

**Version 9.1**

**February 2018**

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**Change History**

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Description of Change | Author | Date Published |
| 1.0 | Final Version of Initial Release | HITRUST | September 11, 2009 |
| 2.0 | NIST SP 800-53 r2 | HITRUST | January 12, 2010 |
|  | PCI-DSS v1.2 |  |  |
|  | HITECH |  |  |
|  | ISO/IEC 27002 Rework |  |  |
| 2.1 | (State of Mass.) 201 CMR 17.00 | HITRUST | March 1, 2010 |
|  | CMR 17.00 |  |  |
| 2.2 | Cloud Security Alliance Controls Matrix | HITRUST | September 10, 2010 |
|  | v1.0, |  |  |
|  | Joint Commission (formerly JCAHO) |  |  |
|  | Information Management |  |  |
|  | State of Nevada (NRS 603A) |  |  |
| 3.0 | CMS IS ARS v1-Appendix A (HIGH) | HITRUST | December 1, 2010 |
| 3.1 | PCI-DSS v2.0 | HITRUST | August 4, 2011 |
| 4.0 | NIST SP 800-53 r3 | HITRUST | December 28, 2011 |
|  | HIE WG Recommendations |  |  |
|  | NIST-ISO-HIPAA Harmonization |  |  |
| 5.0 | NIST SP 800-53 R4 (Feb 2012 IPD) | HITRUST | January 28, 2013 |
|  | Texas Health & Safety Code § 181 (“TX HB |  |  |
|  | 300”) |  |  |
|  | HITECH (MU Stage 2) |  |  |
|  | CAQH Committee on Operating Rules for |  |  |
|  | Information Exchange (CORE) |  |  |
|  | NIST-CMS Harmonization |  |  |
|  | Implementation Requirement |  |  |
|  | Harmonization for HITRUST CSF 2013 |  |  |
|  | Certification-required Controls |  |  |
| 6.0 | NIST SP 800-53 R4 (Apr 2013 Final) | HITRUST | February 12, 2014 |
|  | CMS IS ARS v1.5 (2012) |  |  |
|  | Title 1 TX Admin. Code 390.2 (TX |  |  |
|  | Standards), including privacy |  |  |
|  | requirements to support |  |  |
|  | TX certification of the HIPAA Privacy |  |  |
|  | Rule |  |  |
|  | NIST-CMS Harmonization (Publication |  |  |
|  | Updates) |  |  |
|  |  |  |  |
| 6.1 | PCI-DSS v3.0 | HITRUST | April 25, 2014 |
|  | HIPAA Omnibus Rule |  |  |
|  | NIST Cybersecurity Framework v1 |  |  |
|  | ISO/IEC 27001:2013 |  |  |
|  | ISO/IEC 27002:2013 |  |  |

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| Version | Description of Change | Author | Date Published |
| 7.0 | CMS IS ARS v2 (2013) | HITRUST | January 31, 2015 |
|  | HIPAA Omnibus Rule (Rework – Updated |  |  |
|  | Category 13 – Privacy Practices) |  |  |
|  | NIST SP 800-53 R4 Appendix J |  |  |
|  | MARS-E v1.0 |  |  |
|  | IRS Pub 1075 (2014) |  |  |
| 8.0 | AICPA Trust Services Principles & Criteria | HITRUST | June 30, 2016 |
|  | for Security, Confidentiality & |  |  |
|  | Availability |  |  |
|  | HITRUST De-Identification Framework v1 |  |  |
|  | PCI DSS v3.1 |  |  |
|  | CSA CCM v3.0.1 |  |  |
|  | CIS CSC v6 |  |  |
|  | PMI DSP Principles & Framework v1 |  |  |
|  | Authoritative Source Mappings to the |  |  |
|  | Individual HITRUST CSF |  |  |
|  | Implementation Specification |  |  |
|  | (Available in MyCSF) |  |  |
| 8.1 | AICPA Trust Services Principles & Criteria | HITRUST | February 4, 2016 |
|  | for Security, Confidentiality & |  |  |
|  | Availability (2016 updates) |  |  |
|  | PCI DSS v3.2 |  |  |
|  | MARS-E v2 |  |  |
| 9.0 | DHS CRR | HITRUST | September 8, 2017 |
|  | EHNAC (Additional Requirements to |  |  |
|  | Support EHNAC Accreditation |  |  |
|  | Assessments) |  |  |
|  | Federal Register 21 CFR Part 11: |  |  |
|  | Electronic Records; Electronic |  |  |
|  | Signatures (Added Electronic Records) |  |  |
|  | FedRAMP |  |  |
|  | FFIEC IT Examination Handbook – |  |  |
|  | Information Security, Sep 2016 |  |  |
|  | NIST SP 800-63B (Updated Password |  |  |
|  | Requirements in Advance of NIST SP |  |  |
|  | 800-53 r5) |  |  |
|  | OCR Audit Protocol Phase II (Clarification |  |  |
|  | of HIPAA Security Requirements) |  |  |
| 9.1 | European Union GDPR (General Data | HITRUST |  |
|  | Protection Regulation) |  |  |
|  | Title 23 NYCRR 500 (New York |  |  |
|  | Department of Financial Services) |  |  |

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**Control Category: 0.0 - Information Security Management Program**

**Objective Name: 0.01 Information Security Management Program**

|  |  |
| --- | --- |
| **Control** | To implement and manage an Information Security Management Program. |
| **Objective:** |

**Control Reference: 00.a Information Security Management Program**

|  |  |
| --- | --- |
| **Control Specification:** | An Information Security Management Program (ISMP) shall be defined in terms of |
|  |
|  | the characteristics of the business and established and managed including |
|  | monitoring, maintenance and improvement. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; IT Organization and |
|  | Management Roles and Responsibilities; Monitoring; Planning; Policies and |
|  | Procedures; Risk Management and Assessments |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to HITRUST De-ID Framework Requirements |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |
| **Level 1 Implementation:** | An Information Security Management Program (ISMP) shall be documented that |
|  |
|  | addresses the overall Security Program of the organization. Management support |
|  | for the ISMP shall be demonstrated through signed acceptance or approval by |
|  | management. The ISMP shall consider all the HITRUST Control Objectives and |
|  | document any excluded control domains and the reasons for their exclusion. The |
|  | ISMP shall be updated at least annually or when there are significant changes in |
|  | the environment. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 23 NYCRR 500.02(a) |
| **Mapping:** | AICPA C1.7 |
|  |
|  | AICPA CC1.1 |
|  | AICPA CC1.2 |
|  | AICPA CC1.3 |
|  | AICPA CC3.1 |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  |  | AICPA CC3.2 |
|  |  | COBIT 4.1 DS5.2 |
|  |  | COBIT 5 APO13.02 |
|  |  | CRR V2016 CM:G1.Q1 |
|  |  | CRR V2016 CM:G2.Q1 |
|  |  | CRR V2016 CM:MIL2.Q1 |
|  |  | CRR V2016 CM:MIL2.Q4 |
|  |  | CRR V2016 SA:MIL2.Q2 |
|  |  | CRR V2016 TA:MIL3.Q1 |
|  |  | CRR V2016 VM:MIL3.Q1 |
|  |  | CSA CCM v3.0.1 GRM-04 |
|  |  | De-ID Framework v1 Privacy and Security Program: General |
|  |  | FFIEC IS v2016 A.1.4 |
|  |  | FFIEC IS v2016 A.2.2 |
|  |  | FFIEC IS v2016 A.2.3 |
|  |  | HIPAA § 164.308(a)(1)(i) |
|  |  | HIPAA § 164.308(a)(1)(ii)(A) |
|  |  | HIPAA § 164.308(a)(1)(ii)(B) |
|  |  | HIPAA § 164.308(a)(8) |
|  |  | HIPAA § 164.316(b)(1) |
|  |  | HIPAA § 164.316(b)(2)(iii) |
|  |  | ISO/IEC 27001:2013 4.4 |
|  |  | JCAHO IM.02.01.03, EP 1 |
|  |  | NIST Cybersecurity Framework ID.GV-1 |
|  |  | NIST Cybersecurity Framework ID.GV-4 |
|  |  | NIST SP 800-53 R4 PM-1 |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  | Multi-State |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2** | Subject to the EU GDPR |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall formally establish, implement, operate, monitor, review, |
|  | maintain and improve the ISMP. |
|  | The ISMP shall be formally documented, and such records shall be protected, |
|  | controlled and retained according to federal, state and organizational |
|  | requirements. |
|  | The ISMP shall incorporate a Plan, Do, Check, Act (PDCA) cycle for continuous |
|  | improvement in the ISMP, particularly as information is obtained that could |
|  | improve the ISMP, or indicates any shortcomings of the ISMP. |
|  |  |
| **Level 2** | 23 NYCRR 500.02(a) |
| **Control Standard** | 23 NYCRR 500.05 |
| **Mapping:** | CMSRs 2013v2 PM-1 (HIGH) |
|  |
|  | COBIT 4.1 DS5.5 |
|  | COBIT 5 DSS05.07 |
|  | CRR V2016 CM:MIL2.Q2 |
|  | FFIEC IS v2016 A.1.4 |
|  | FFIEC IS v2016 A.2.2 |
|  | FFIEC IS v2016 A.2.3 |
|  | FFIEC IS v2016 A.2.8 |
|  | FFIEC IS v2016 A.6.1 |
|  | GDPR Article 24(1) |
|  | GDPR Article 25(1) |
|  | GDPR Article 32(1) |
|  | HIPAA § 164.308(a)(1)(i) |
|  | HIPAA § 164.316(b)(1) |
|  | ISO 27799-2008 6.3 |
|  | ISO 27799-2008 6.4 |
|  | ISO 27799-2008 6.5 |
|  | ISO 27799-2008 6.6 |
|  | ISO 27799-2008 6.7 |
|  | ISO/IEC 27001:2005 4.1 |
|  | ISO/IEC 27001:2005 4.2.1 |
|  | ISO/IEC 27001:2005 4.2.2 |
|  | ISO/IEC 27001:2005 4.2.3 |
|  | ISO/IEC 27001:2005 4.2.4 |
|  | ISO/IEC 27001:2005 4.3.1 |
|  | ISO/IEC 27001:2005 4.3.2 |
|  | ISO/IEC 27001:2005 4.3.3 |
|  |  |

