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2	HIPAA Citation	HIPAA Security Rule Standard Implementation Specification	Implementation	Requirement Description	Solution
3	164.308(a)(1)(i)	<i>Security Management Process</i>	Required	Policies and procedures to manage security violations	
4	164.308(a)(1)(ii)(A)	Risk Analysis	Required	Conduct vulnerability assessment	Penetration test, vulnerability assessment
5	164.308(a)(1)(ii)(B)	Risk Management	Required	Implement security measures to reduce risk of security breaches	SIM/SEM, patch management, vulnerability management, asset management, helpdesk
6	164.308(a)(1)(ii)(C)	Sanction Policy	Required	Worker sanction for policies and procedures violations	Security policy document management
7	164.308(a)(1)(ii)(D)	Information System Activity Review	Required	Procedures to review system activity	Log aggregation, log analysis, security event management, host IDS
8	164.308(a)(2)	<i>Assigned Security Responsibility</i>	Required	Identify security official responsible for policies and procedures	
9	164.308(a)(3)(i)	<i>Workforce Security</i>	Required	Implement policies and procedures to ensure appropriate PHI access	
10	164.308(a)(3)(ii)(A)	Authorization and/or Supervision	Addressable	Authorization/supervision for PHI access	Mandatory, discretionary and role-based access control: ACL, native OS policy enforcement
11	164.308(a)(3)(ii)(B)	Workforce Clearance Procedure	Addressable	Procedures to ensure appropriate PHI access	Background checks
12	164.308(a)(3)(ii)(C)	Termination Procedures	Addressable	Procedures to terminate PHI access security policy document management	Single sign-on, identity management, access controls
13	164.308(a)(4)(i)	<i>Information Access Management</i>	Required	Policies and procedures to authorize access to PHI	
14	164.308(a)(4)(ii)(A)	Isolation Health Clearinghouse Functions	Required	Policies and procedures to separate PHI from other operations	Application proxy, firewall, mandatory UPN, SOCKS
15	164.308(a)(4)(ii)(B)	Access Authorization	Addressable	Policies and procedures to authorize access to PHI	Mandatory, discretionary and role-based access control
16	164.308(a)(4)(ii)(C)	Access Establishment and Modification	Addressable	Policies and procedures to grant access to PHI	Security policy document management
17	164.308(a)(5)(i)	<i>Security Awareness Training</i>	Required	Training program for workers and managers	
18	164.308(a)(5)(ii)(A)	Security Reminders	Addressable	Distribute periodic security updates	Sign-on screen, screen savers, monthly memos, e-mail, banners
19	164.308(a)(5)(ii)(B)	Protection from Malicious Software	Addressable	Procedures to guard against malicious software host/network IPS, unified threat management, network anomaly detection, patch management, firmware management, host/network IDS, OS access controls (least-privileged user), content filtering	Network firewall, desktop firewall, antivirus, anti-spam
20	164.308(a)(5)(ii)(C)	Log-in Monitoring	Addressable	Procedures and monitoring of log-in attempts host IDS	Log aggregation, log analysis, security event management
21	164.308(a)(5)(ii)(D)	Password Management	Addressable	Procedures for password management	Password management software, single sign-on, metadirectories
22	164.308(a)(6)(i)	<i>Security Incident Procedures</i>	Required	Policies and procedures to manage security incidents	
23	164.308(a)(6)(ii)	Response and Reporting	Required	Mitigate and document security incidents	Helpdesk, vulnerability management, security event management

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24	164.308(a)(7)(i)	<i>Contingency Plan</i>	Required	Emergency response policies and procedures	
25	164.308(a)(7)(ii)(A)	Data Backup Plan	Required	Data backup planning and procedures	Backup support on-site/off-site
26	164.308(a)(7)(ii)(B)	Disaster-Recovery Plan	Required	Data recovery planning and procedures	
27	164.308(a)(7)(ii)(C)	Emergency Mode Operation Plan	Required	Business continuity procedures	
28	164.308(a)(7)(ii)(D)	Testing and Revision Procedures	Addressable	Contingency-planning periodic testing procedures	
