for Web = IBM
  - Active Directory = Microsoft
  - Access Governance Suite = Novell
  - Identity Governance Suite = Oracle
  - Aveska = RSA
  - Identity IQ = Sailpoint
  - Access Auditor = Security Compliance Corporation (SCC)

### 16 ACCOUNT MONITORING AND CONTROL

- SOLUTION = PROVIDER:**
- Access Assurance Suite = Courion
  - Enterprise Reporter = Dell
  - Appliance = HyTrust
  - Security Identity Manager = IBM
  - AD Reports = MaxPowerSoft
  - Active Directory = Microsoft
  - Access Management Suite = Novell
  - Identity Governance Suite = Oracle
  - Aveska = RSA
  - Identity IQ = Sailpoint
  - Access Auditor = Security Compliance Corporation (SCC)

### 17 DATA PROTECTION

- P PRIMARY:** DLP
- S SECONDARY:** Encryption
- SOLUTION = PROVIDER:**
- P DLP Software Blade = Check Point
  - P TrueDLP = Code Green
  - P XPS = Fidelis
  - P FortiGate = Fortinet
  - P McAfee Total Protection for DLP = Intel Security/McAfee
  - P DLP = RSA
  - P DLP = Symantec
  - P DLP and SecureCloud = Trend Micro
  - P Digital Guardian = Verdasys
  - P Full Disk Encryption = Check Point
  - S Cloud Lock for Salesforce = CloudLock
  - S McAfee Total Protection for DLP = Intel Security/McAfee
  - S BitLocker = Microsoft
  - S Data Protection Manager = RSA
  - S Storage Secure = Safenet
  - S Encryption Manager Services = Symantec
  - S Safend Data Protection Suite = Wave
  - S SecureDoc = WinMagic

### 18 INCIDENT RESPONSE AND MANAGEMENT

- SOLUTION = PROVIDER:**
- ResolutionOne™ Platform = AccessData
  - CarbonBlack = Bit9
  - UFED = Cellebrite
  - Security Module = Co3 Systems
  - CorreLog Enterprise Server = CorreLog
  - CyberSponse = CyberSponse
  - Essential Series, Incident Response Services, Security Monitoring = Dell SecureWorks
  - F-Response Enterprise = F-Response
  - EnCase Cybersecurity = Guidance Software
  - Incident Response & Forensics = Infogressive
  - StealthWatch = Lancope
  - Smart Response = LogRhythm
  - Mandiant Intelligent Response (MIR) = Mandiant

### 19 SECURE NETWORK ENGINEERING

- SOLUTION = PROVIDER:**
- Firewall Analyzer & FireFlow = AlgoSec
  - Halo Platform = CloudPassage
  - SecurityManager = FireMon
  - Platform = RedSeal
  - Firewall Assurance = Skybox Security
  - Firewall Security Manager = Solarwinds
  - Tripwire Enterprise = Tripwire
  - Security Policy Orchestration Solution = Tuffin

### 20 PENETRATION TESTING AND RED TEAM EXERCISES

- SOLUTION = PROVIDER:**
- Core Impact = Core Security
  - Penetration Testing Services = Dell SecureWorks
  - Penetration Testing Services = Infogressive
  - CANVAS = Immunity
  - Mobisec = Open Source
  - Pwn Pad/Plug/Appliance = Pwnie Express
  - Metasploit = Rapid7
  - SAINT 8 Security Suite = SAINT
  - MySecurityScanner = Secure Ideas
  - Armitage / Cobalt Strike = Strategic Cyber LLC

### 21 NETWORK SECURITY MONITORING AND ANALYSIS

- SOLUTION = PROVIDER:**
- SIEM = AccelOps
  - Unified Security Management = AlienVault
  - CorreLog Security Correlation Server = CorreLog
  - Security Monitoring, Log Management = Dell SecureWorks
  - SecureVUE = EIQ Networks
  - Enterprise = EventTracker
  - ArCSight ESM, Logger = HP
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  - LogLogic = TIBCO
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Solutions listed on this poster were selected and reviewed by SANS Institute faculty, other members of the SANS Community and John Pescatore, SANS Director of Emerging Security Trends.

For an ongoing discussion of these, please visit the Solutions Directory at [sans.org/critical-security-controls/vendor-solutions](http://sans.org/critical-security-controls/vendor-solutions)