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ISO/IEC 27001:2013 10.1(c)

ISO/IEC 27001:2013 10.2

ISO/IEC 27001:2013 4.4

ISO/IEC 27001:2013 5.1(a)

ISO/IEC 27001:2013 5.2

ISO/IEC 27001:2013 5.3

ISO/IEC 27001:2013 6.1.1(c)

ISO/IEC 27001:2013 6.1.1(d)

ISO/IEC 27001:2013 6.1.1(E)

ISO/IEC 27001:2013 6.2(e)

ISO/IEC 27001:2013 7.1

ISO/IEC 27001:2013 7.4

ISO/IEC 27001:2013 7.5.1(a)

ISO/IEC 27001:2013 7.5.2

ISO/IEC 27001:2013 7.5.3

ISO/IEC 27001:2013 8.1

ISO/IEC 27001:2013 8.2

ISO/IEC 27001:2013 8.3

ISO/IEC 27001:2013 9.1

ISO/IEC 27001:2013 9.2

ISO/IEC 27001:2013 9.3(b)

ISO/IEC 27001:2013 9.3(f)

JCAHO IM.02.01.03, EP 1

MARS-E v2 PM-1

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework PR.IP-7

NIST SP 800-53 R4 PM-1

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  | Off-shore (outside U.S.) |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to 23 NYCRR 500 |

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|  |  |
| --- | --- |
| **Regulatory Factors:** | Subject to Banking Requirements |
|  | Subject to CRR V2016 |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Management shall provide evidence of its commitment to the establishment, |
|  | implementation, operation, monitoring, review, maintenance and improvement of |
|  | the ISMP. |
|  | The organization shall determine and provide the resources needed to establish, |
|  | implement, operate, monitor, review, maintain and improve an ISMP. |
|  | The organization shall ensure that all personnel who are assigned responsibilities |
|  | defined in the ISMP are competent to perform the required tasks. The |
|  | organization shall also ensure that all relevant personnel are aware of the |
|  | relevance and importance of their information security activities and how they |
|  | contribute to the achievement of the ISMP objectives. |
|  | The organization shall conduct internal ISMP audits at planned intervals to |
|  | determine the continuing suitability, adequacy and effectiveness of the program. |
|  | Management shall review the organization's ISMP at planned intervals (at least |
|  | once a year) to ensure its continuing suitability, adequacy and effectiveness. This |
|  | review shall include assessing opportunities for improvement and the need for |
|  | changes to the ISMP, including the information security policy and information |
|  | security objectives. The results of the reviews shall be clearly documented, and |
|  | records maintained. |
|  | The organization shall continually improve the effectiveness of the ISMP through |
|  | the use of the information security policy, information security objectives, audit |
|  | results, analysis of monitored events, corrective and preventive actions and |
|  | management review. |
|  |  |
| **Level 3** | 23 NYCRR 500.10(a)(1) |
| **Control Standard** | CMSRs 2013v2 PM-13 (HIGH) |
| **Mapping:** | CMSRs 2013v2 PM-2 (HIGH) |
|  |
|  | CMSRs 2013v2 PM-3 (HIGH) |
|  | CMSRs 2013v2 PM-4 (HIGH) |
|  | CMSRs 2013v2 PM-6 (HIGH) |
|  | CMSRs 2013v2 PM-6(HIGH) |
|  | CMSRs 2013v2 PM-9 (HIGH) |
|  | COBIT 4.1 DS5.5 |
|  | COBIT 5 DSS05.07 |
|  | CRR V2016 CM:G4.Q1 |
|  | FFIEC IS v2016 A.1.4 |
|  |  |

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FFIEC IS v2016 A.2.3

FFIEC IS v2016 A.2.8

HIPAA § 164.308(a)(1)(i)

HIPAA § 164.308(a)(8)

HIPAA § 164.316(b)(2)(iii)

IRS Pub 1075 v2014 9.3.18.1

ISO/IEC 27001:2005 5.1(a)

ISO/IEC 27001:2005 5.2.1

ISO/IEC 27001:2005 5.2.2

ISO/IEC 27001:2005 6

ISO/IEC 27001:2005 7.1

ISO/IEC 27001:2005 8.1

ISO/IEC 27001:2005 8.2

ISO/IEC 27001:2013 4.1

ISO/IEC 27001:2013 4.2(b)

ISO/IEC 27001:2013 5.1(c)

ISO/IEC 27001:2013 5.1(d)

ISO/IEC 27001:2013 5.1(e)

ISO/IEC 27001:2013 5.1(f)

ISO/IEC 27001:2013 5.1(g)

ISO/IEC 27001:2013 6.1.1

ISO/IEC 27001:2013 6.2

ISO/IEC 27001:2013 7.2

ISO/IEC 27001:2013 7.3(b)

ISO/IEC 27001:2013 7.3(C)

ISO/IEC 27001:2013 9.3

MARS-E v2 PM-13

MARS-E v2 PM-2

MARS-E v2 PM-3

MARS-E v2 PM-4

MARS-E v2 PM-6

MARS-E v2 PM-9

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.AT-2

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework PR.AT-4

NIST Cybersecurity Framework PR.AT-5

NIST Cybersecurity Framework PR.IP-7

NIST SP 800-53 R4 PM-13

NIST SP 800-53 R4 PM-2

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NIST SP 800-53 R4 PM-3

NIST SP 800-53 R4 PM-4

NIST SP 800-53 R4 PM-6

NIST SP 800-53 R4 PM-9

**Level EHNAC Implementation Requirements**

**Level EHNAC Implementation:**

The organization must determine if they are a Hybrid organization as defined by HIPAA § 164.103 and, if so, describe which parts of the organization are subject to HIPAA regulations and demonstrate how they are isolated from other portions of the business.

**Level FFIEC IS Implementation Requirements**

**Level FFIEC IS Implementation:**

Management implements metrics that demonstrate the extent to which the information security management program is implemented and whether the program is effective. The metrics implemented are timely, comprehensive, and actionable to improve the ISMPs effectiveness and efficiently.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization provides sufficient information about the program management controls and common controls (including specification of parameters for any assignment and selection operations either explicitly or by reference) to enable an implementation that is unambiguously compliant with the intent of the plan and a determination of the risk to be incurred if the plan is implemented as intended.

The organization has a formal information protection program based on an accepted industry framework that is reviewed and updated as needed, and the program plan is protected from unauthorized disclosure and modification.

**Level Title 23 NYCRR Part500 Implementation Requirements**

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**Level Title 23 NYCRR Part 500 Implementation:**

A covered entity required to comply with NYCRR 500 must implement a cybersecurity program that meets the requirements specified in NYCRR 500 or adopt a cybersecurity program maintained by an affiliated entity, provided the program satisfies the requirements specified in NYCRR 500.

All documentation and information relevant to the covered entitys cybersecurity program must be made available to the Financial Services Superintendent of New York upon request.

The covered entity must annually submit a written statement to the financial services superintendent of the state of New York certifying that the organization is compliant with the requirements set forth in document 23 NYCRR 500. The organization must maintain all records, schedules, and data supporting this certificate for a period of five years.

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**Control Category: 01.0 - Access Control**

**Objective Name: 01.01 Business Requirement for Access Control**

**Control**

**Objective:** To control access to information, information assets, and business processes

based on business and security requirements.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 01.a Access Control Policy** | |
|  |  |  |
|  | **Control Specification:** | An access control policy shall be established, documented, and reviewed based |
|  |  |
|  |  | on business and security requirements for access. |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Audit and Accountability; Authentication; Authorization; Policies and Procedures; |
|  |  | User Access |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | Access control rules shall account for and reflect the organization's policies for |
|  |  |
|  |  | information dissemination and authorization, and these rules shall be supported |
|  |  | by formal procedures and clearly defined responsibilities. Access control rules and |
|  |  | rights for each user or group of users shall be clearly stated. Access controls are |
|  |  | both logical and physical and these shall be considered together. Users and |
|  |  | service providers shall be given a clear statement of the business requirements to |
|  |  | be met by access controls. |
|  |  | Specifically, the access control program shall take account of the following: |
|  |  | 1. security requirements of individual business applications and business |
|  |  | units (e.g., separation/segregation within a hybrid entity); |
|  |  | 2. information dissemination and authorization (e.g., need-to-know, need to |
|  |  | share, and least privilege principles; security levels; and classification of |
|  |  | information.) |
|  |  | 3. relevant legislation and any contractual obligations regarding protection of |

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access to data or services;

1. standard user access profiles for common job roles in the organization;
2. requirements for formal authorization of access requests;
3. requirements for emergency access;
4. requirements for periodic review of access controls; and
5. removal of access rights.