29	164.308(a)(7)(ii)(E)	Applications and Data Criticality Analysis	Addressable	Prioritize data and system criticality for contingency planning	Change management control software, asset management software
30	164.308(a)(8)	<i>Evaluation</i>	Required	Periodic security evaluation	Perform a periodic compliance assessment
31	164.308(b)(1)	<i>Business Associate Contracts and Other Arrangements</i>	Required	CE implement BACs to ensure safeguards	
32	164.308(b)(4)	Written Contract	Required	Implement compliant BACs	Contracts
33	164.310(a)(1)	<i>Facility Access Controls</i>	Required	Policies and procedures to limit access to systems and facilities	Policies and procedures
34	164.310(a)(2)(i)	Contingency Operations	Addressable	Procedures to support emergency operations and recovery	Procedures
35	164.310(a)(2)(ii)	<i>Facility Security Plan</i>	Addressable	Policies and procedures to safeguard equipment and facilities	Policies and procedures
36	164.310(a)(2)(iii)	Access Control and Validation Procedures	Addressable	Facility access procedures for personnel	Card readers, locks, biometrics, proximity badges, tokens
37	164.310(a)(2)(iv)	Maintenance Records	Addressable	Policies and procedures to document security-related repairs and modifications	Policies and procedures
38	164.310(b)	<i>Workstation Use</i>	Required	Policies and procedures to specify workstation environment and use	Desktop management, policy management, application management
39	164.310(c)	<i>Workstation Security</i>	Required	Physical safeguards for workstation access	Card readers, locks, biometrics, tokens, hardware cables, proximity tokens, locking screen savers
40	164.310(d)(1)	<i>Device and Media Controls</i>	Required	Policies and procedures to govern receipt and removal of hardware and media	
41	164.310(d)(2)(i)	Disposal	Required	Policies and procedures to manage media and equipment disposal	Destruction, recycling
42	164.310(d)(2)(ii)	Media Reuse	Required	Policies and procedures to remove PHI from media and equipment	Zeroing, degaussing
43	164.310(d)(2)(iii)	Accountability	Addressable	Document hardware and media movement	Logs, receipts, cameras
44	164.310(d)(2)(iv)	Data Backup and Storage	Addressable	Backup PHI before moving equipment	Tape/network backup, encrypted backup
45	164.312(a)(1)	<i>Access Control</i>	Required	Technical (administrative) policies and procedures to manage PHI access	Policies and procedures
46	164.312(a)(2)(i)	Unique User Identification	Required	Assign unique IDs to support tracking	Directories, OS user directories, ERP software, ID management software, single sign-on, metadirectories
47	164.312(a)(2)(ii)	Emergency Access Procedure	Required	Procedures to support emergency access	Procedures
48	164.312(a)(2)(iii)	Automatic Logoff	Addressable	Session termination mechanisms	Time-outs, proximity tokens, scheduled access control
49	164.312(a)(2)(iv)	Encryption and Decryption	Addressable	Mechanism for encryption of stored PHI	File and folder encryption, hard drive encryption, e-mail encryption
50	164.312(b)	<i>Audit Controls</i>	Required	Procedures and mechanisms for monitoring system activity	Log aggregation, log analysis, security event management, host IDS
51	164.312(c)(1)	<i>Integrity</i>	Required	Policies and procedures to safeguard PHI unauthorized alteration	Policies and procedures

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52	164.312(c)(2)	Mechanism to Authenticate Electronic Protected Health Information	Addressable	Mechanisms to corroborate PHI is not altered	PKI, digital signatures, OS/database/file hashing
53	164.312(d)	<i>Person or Entity Authentication</i>	Required	Procedures to verify identities	SAML, PKI, ID management software, single sign-on, metadirectoreis, passwords, authentication tokens, digital certificates, biometrics
54	164.312(e)(1)	<i>Transmission Security</i>	Required	Measures to guard against unauthorized access to transmitted PHI	Controls
55	164.312(e)(2)(i)	Integrity Controls	Addressable	Measures to ensure integrity of PHI on transmission	Ipsec, VPN, S/MIME, PGP
56	164.312(e)(2)(ii)	Encryption	Addressable	Mechanism for encryption of transmitted PHI	Ipsec, VPN, PPTP VPN, SSL VPN, S/MIME, SSH, PGP