The organization shall develop and disseminate/communicate a formal access control program (e.g., through policies and procedures) and review and update the program annually.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 21 CFR Part 11.10(d) |
| **Mapping:** | 23 NYCRR 500.02(b)(2) |
|  |
|  | AICPA CC1.2 |
|  | AICPA CC3.2 |
|  | CMSRs 2013v2 AC-1 (HIGH) |
|  | CMSRs 2013v2 AC2 (HIGH) |
|  | CRR V2016 CCM:G2.Q4 |
|  | CRR V2016 CCM:G2.Q8 |
|  | CRR V2016 CM:G2.Q10 |
|  | CSA CCM v3.0.1 IAM-02 |
|  | De-ID Framework v1 Access Control: General |
|  | FedRAMP AC-1 |
|  | FedRAMP AC-2 |
|  | FFIEC IS v2016 A.6.22(d) |
|  | FFIEC IS v2016 A.6.8(c) |
|  | HIPAA § 164. 312(a)(2)(ii) |
|  | HIPAA § 164.308(a)(3)(i) |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(4)(i) |
|  | HIPAA § 164.308(a)(4)(ii)(A) |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.312(a)(1) |
|  | IRS Pub 1075 v2014 9.3.1.1 |
|  | IRS Pub 1075 v2014 9.3.1.2 |
|  | ISO 27799-2008 7.8.1.2 |
|  | ISO/IEC 27002:2005 11.1.1 |
|  | ISO/IEC 27002:2013 9.1.1 |
|  | JCAHO IM.02.01.03, EP 1 |
|  | MARS-E v2 AC-1 |
|  | MARS-E v2 AC-2 |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST Cybersecurity Framework ID.GV-3 |

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NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework PR.AC-4

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AC-2

NIST SP 800-53 R4 MP-1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | All information related to the business applications and the risks the information is |
|  | facing shall be identified. The access control and information classification policies |
|  | of different systems and networks shall be consistent. |
|  | Access rights shall be managed in a distributed and networked environment |
|  | ensuring all types of connections available are recognized. Access control roles |
|  | (e.g., access request, access authorization, access administration) shall be |
|  | segregated. |
|  |  |
| **Level 2** | FFIEC IS v2016 A.6.8(c) |
| **Control Standard** | HIPAA § 164.308(a)(4)(i) |
| **Mapping:** | HIPAA § 164.308(a)(4)(ii)(B) |
|  |
|  | ISO 27799-2008 7.3.3.1 |
|  | ISO 27799-2008 7.8.1.2 |
|  | ISO/IEC 27002:2005 10.1.3 |
|  | ISO/IEC 27002:2005 11.1.1 |
|  | ISO/IEC 27002:2005 11.4.5 |
|  | ISO/IEC 27002:2013 9.1.1 |
|  | ISO/IEC 27002:2013 9.1.2 |
|  |  |

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ISO/IEC 27002:2013 9.2.1

ISO/IEC 27002:2013 9.2.2

ISO/IEC 27002:2013 9.2.3

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 AC-5

**Objective Name: 01.02 Authorized Access to Information Systems**

**Control**

**Objective:** To ensure authorized user accounts are registered, tracked and periodically validated to prevent unauthorized access to information systems.

**Control Reference: 01.b User Registration**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | There shall be a formal documented and implemented user registration and de- |
|  |  |
|  |  | registration procedure for granting and revoking access. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | System |
|  |  |  |
|  | **Topics:** | Authorization; Monitoring; Policies and Procedures; User Access |
|  |  |  |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  | Subject to State of Massachusetts Data Protection Act |
|  |  | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | The organization must maintain a current listing of all workforce members |
|  |  |
|  |  | (individuals, contractors and Business Associates) with access to PHI. User |
|  |  | registration and de-registration shall formally address establishing, activating, |
|  |  | modifying, reviewing, disabling and removing accounts. At a minimum, the |
|  |  | organization shall address how access requests to information systems are |
|  |  | submitted, how access to the information systems is granted, how requests to |
|  |  | access covered information are submitted, how access to covered information is |
|  |  | granted, how authorization and/or supervisory approvals are verified, and how a |

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|  |  |  |
| --- | --- | --- |
|  | workforce members level of access to covered information is verified. Account | |
|  | types shall be identified (individual, shared/group, system, application, | |
|  | guest/anonymous, emergency and temporary) and conditions for group and role | |
|  | membership shall be established. | |
|  | Access to the information systems shall be granted based on a valid need-to- | |
|  | know/need-to-share that is determined by assigned official duties and intended | |
|  | system usage. Such usage/access shall be granular enough to support patient | |
|  | (e.g., ePHI) or participant (e.g., PMI) consent (see CSF controls 06.d, 13.b thru | |
|  | 13.g) that has been captured by the organization and should limit access, use, or | |
|  | disclosure based on what is necessary to satisfy a particular purpose or carry out | |
|  | a function, or to provide separation/segregation between business units (e.g., | |
|  | within a hybrid entity). Access granted shall satisfy all personnel security criteria. | |
|  | Proper identification shall be required for requests to establish information system | |
|  | accounts and approval of all such requests. Guest/anonymous, shared/group, | |
|  | emergency and temporary accounts shall be specifically authorized and use | |
|  | monitored. Unnecessary accounts shall be removed, disabled or otherwise | |
|  | secured. Account managers shall be notified when users are terminated or | |
|  | transferred, their information system usage or need-to-know/need-to-share | |
|  | changes, or when accounts (including shared/group, emergency, and temporary | |
|  | accounts) are no longer required. Shared/group account credentials shall be | |
|  | modified when users are removed from the group. | |
|  | The access control procedure for user registration and de-registration shall: | |
|  | 1. | communicate password procedures and policies to all users who have |
|  |  | system access |
|  | 2. | check that the user has authorization from the system owner for the use |
|  |  | of the information system or service; |
|  | 3. | separate approval for access rights from management; |
|  | 4. | check that the level of access granted is appropriate to the business |
|  |  | purpose and is consistent with organizational security policy (e.g., it is |
|  |  | consistent with sensitivity and risks associated with the information and/or |
|  |  | information system, it does not compromise segregation of duties); |
|  | 5. | give users a written statement of their access rights; |
|  | 6. | require users to sign statements indicating that they understand the |
|  |  | conditions of access; |
|  | 7. | ensure service providers do not provide access until authorization |
|  |  | procedures have been completed; |
|  | 8. | ensure default accounts are removed and/or renamed; |
|  | 9. | maintain a formal record of all persons registered to use the service; |
|  | 10. | remove or block critical access rights of users who have changed roles or |
|  |  | jobs or left the organization immediately and remove or block non-critical |
|  |  | access within twenty-four (24) hours; and |
|  | 11. | automatically remove or disable accounts that have been inactive for a |
|  |  | period of sixty (60) days or more. |
|  |  | |
| **Level 1** | 201 CMR 17.04(2)(a) | |
| **Control Standard** | 201 CMR 17.04(2)(b) | |
| **Mapping:** | 201 CMR 17.04(2)(d) | |
|  |
|  | 21 CFR Part 11.10(d) | |
|  | 21 CFR Part 11.10(g) | |
|  |  |  |

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AICPA CC5.1

AICPA CC5.2

AICPA CC5.4

AICPA CC5.5

CIS CSC v6 16.2

CMSRs 2013v2 AC-2 (HIGH)

CMSRs 2013v2 AC-2(3) (HIGH)

CMSRs 2013v2 IA-1 (HIGH)

CMSRs 2013v2 IA-4 (HIGH)

CMSRs 2013v2 IA-5 (HIGH)

COBIT 4.1 DS5.3

CSA CCM v3.0.1 IAM-09

FedRAMP AC-2

FedRAMP AC-2(10)

FedRAMP AC-2(3)

FedRAMP AC-2(4)

FedRAMP AC-2(9)

FedRAMP IA-1

FedRAMP IA-4

FedRAMP IA-5

FedRAMP PS-4

FFIEC IS v2016 A.6.20(a)

FFIEC IS v2016 A.6.20(b)

FFIEC IS v2016 A.6.20(e)

FFIEC IS v2016 A.6.27(c)

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(3)(ii)(B)

HIPAA § 164.308(a)(3)(ii)(C)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.308(a)(4)(ii)(A)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(a)(4)(ii)(C)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.308(a)(5)(ii)(D)

HIPAA § 164.310(a)(2)(iii)

HIPAA § 164.312(a)(2)(i)

HIPAA § 164.312(a)(2)(ii)

HIPAA § 164.312(d)

IRS Pub 1075 v2014 9.3.1.2

IRS Pub 1075 v2014 9.3.7.4

IRS Pub 1075 v2014 9.3.7.5

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ISO/IEC 27001:2013 9.2.1

JCAHO IM.02.01.03, EP 5

MARS-E v2 AC-2

MARS-E v2 AC-2(3)

MARS-E v2 IA-1

MARS-E v2 IA-5

NIST Cybersecurity Framework DE.CM-3

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 AC-2

NIST SP 800-53 R4 AC-2(3)

NIST SP 800-53 R4 AC-21

NIST SP 800-53 R4 AC-5

NIST SP 800-53 R4 AU-6

NIST SP 800-53 R4 IA-1

NIST SP 800-53 R4 IA-5

PCI DSS v3.2 8.1.2

PCI DSS v3.2 8.1.3

PCI DSS v3.2 8.1.4

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework PR.AC-4

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Internet: Yes |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to PCI Compliance |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall require that the registration process to receive hardware |
|  |  | administrative tokens and credentials used for two (2)-factor authentication be |
|  |  | verified in person before a designated registration authority with authorization by a |
|  |  | designated organizational official (e.g., a supervisor or other individual defined in |
|  |  | an applicable security plan). |
|  |  | Organizations shall not use group, shared or generic accounts and passwords. |
|  |  | Identity verification of the individual is required prior to establishing, assigning or |
|  |  | certifying an individuals electronic signature or any element of such signature. |
|  |  |  |

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**Level 2**

**Control Standard**

**Mapping:**

201 CMR 17.04(1)(d)

21 CFR Part 11.10(d)

21 CFR Part 11.10(g)

21 CFR Part 11.100(b)

CMSRs 2013v2 IA-5(3) (HIGH)

COBIT 4.1 DS5.4

COBIT 5 DSS05.03

COBIT 5 DSS05.04

CSA CCM v3.0.1 IAM-08

FedRAMP IA-5

FedRAMP IA-5(3)

FFIEC IS v2016 A.6.20(d)

ISO 27799-2008 7.8.2.1

ISO/IEC 27002:2005 11.2.1

ISO/IEC 27002:2013 9.2.1

ISO/IEC 27002:2013 9.2.2

ISO/IEC 27002:2013 A 11.5.2

JCAHO IM.02.01.03, EP 5

MARS-E v2 IA-5(3)

NIST Cybersecurity Framework PR.AC-1

NIST SP 800-53 R4 IA-5(3)

NRS 603A.215.1

PCI DSS v3.2 8.5

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization shall employ automated mechanisms to support the |
|  |  | management of information system accounts. |
|  |  | In addition to assigning a unique ID and password, at least one (1) of the following |
|  |  | methods shall be employed to authenticate all users: |
|  |  | 1. token devices (e.g., SecureID, certificates, or public key); or |
|  |  | 2. biometrics. |

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|  |  |
| --- | --- |
|  | The organization shall automatically disable emergency accounts within twenty- |
|  | four (24) hours and temporary accounts with a fixed duration not to exceed thirty |
|  | (30) days. |
|  |  |
| **Level 3** | CMSRs 2013v2 AC-2(1) (HIGH) |
| **Control Standard** | CMSRs 2013v2 AC-2(2) (HIGH) |
| **Mapping:** | FedRAMP AC-2(1) |
|  |
|  | FedRAMP AC-2(2) |
|  | HIPAA § 164.312(a)(2)(i) |
|  | HIPAA § 164.312(a)(2)(ii) |
|  | JCAHO IM.02.01.03, EP 5 |
|  | MARS-E v2 AC-2(1) |
|  | MARS-E v2 AC-2(2) |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST SP 800-53 R4 AC-2(1) |
|  | NIST SP 800-53 R4 AC-2(2) |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 8.2 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization disables accounts of users posing a significant risk within sixty (60) minutes of discovery of the risk.

Disabled accounts shall be deleted during the annual re-certification process.

Automated mechanisms support the management of information system accounts, including the disabling of emergency accounts within 24 hours and temporary accounts within a fixed duration not to exceed three hundred sixty-five (365) days.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** Automated mechanisms support the management of information system accounts, including the disabling of emergency accounts within 24 hours and

temporary accounts within a fixed duration not to exceed thirty (30) days.

**Level HIX Implementation Requirements Level HIX Implementation:**

Disabled accounts shall be deleted during the annual re-certification process.

**Control Reference: 01.c Privilege Management**

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|  |  |
| --- | --- |
| **Control Specification:** | The allocation and use of privileges to information systems and services shall be |
|  |
|  | restricted and controlled. Special attention shall be given to the allocation of |
|  | privileged access rights, which allow users to override system controls. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authorization; User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to Joint Commission Accreditation |
| **Regulatory Factors:** | Subject to State of Massachusetts Data Protection Act |
|  | Subject to Texas Health and Safety Code |
|  |  |
| **Level 1 Implementation:** | The allocation of privileges for all systems and system components shall be |
|  |
|  | controlled through a formal authorization process. The access privileges |
|  | associated with each system product (e.g., operating system, database |
|  | management system and each application) and the users to which they need to |
|  | be allocated shall be identified. Privileges shall be allocated to users on a need-to- |
|  | use basis and on an event-by-event basis in line with the access control policy |
|  | (i.e. the minimum requirement for their functional role, e.g., user or administrator, |
|  | only when needed). |
|  | At a minimum, the organization explicitly authorizes access to the following list of |
|  | security functions (deployed in hardware, software, and firmware) and security- |
|  | relevant information: |
|  | 1. Setting/modifying audit logs and auditing behavior; |
|  | 2. Setting/modifying boundary protection system rules; |
|  | 3. Configuring/modifying access authorizations (i.e., permissions, |
|  | privileges); |
|  | 4. Setting/modifying authentication parameters; and |
|  | 5. Setting/modifying system configurations and parameters. |
|  | An authorization process and a record of all privileges allocated shall be |
|  | maintained. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 201 CMR 17.04(2)(a) |
| **Mapping:** | 21 CFR Part 11.10(d) |
|  |
|  | 21 CFR Part 11.10(g) |
|  | 23 NYCRR 500.07 |
|  | AICPA CC5.1 |
|  | CMSRs 2013v2 AC-6 (HIGH) |
|  |  |

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CMSRs 2013v2 AC-6(1) (HIGH)

CMSRs 2013v2 AC-6.1 (HIGH)

COBIT 4.1 DS5.4

COBIT 5 DSS05.04

CRR V2016 AM:G5.Q5

CRR V2016 CCM:G2.Q4

CRR V2016 CM:G2.Q10

CSA CCM v3.0.1 IAM-04

CSA CCM v3.0.1 IAM-09

De-ID Framework v1 Identification and Authentication (Application-level): Authentication Policy

FedRAMP AC-6

FedRAMP AC-6(1)

FFIEC IS v2016 A.6.20(d)

FFIEC IS v2016 A.6.21(a)

FFIEC IS v2016 A.6.22(b)

FFIEC IS v2016 A.6.29

FFIEC IS v2016 A.6.8(c)

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.308(a)(4)(ii)(A)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(a)(4)(ii)(C)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(a)(1)

HIPAA § 164.312(a)(2)(i)

HIPAA § 164.312(a)(2)(ii)

IRS Pub 1075 v2014 9.3.1.6

ISO/IEC 27002:2005 11.2.2

ISO/IEC 27002:2005 11.2.2(b)

ISO/IEC 27002:2013 9.2.3

ISO/IEC 27002:2013 9.2.3(b)

JCAHO IM.02.01.03, EP 5

MARS-E v2 AC-6

MARS-E v2 AC-6(1)

NIST Cybersecurity Framework PR.AC-4

NIST SP 800-53 R4 AC-3

NIST SP 800-53 R4 AC-6

NIST SP 800-53 R4 AC-6(1)

PCI DSS v3.2 7.1

PCI DSS v3.2 7.1.1

PCI DSS v3.2 7.1.4

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PCI DSS v3.2 7.2.1

PCI DSS v3.2 7.2.2

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Internet: Yes |
| **System Factors:** | Number of Interfaces: 25 to 75 |
|  | Number of users of the system: 500 to 5,500 |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Role-based access control shall be implemented and capable of mapping each |
|  | user to one or more roles, and each role to one or more system functions. |
|  | The development and use of system routines shall be promoted to avoid the need |
|  | to grant privileges to users. The development and use of programs which avoid |
|  | the need to run with elevated privileges shall be promoted. |
|  | Elevated privileges shall be assigned to a different user ID from those used for |
|  | normal business use. All users shall access privileged services in a single role |
|  | (users registered with more than one (1) role shall designate a single role during |
|  | each system access session). The use of system administration privileges (any |
|  | feature or facility of an information system that enables the user to override |
|  | system or application controls) shall be minimized. Access to privileged functions |
|  | (e.g., system-level software, administrator tools, scripts, utilities) deployed in |
|  | hardware, software, and firmware shall be restricted. Security relevant information |
|  | shall be restricted to explicitly authorized individuals. |
|  | The organization shall facilitate information sharing by enabling authorized users |
|  | to determine whether access authorizations assigned to business partners match |
|  | the access restrictions on information for specific circumstances in which user |
|  | discretion is allowed. The organization also employs manual processes or |
|  | automated mechanisms to assist users in making information |
|  | sharing/collaboration decisions. |
|  | The access control system for the system components storing, processing or |
|  | transmitting covered information shall be set with a default "deny-all" setting. |
|  |  |
| **Level 2** | 21 CFR Part 11.10(d) |
| **Control Standard** | CMSRs 2013v2 AC-10 (HIGH) |
| **Mapping:** | CMSRs 2013v2 AC-2 (HIGH) |
|  |
|  | CMSRs 2013v2 AC-21 |
|  | CMSRs 2013v2 AC-6 (HIGH) |
|  | CMSRs 2013v2 AC-6(1) (HIGH) |
|  |  |

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CMSRs 2013v2 AC-6(2) (HIGH)

De-ID Framework v1 Access Control: Access Policies

FedRAMP AC-2

FedRAMP AC-21

FedRAMP AC-6

FedRAMP AC-6(1)

FedRAMP AC-6(2)

FFIEC IS v2016 A.6.20(d)

FFIEC IS v2016 A.6.22(b)

FFIEC IS v2016 A.6.27(b)

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.312(a)(1)

IRS Pub 1075 v2014 9.3.1.16

IRS Pub 1075 v2014 9.3.1.2

IRS Pub 1075 v2014 9.3.1.6

ISO 27799-2008 7.8.2.2

ISO/IEC 27002:2005 11.2.2

ISO/IEC 27002:2005 11.2.2(d)

ISO/IEC 27002:2005 11.2.2(e)

ISO/IEC 27002:2005 11.2.2(f)

ISO/IEC 27002:2013 9.1.1

ISO/IEC 27002:2013 9.2.3

JCAHO IM.02.01.03, EP 5

MARS-E v2 AC-10

MARS-E v2 AC-2

MARS-E v2 AC-6

MARS-E v2 AC-6(1)

MARS-E v2 AC-6(2)

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 AC-10

NIST SP 800-53 R4 AC-2

NIST SP 800-53 R4 AC-21

NIST SP 800-53 R4 AC-3(7)

NIST SP 800-53 R4 AC-6

NIST SP 800-53 R4 AC-6(1)

NIST SP 800-53 R4 AC-6(2)

PCI DSS v3.2 7.1.2

PCI DSS v3.2 7.1.3

PCI DSS v3.2 7.2

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PCI DSS v3.2 7.2.3

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 3** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 3** | Number of Interfaces: Greater than 75 |
| **System Factors:** | Number of transactions per day: Greater than 85,000 |
|  | Number of users of the system: Greater than 5,500 |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall limit authorization to privileged accounts on information |
|  | systems to a pre-defined subset of users and shall track and monitor privileged |
|  | role assignments for anomalous behavior. The organization shall audit the |
|  | execution of privileged functions on information systems and ensure information |
|  | systems prevent non-privileged users from executing privileged functions to |
|  | include disabling, circumventing, or altering implemented security safeguards |
|  | (e.g., IDS/IPS or malicious code protection mechanisms). |
|  | All file system access not explicitly required for system, application, and |
|  | administrator functionality shall be disabled. |
|  | Access to all hypervisor management functions or administrative consoles for |
|  | systems hosting virtualized systems shall be restricted to personnel based upon |
|  | the principle of least privilege and supported through technical controls (e.g., two- |
|  | factor authentication, audit trails, IP address filtering, firewalls, and TLS |
|  | encapsulated communications to the administrative consoles). |
|  | Contractors shall be provided with minimal system and physical access, and shall |
|  | agree to and support the organization's security requirements. The contractor |
|  | selection process shall assess the contractor's ability to adhere to and support the |
|  | organization's security policy and procedures. |
|  | The organization ensures only authorized users are permitted to access those |
|  | files, directories, drives, workstations, servers, network shares, ports, protocols, |
|  | and services that are expressly required for the performance of the users' job |
|  | duties. |
|  |  |
| **Level 3** | CIS CSC v6 3.4 |
| **Control Standard** | CIS CSC v6 5.1 |
| **Mapping:** | CIS CSC v6 5.2 |
|  |
|  | CIS CSC v6 5.8 |
|  | CIS CSC v6 5.9 |
|  | CMSRs 2013v2 AC-6 (HIGH) |
|  |  |

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CMSRs 2013v2 AC-6(10) (HIGH)

CMSRs 2013v2 AC-6(3) (HIGH)

CMSRs 2013v2 AC-6(5) (HIGH)

CMSRs 2013v2 AC-6(9) (HIGH)

CMSRs 2013v2 CM-7 (HIGH)

CSA CCM v3.0.1 IVS-11

FedRAMP AC-6

FedRAMP AC-6(10)

FedRAMP AC-6(5)

FedRAMP AC-6(9)

FedRAMP CM-7

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.312(a)(1)

IRS Pub 1075 v2014 9.3.1.6

IRS Pub 1075 v2014 9.3.10.6

IRS Pub 1075 v2014 9.3.5.7

IRS Pub 1075 v2014 9.4.11

IRS Pub 1075 v2014 9.4.2 (E.10)

IRS Pub 1075 v2014 9.4.9

ISO/IEC 27002:2005 11.2.2

ISO/IEC 27002:2005 8.1.3

ISO/IEC 27002:2013 9.2.3

JCAHO IM.02.01.03, EP 5

MARS-E v2 AC-6

MARS-E v2 AC-6(10)

MARS-E v2 AC-6(5)

MARS-E v2 AC-6(9)

MARS-E v2 CM-7

MARS-E v2 SI-3(3)

MARS-E v2 SI-4(6)

NIST Cybersecurity Framework DE.CM-3

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.RM-1

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 AC-6

NIST SP 800-53 R4 AC-6(10)

NIST SP 800-53 R4 AC-6(5)

NIST SP 800-53 R4 AC-6(9)

NIST SP 800-53 R4 CM-7

NRS 603A.215.1

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**Level CIS Implementation Requirements Level CIS Implementation:**

Remote access to privileged functions, e.g., server, workstation and network device administration, is performed over secure channels. Protocols such as telnet and others that do not actively support strong encryption are only used when performed over a secondary encryption channel, e.g., SSL, TLS or IPSEC (see 09.s).

Access to all hypervisor management functions or administrative consoles for systems hosting virtualized systems shall be restricted to personnel based upon the principle of least privilege and supported through technical controls (e.g., two-factor authentication, audit trails, IP address filtering, firewalls, and TLS encapsulated communications to the administrative consoles).

The organization uses automated tools to inventory all administrative accounts and validates that each person with administrative privileges on desktops, laptops, and servers is authorized by a senior executive.

Administrators should be required to access a system using a fully logged and non-administrative account. Then, once logged on to the machine without administrative privileges, the administrator should transition to administrative privileges using tools such as Sudo on Linux/UNIX, RunAs on Windows, and other similar facilities for other types of systems.

Administrators shall use a dedicated machine for all administrative tasks or tasks requiring elevated access. This machine shall be isolated from the organization's primary network and not be allowed Internet access. This machine shall not be used for reading email, composing documents, or surfing the Internet.

Contractors shall be provided with minimal system and physical access, and shall agree to and support the organization's security requirements. The contractor selection process shall assess the contractor's ability to adhere to and support the organization's security policy and procedures.

**Level CMS Implementation Requirements Level CMS Implementation:**

All system and removable media boot access shall be disabled unless it is explicitly authorized by the organizational CIO for compelling operational needs. If system and removable media boot access is authorized, boot access is password protected.

The organization authorizes network access to privileged commands only for defined, compelling operational needs (defined in the applicable security plan) and documents the rationale for such access in the security plan for the information system.

**Level FedRAMP Implementation Requirements**

|  |  |
| --- | --- |
| **Level FedRAMP** | A role-based access approach is used to establish and administer privileged user |
| **Implementation:** |

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accounts, including application-specific privileged user accounts based on the responsibilities associated with the use of each application, such roles are monitored, and actions are taken when privileged roles assignments are no longer appropriate.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Business roles and rules shall be imbedded at either the authentication level or application level. In either case, the agency must ensure that only authorized employees or contractors (as allowed by statute) of the agency receiving the information have access to FTI.

The agency must restrict the sharing/re-disclosure of FTI to only those authorized in IRC 6103 and as approved by the Office of Safeguards.

The organization shall password-protect system initialization (boot) settings.

The agency must restrict the use of information system media (e.g., diskettes, magnetic tapes, external/removable hard drives, flash/thumb drives, CDs, DVDs) on information systems that receive, process, store, or transmit FTI using physical or automated controls.

Multifunction Device (MFD) access enforcement controls must be configured correctly, including access controls for file shares, administrator and non-administrator privileges, and document retention functions.

To use FTI in a SAN environment, the agency must ensure:

1. access controls are implemented and strictly enforced for all SAN components to limit access to disks containing FTI to authorized users; and
2. fibre channel devices must be configured to authenticate
   1. other devices with which they communicate in the SAN and
   2. administrator connections.

The least privilege principle must be strictly enforced in a virtualized environment.

To use a virtual environment that receives, processes, stores, or transmits FTI, programs that control the hypervisor should be secured and restricted to authorized administrators only.

**Level HIE Implementation Requirements Level HIE Implementation:**

HIEs shall, for all employees and for all employees of connecting organizations, define and assign roles to each individual with access to the HIE. The roles shall be based on the individual's job function and responsibilities. The roles shall specify the type of access and level of access.

**Level HIX Implementation Requirements**

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**Level HIX Implementation:**

A role-based access approach is used to establish and administer privileged user accounts, including application-specific privileged user accounts based on the responsibilities associated with the use of each application, and such roles are monitored.

The information system does not release information outside of the established system boundary unless the receiving organization provides appropriate security safeguards, and the safeguards are used to validate the appropriateness of the information designated for release consistent with the requirements specified in 45 C.F.R. § 155.260(b)(2).

**Level PCI Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| **Level PCI Implementation:** |  | A service provider shall protect each organization's hosted environment and data | |
|  |
|  |  |
|  |  | by: |  |
|  |  | 1. | ensuring that each organization only runs processes that only have |
|  |  |  | access to that organization's cardholder data environment; and |
|  |  | 2. | restricting each organization's access and privileges to only its own |
|  |  |  | cardholder data environment. |
|  |  |  |  |

|  |  |
| --- | --- |
| **Control Reference: 01.d User Password Management** | |
|  |  |
| **Control Specification:** | Passwords shall be controlled through a formal management process. |
|  |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authentication; Authorization; Cryptography; User Access; Password |
|  | Management |
|  |  |

**Level 1 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** | Subject to State of Massachusetts Data Protection Act |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | The following controls shall be implemented to maintain the security of |
|  |  |
|  |  | passwords: |
|  |  | 1. passwords shall be prohibited from being displayed when entered; |
|  |  | 2. passwords shall be changed whenever there is any indication of possible |
|  |  | system or password compromise; and |
|  |  | 3. user identity shall be verified before performing password resets. |

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|  |  |  |
| --- | --- | --- |
|  | The allocation of passwords shall be controlled through a formal management | |
|  | process: | |
|  | 1. | the use of third parties or unprotected (clear text) electronic mail |
|  |  | messages shall be avoided; |
|  | 2. | users shall acknowledge receipt of passwords; |
|  | 3. | default vendor passwords shall be altered following installation of systems |
|  |  | or software; |
|  | 4. | temporary passwords shall be changed at the first log-on; |
|  | 5. | temporary passwords shall be given to users in a secure manner; |
|  | 6. | maintain a list of commonly-used, expected or compromised passwords, |
|  |  | and update the list at least every 180 days and when organizational |
|  |  | passwords are suspected to have been compromised directly or |
|  |  | indirectly; |
|  | 7. | verify, when users create or update passwords, that the passwords are |
|  |  | not found on the organization-defined list of commonly-used, expected, or |
|  |  | compromised passwords; |
|  | 8. | transmit only cryptographically-protected passwords; |
|  | 9. | store passwords using an approved hash algorithm and salt, preferably |
|  |  | using a keyed hash; |
|  | 10. | require immediate selection of a new password upon account recovery; |
|  | 11. | allow user-selection of long passwords and passphrases, including |
|  |  | spaces and all printable characters; and |
|  | 12. | employ automated tools to assist the user in selecting strong passwords |
|  |  | and authenticators. |
|  | Alternatively, passwords/phrases must have a strength (entropy) at least | |
|  | equivalent to the parameters specified above. | |
|  | Password policies, applicable to mobile devices, shall be documented and | |
|  | enforced through technical controls on all company devices or devices approved | |
|  | for BYOD usage, and shall prohibit the changing of password/PIN lengths and | |
|  | authentication requirements. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 201 CMR 17.04(1)(b) | |
| **Mapping:** | AICPA CC5.1 | |
|  |
|  | AICPA CC5.3 | |
|  | CCM v3.0.1 MOS-16 | |
|  | CMSRs 2013v2 IA-5 (HIGH) | |
|  | CSA CCM v3.0.1 IAM-12 | |
|  | CSA CCM v3.0.1 MOS-16 | |
|  | FedRAMP IA-5 | |
|  | FedRAMP IA-5(4) | |
|  | FFIEC IS v2016 A.6.22(a) | |
|  | HIPAA § 164.308(a)(5)(ii)(D) | |
|  | HITRUST SME | |
|  | IRS Pub 1075 v2014 9.3.1.16 | |
|  |  |  |

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ISO/IEC 27002:2005 11.2.3

ISO/IEC 27002:2005 11.3.1

ISO/IEC 27002:2005 11.5.1

ISO/IEC 27002:2013 9.2.4

ISO/IEC 27002:2013 9.3.1

ISO/IEC 27002:2013 9.4.2

ISO/IEC 27002:2013 9.4.3

MARS-E v2 IA-5

NIST Cybersecurity Framework PR.AC-1

NIST SP 800-53 R4 IA-5

NIST SP 800-53 R4 IA-5(1)

NIST SP 800-53 R4 IA-5(h)

NIST SP 800-53 R4 IA-6

NRS 603A.215.1

PCI DSS v3.2 2.1

PCI DSS v3.2 8.2.6

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 1 CORE 153: Eligibility and Benefits Connectivity Rule v1.1.0 Subsection 5.1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Internet: Yes |
|  | **System Factors:** | Number of Interfaces: 25 to 75 |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The following controls shall be implemented to maintain the security of |
|  |  | passwords: |
|  |  | 1. passwords shall be protected from unauthorized disclosure and |
|  |  | modification when stored and transmitted; |
|  |  | 2. passwords shall not be included in any automated log-on process (e.g., |
|  |  | stored in a macro or function key); |
|  |  | 3. all passwords shall be encrypted during transmission and storage on all |
|  |  | system components; |
|  |  | 4. users shall sign a statement to keep personal passwords confidential and |
|  |  | to keep group passwords solely within the members of the group; and |
|  |  | 5. temporary passwords shall be unique to an individual and shall not be |
|  |  | guessable. |

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|  |  |
| --- | --- |
|  | Persons who use electronic signatures based upon use of identification codes in |
|  | combination with passwords shall employ controls to ensure their security and |
|  | integrity. Such controls shall include: |
|  | 1. maintaining the uniqueness of each combined identification code and |
|  | password, such that no two (2) individuals have the same combination of |
|  | identification code and password. |
|  | 2. ensuring that identification code and password issuances are periodically |
|  | checked, recalled, or revised (e.g., to cover such events as password |
|  | aging); |
|  | 3. following loss management procedures to electronically de-authorize lost, |
|  | stolen, missing or otherwise potentially compromised tokens, cards and |
|  | other devices that bear or generate identification code or password |
|  | information, and to issue temporary or permanent replacements using |
|  | suitable, rigorous controls; |
|  | 4. use of transaction safeguards to prevent unauthorized use of passwords |
|  | and/or identification codes, and to detect and report in an immediate and |
|  | urgent manner any attempts at their unauthorized use to the system |
|  | security unit, and, as appropriate, to organization management; and |
|  | 5. initial and periodic testing of devices, such as tokens or cards, that bear |
|  | or generate identification code or password information to ensure that |
|  | they function properly and have not been altered in an unauthorized |
|  | manner. |
|  | Electronic signatures that are not based upon biometrics shall: |
|  | 1. Employ at least two distinct identification components (i.e., user ID and |
|  | password). When an individual executes a series of signings during a |
|  | single continuous period of controlled system access, the first signing |
|  | shall be executed using all electronic signature components; subsequent |
|  | signings shall be executed using at least one electronic signature |
|  | component. When an individual executes one or more signings not |
|  | performed during a single, continuous period of controlled system access, |
|  | each signing shall be executed using all of the electronic signature |
|  | components. |
|  | 2. Be administered and executed to ensure that attempted use of an |
|  | individuals electronic signature by anyone other than its genuine owner |
|  | requires collaboration of two or more individuals (i.e., system |
|  | administrator and supervisor). |
|  |  |
| **Level 2** | 21 CFR Part 11.200(a) |
| **Control Standard** | 21 CFR Part 11.3 |
| **Mapping:** | 21 CFR Part 11.300 |
|  |
|  | CIS CSC v6 5.3 |
|  | CMSRs 2013v2 IA-5 (HIGH) |
|  | CMSRs 2013v2 IA-5(1) (HIGH) |
|  | FedRAMP IA-5 |
|  | FedRAMP IA-5(6) |
|  | FedRAMP IA-5(7) |
|  | HIPAA § 164.308(a)(5)(ii)(D) |
|  |  |

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IRS Pub 1075 v2014 9.3.7.5

ISO 27799-2008 7.8.2.3

ISO/IEC 27002:2005 11.2.3

ISO/IEC 27002:2013 9.2.4

MARS-E v2 IA-5

MARS-E v2 IA-5(7)

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 IA-2

NIST SP 800-53 R4 IA-5

NIST SP 800-53 R4 IA-5(1)

NIST SP 800-53 R4 IA-5(7)

NRS 603A.215.1

PCI DSS v3.2 8.2.1

**Level CIS Implementation Requirements Level CIS Implementation:**

Before deploying any new devices in a networked environment, the organization changes all default passwords for applications, operating systems, routers, firewalls, wireless access points, and other systems to have values consistent with administration-level accounts.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization enforces the following minimum password requirements (User/Privileged/Process [acting on behalf of a User]):

1. Minimum Password Age = 1/1/1;
2. Maximum Password Age = 60/60/120;
3. Minimum Password Length = 8/8/15;
4. Password Complexity = 1/1/3 (minimum one (1) character [three (3) for a process] from the four (4) character categories (A-Z, a-z, 0-9, special characters); and
5. Password History Size = 6/6/12.

PIV compliant access cards are valid for no longer than five (5) years; and PKI certificates issued in accordance with the Federal PKI Common Policy are valid for no longer than three (3) years.

Organizations shall ensure non-standard account-authenticators are managed in accordance with the CMS Risk Management Handbook (RMH), Volume III, Standard 4.3, Non-Standard Authenticator Management.

**Level FedRAMP Implementation Requirements**

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**Level FedRAMP Implementation:**

The organization enforces the following minimum password requirements:

1. Minimum Password Age = 1/1;
2. Maximum Password Age = 60/60;
3. Minimum Password Length = 12 characters;
4. Password Complexity =at least one of each of upper-case letters, lower-case letters, numbers, and special characters; and
5. Password History Size = 6
6. At least one character to be changed.
7. Prohibit password reuse for twenty-four (24) hours

The organization employs only information technology products on the FIPS 201-approved products list for Personal Identity Verification (PIV) capability implemented within organizational information systems.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The information system must, for password-based authentication:

1. Enforce password minimum lifetime restriction of one (1) day;
2. Enforce non-privileged account passwords to be changed at least every ninety (90) days; and
3. Enforce privileged account passwords to be changed at least every sixty (60) days.

**Level HIX Implementation Requirements Level HIX Implementation:**

PKI certificates issued in accordance with the Federal PKI Common Policy are valid for no longer than three (3) years.

The organization enforces the following minimum password requirements (User/Privileged/Process [acting on behalf of a User]):

1. Minimum Password Age = 1/1/1;
2. Maximum Password Age = 60/60/180;
3. Minimum Password Length = 8/8/15;
4. Password Complexity = 1/1/3 (minimum one (1) character [three (3) for a process] from the four (4) character categories (A-Z, a-z, 0-9, special characters); and
5. Password History Size = 24/24/24.

**Level PCI Implementation Requirements Level PCI Implementation:**

Passwords/passphrases require a minimum length of at least seven (7) characters, and contain both numeric and alphabetic characters. Alternatively, the passwords/ passphrases must have complexity and strength at least equivalent to the parameters specified above.

The organization:

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1. changes user passwords/passphrases at least once every 90 days;
2. does not allow an individual to submit a new password/passphrase that is the same as any of the last four passwords/passphrases he or she has used; and
3. sets passwords/passphrases for first-time use and upon reset to a unique value for each user, and change immediately after the first use.

**Control Reference: 01.e Review of User Access Rights**

|  |  |
| --- | --- |
| **Control Specification:** | All access rights shall be regularly reviewed by management via a formal |
|  |
|  | documented process. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Audit and Accountability; Monitoring; User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to State of Massachusetts Data Protection Act |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |
| **Level 1 Implementation:** | The following procedures shall be carried out to ensure the regular review of |
|  |
|  | access rights by management: |
|  | 1. user's access rights shall be reviewed after any changes, such as |
|  | promotion, demotion, or termination of employment, or other arrangement |
|  | with a workforce member ends; and |
|  | 2. user's access rights shall be reviewed and re-allocated when moving from |
|  | one employment or workforce member arrangement to another within the |
|  | same organization. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 201 CMR 17.03(2)(h) |
| **Mapping:** | 21 CFR Part 11.10(d) |
|  |
|  | AICPA CC5.2 |
|  | AICPA CC5.4 |
|  | AICPA CC5.5 |
|  | CIS CSC v6 16.1 |
|  | CIS CSC v6 16.3 |
|  | CMSRs 2013v2 PS-5 (HIGH) |
|  | CSA CCM v3.0.1 IAM-10 |
|  | FedRAMP PS-5 |
|  |  |

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FFIEC IS v2016 A.6.20(c)

FFIEC IS v2016 A.6.22(c)

FFIEC IS v2016 A.6.8(c)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(3)(ii)(B)

HIPAA § 164.308(a)(3)(ii)(C)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(a)(4)(ii)(C)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(a)(1)

ISO/IEC 27001:2013 A.9.2.6

ISO/IEC 27002:2005 11.2.4

ISO/IEC 27002:2013 9.2.5

MARS-E v2 PS-5

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-4

NIST SP 800-53 R4 PS-4

NIST SP 800-53 R4 PS-5

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 2** |  |  |
|  | **Organizational Factors:** |  |  |
|  |  |  |  |
|  | **Level 2** |  |  |
|  | **System Factors:** |  |  |
|  |  |  | |
|  | **Level 2** | Subject to Banking Requirements | |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 | |
|  |  | Subject to FedRAMP Certification | |
|  |  | Subject to FISMA Compliance | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: | |
|  |  |
|  |  | The organization shall maintain a documented list of authorized users of | |
|  |  | information assets. In addition: | |
|  |  | 1. | all types of accounts shall be reviewed at least every ninety (90) days; |
|  |  | 2. | critical system accounts shall be reviewed at least every sixty (60) days; |
|  |  | 3. | user's access rights shall be reviewed at least every ninety (90) days; |
|  |  | 4. | changes to access authorizations shall be reviewed at least every ninety |
|  |  |  | (90) days; and |
|  |  | 5. | authorizations for special privileged access rights shall be reviewed at |

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|  |  |
| --- | --- |
|  | least every sixty (60) days. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4(A)(xi) |
| **Control Standard** | 21 CFR Part 11.10(d) |
| **Mapping:** | CIS CSC v6 16.6 |
|  |
|  | CMSRs 2013v2 AC-2 (HIGH) |
|  | COBIT 4.1 DS5.3 |
|  | COBIT 4.1 DS5.4 |
|  | COBIT 5 DSS05.04 |
|  | FedRAMP AC-2 |
|  | FedRAMP CM-5(5) |
|  | FFIEC IS v2016 A.6.20(d) |
|  | FFIEC IS v2016 A.6.22(c) |
|  | FFIEC IS v2016 A.6.8(c) |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(3)(ii)(C) |
|  | HIPAA § 164.308(a)(4)(ii)(C) |
|  | IRS Pub 1075 v2014 9.3.1.2 |
|  | ISO 27799-2008 7.8.2.4 |
|  | ISO/IEC 27002:2005 11.2.4 |
|  | ISO/IEC 27002:2013 9.2.5 |
|  | MARS-E v2 AC-2 |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST SP 800-53 R4 AC-2 |
|  |  |

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization reviews all system accounts and disables any account that cannot be associated with a business process and owner.

The organization monitors for and notifies the user or user's manager of dormant accounts; and disables such accounts if not needed, or documents and monitors exceptions (e.g., vendor maintenance accounts needed for system recovery or continuity operations). The organization also requires that managers match active employees and contractors with each account belonging to their managed staff. Security or system administrators are then required to disable accounts that are not assigned to valid workforce members.

**Level CMS Implementation Requirements Level CMS Implementation:**

All information system accounts shall be reviewed to receive annual certification.

**Level HIE Implementation Requirements**

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**Level HIE Implementation:**

HIEs shall, for all employees and for all employees of connecting organizations, review users with access and the appropriateness of each users role every ninety

1. days. Any discrepancies shall be remediated immediately following the review.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization inspects privileged accounts (e.g., administrator groups, root accounts, and other system-related accounts) on demand, and at least once every fourteen (14) days to ensure unauthorized accounts have not been created. Privileged user roles associated with applications are inspected every thirty (30) days.

**Objective Name: 01.03 User Responsibilities**

**Control**

**Objective:** To prevent unauthorized user access, and compromise or theft of information and information assets.

**Control Reference: 01.f Password Use**

**Control Specification:**

Users shall be made aware of their responsibilities for maintaining effective access controls and shall be required to follow good security practices in the selection and use of passwords and security of equipment.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authentication; Awareness and Training; Password Management |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to Joint Commission Accreditation |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

Users are made aware of the organization's password policies and requirements

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to:

1. keep passwords confidential;
2. avoid keeping a record (e.g., paper, software file or hand-held device) of passwords, unless this can be stored securely and the method of storing has been approved;
3. change passwords whenever there is any indication of possible system or password compromise;
4. not share individual user accounts or passwords;
5. not provide their password to anyone for any reason (to avoid compromising their user credentials through social engineering attacks);
6. not use the same password for business and non-business purposes; and
7. select quality passwords (see requirements in 01.d).

If users need to access multiple services, systems or platforms, and are required to maintain multiple separate passwords, they shall be advised that they may use a single, quality password for all services where the user is assured that a reasonable level of protection has been established for the storage of the password within each service, system or platform.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.04(1)(b) |
|  |
|  | 201 CMR 17.04(1)(e) |
|  | AICPA CC5.1 |
|  | AICPA CC5.3 |
|  | CMSRs 2013v2 IA-5 (HIGH) |
|  | FedRAMP IA-5 |
|  | HIPAA § 164.308(a)(5)(ii)(D) |
|  | IRS Pub 1075 v2014 9.3.7.5 |
|  | ISO 27799-2008 7.8.3 |
|  | ISO/IEC 27002:2005 11.3.1 |
|  | ISO/IEC 27002:2013 9.3.1 |
|  | JCAHO IM.02.01.03, EP 5 |
|  | MARS-E v2 IA-5 |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  | NIST Cybersecurity Framework PR.AT-1 |
|  | NIST SP 800-53 R4 IA-5 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 8.2.5 |
|  | PCI DSS v3.2 8.2.6 |
|  | PCI DSS v3.2 8.4 |
|  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  | Phase 1 CORE 153: Eligibility and Benefits Connectivity Rule v1.1.0 Subsection 5.1 |
|  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |

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**Control Reference: 01.g Unattended User Equipment**

|  |  |
| --- | --- |
| **Control Specification:** | Users shall ensure that unattended equipment has appropriate protection. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Awareness and Training; Media and Assets |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  |  |
| **Level 1 Implementation:** | All users shall be made aware of the security requirements and procedures for |
|  |
|  | protecting unattended equipment, as well as their responsibilities for implementing |
|  | such protection. |
|  | Users shall be advised to: |
|  | 1. terminate active sessions when finished, unless they can be secured by |
|  | an appropriate locking mechanism (e.g., a password protected screen |
|  | saver); |
|  | 2. log-off mainframe computers, servers, and office PCs when the session is |
|  | finished (e.g., not just switch off the PC screen or terminal); |
|  | 3. secure PCs or terminals from unauthorized use by a key lock or an |
|  | equivalent control (e.g., password access) when not in use. |
|  | The organization shall safeguard information system output devices (e.g., |
|  | printers) to help prevent unauthorized individuals from obtaining the output. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC5.1 |
|  |
|  | AICPA CC5.5 |
|  | CMSRs 2013v2 AC-11 (HIGH) |
|  | CMSRs 2013v2 PE-5 (HIGH) |
|  | CSA CCM v3.0.1 HRS-10 |
|  | HIPAA § 164.310(a)(1) |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.310(c) |
|  | HIPAA § 164.312(a)(2)(iii) |
|  | IRS Pub 1075 v2014 4.3.2 |
|  | IRS Pub 1075 v2014 9.3.1.9 |
|  |  |

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IRS Pub 1075 v2014 9.3.11.5

ISO 27799-2008 7.8.3

ISO/IEC 27002:2005 11.3.2

ISO/IEC 27002:2013 11.2.8

MARS-E v2 AC-11

MARS-E v2 PE-5

NIST Cybersecurity Framework PR.AC-2

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.PT-2

NIST SP 800-53 R4 AC-11

NIST SP 800-53 R4 PE-18

NIST SP 800-53 R4 PE-5

NIST SP 800-53 R4 SC-10

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Output from printers and fax machines should be in a controlled area and secured when not in use.

Physical access to monitors displaying FTI should be controlled to prevent unauthorized access to the display output.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 01.h Clear Desk and Clear Screen Policy** | |
|  |  |  |
|  | **Control Specification:** | A clear desk policy for papers and removable storage media and a clear screen |
|  |  |
|  |  | policy for information assets shall be adopted. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Data Loss Prevention; Documentation and Records; |
|  |  | Media and Assets; Policies and Procedures |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to Texas Health and Safety Code |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 1 Implementation:** | A clear desk policy for papers and removable storage media and a clear screen |
|  |
|  | policy for information assets shall be developed and adopted, and communicated |
|  | to all users. The clear desk and clear screen policy shall take into account the |
|  | information classifications, legal and contractual requirements, and the |
|  | corresponding risks and cultural aspects of the organization. |
|  | The following practices shall be established: |
|  | 1. covered or critical business information (e.g., on paper or on electronic |
|  | storage media) shall be locked away (ideally in a safe or cabinet or other |
|  | forms of security furniture) when not required, especially when the office |
|  | is vacated; |
|  | 2. computers and terminals shall be left logged off or protected with a screen |
|  | and keyboard locking mechanism controlled by a password, token or |
|  | similar user authentication mechanism that conceals information |
|  | previously visible on the display when unattended, and shall be protected |
|  | by key locks, passwords or other controls when not in use; |
|  | 3. incoming and outgoing mail points and unattended facsimile machines |
|  | shall be protected; |
|  | 4. unauthorized use of photocopiers and other reproduction technology |
|  | (e.g., scanners, digital cameras) shall be prevented; |
|  | 5. documents containing covered or classified information shall be removed |
|  | from printers, copiers, and facsimile machines immediately; and |
|  | 6. when transporting documents with covered information within facilities |
|  | and through inter-office mail, information shall not be visible through |
|  | envelope windows, and envelopes shall be marked according to the |
|  | information's classification level (e.g., "Confidential"). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.2 |
|  |
|  | AICPA CC2.3 |
|  | AICPA CC5.1 |
|  | AICPA CC5.5 |
|  | CMSRs 2013v2 AC-11 (HIGH) |
|  | CMSRs 2013v2 MP-3(HIGH) |
|  | CSA CCM v3.0.1 HRS-11 |
|  | De-ID Framework v1 Physical Security: General |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.310(c) |
|  | HIPAA § 164.310(d)(1) |
|  | HIPAA § 164.312(a)(2)(i) |
|  | HIPAA § 164.312(a)(2)(iii) |
|  | HITRUST SME |
|  | IRS Pub 1075 v2014 9.3.1.9 |
|  | IRS Pub 1075 v2014 9.3.10.3 |
|  | ISO 27799-2008 7.8.3 |
|  | ISO/IEC 27002:2005 11.3.3 |
|  |  |

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ISO/IEC 27002:2005 7.2.2

ISO/IEC 27002:2013 11.2.9

ISO/IEC 27002:2013 8.2.3

MARS-E v2 AC-11

MARS-E v2 MP-3

NIST Cybersecurity Framework PR.PT-2

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AC-11

NIST SP 800-53 R4 MP-3

NIST SP 800-53 R4 MP-4

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Objective Name: 01.04 Network Access Control**

|  |  |
| --- | --- |
| **Control** | To prevent unauthorized access to networked services. |
| **Objective:** |

**Control Reference: 01.i Policy on the Use of Network Services**

|  |  |
| --- | --- |
|  |  |
| **Control Specification:** | Users shall only be provided with access to internal and external network services |
|  |
|  | that they have been specifically authorized to use. Authentication and |
|  | authorization mechanisms shall be applied for users and equipment. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authentication; Authorization; Network Segmentation; User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | The organization shall specify the networks and network services to which users |
|  |
|  | are authorized access. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC2.3 |
|  |
|  | AICPA CC5.1 |
|  |  |

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CMSRs 2013v2 AC-1 (HIGH)

CRR V2016 CM:G2.Q8

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(a)(4)(ii)(c)

HIPAA § 164.312(a)(1)

IRS Pub 1075 v2014 9.3.1.1

ISO/IEC 27001:2005 A.11.4.1

ISO/IEC 27001:2013 9.1.2

MARS-E v2 AC-1

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AC-6

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall: |
|  |  | 1. determine who is allowed to access which network and networked |
|  |  | services (see 01.i, level 1); and |
|  |  | 2. specify the means that can be used to access networks and network |

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services (e.g., the conditions for allowing access to a remote system). At a minimum, the organization manages all enterprise devices remotely logging into the internal network, with remote control of their configuration, installed software, and patch levels. The organization shall also publish minimum security standards for access to the enterprise network by third-party devices (e.g., subcontractors/vendors), and perform a security scan before allowing access.

The use of network services shall be consistent with the organization's business access control requirements.

Use of external information systems shall be managed effectively including:

1. information systems or components of information systems that are outside of the accreditation boundary established by the organization shall be identified as external information systems including:
   1. information systems or components of information systems for which the organization typically has no direct control over the application of required security controls, or the assessment of security control effectiveness shall be identified as external information systems;
   2. personally owned information systems (e.g., computers, cellular telephones, or personal digital assistants) shall be identified as external information systems; and
   3. privately owned computing and communications devices resident in commercial or public facilities (e.g., hotels, convention centers, or airports) shall be identified as external information systems.
2. authorized individuals shall be prohibited from using an external information system to access the information system or to process, store or transmit organization-controlled information except in situations where the organization:
   1. can verify the employment of required security controls on the external system as specified in the organization's information security policy and system security plan; or
   2. has approved information system connection or processing agreements with the organizational entity hosting the external information system.

The organization shall identify ports, services, and similar applications (e.g., protocols) necessary for business and provide the rationale or identify compensating controls implemented for those protocols considered to be insecure.

|  |  |  |
| --- | --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | CIS CSC v6 | 12.7 |
| **Mapping:** | CIS CSC v6 | 9.1 |
|  |
|  | CMSRs 2013v2 AC-20 (HIGH) | |
|  | CMSRs 2013v2 CM-7 (HIGH) | |
|  | CRR V2016 CM:G2.Q8 | |
|  | CSA CCM v3.0.1 IAM-09 | |
|  | CSA CCM v3.0.1 IVS-06 | |

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FedRAMP AC-20

FedRAMP CM-7

FFIEC IS v2016 A.6.7(a)

FFIEC IS v2016 A.6.7(b)

FFIEC IS v2016 A.6.7(c)

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(4)(i)

IRS Pub 1075 v2014 9.3.1.15

IRS Pub 1075 v2014 9.3.5.7

ISO 27799-2008 7.8.4

ISO/IEC 27002:2005 11.4.1

ISO/IEC 27002:2013 9.1.2

MARS-E v2 AC-20

MARS-E v2 CM-7

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework ID.AM-4

NIST Cybersecurity Framework PR.IP-1

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 AC-17

NIST SP 800-53 R4 AC-18

NIST SP 800-53 R4 AC-20

NIST SP 800-53 R4 AC-6

NIST SP 800-53 R4 CM-7

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The service provider uses the Center for Internet Security guidelines (Level 1) to establish list of prohibited or restricted functions, ports, protocols, and/or services or establishes its own list of prohibited or restricted functions, ports, protocols, and/or services if United States Government Configuration Baseline (USGCB) is not available.

**Control Reference: 01.j User Authentication for External Connections**

|  |  |
| --- | --- |
| **Control Specification:** | Appropriate authentication methods shall be used to control access by remote |
|  |
|  | users. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authentication; Authorization; Third Parties and Contractors; User Access; |
|  | Network Security |
|  |  |

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|  |  |  |
| --- | --- | --- |
| **Level 1 Implementation Requirements** | | |
|  |  | |
| **Level 1** | Applicable to all Organizations | |
| **Organizational Factors:** |  |  |
|  |  |  |
| **Level 1** |  |  |
| **System Factors:** |  |  |
|  |  | |
| **Level 1** | Subject to FTC Red Flags Rule | |
| **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements | |
|  |  |  |
| **Level 1 Implementation:** | Authentication of remote users shall be implemented using a password or | |
|  |
|  | passphrase and at least one (1) of the following methods: | |
|  | 1. a cryptographic based technique; | |
|  | 2. | biometric techniques; |
|  | 3. | hardware tokens; |
|  | 4. | software tokens; |
|  | 5. a challenge/response protocol; or | |
|  | 6. | certificate agents. |
|  | The organization shall protect wireless access to systems containing sensitive | |
|  | information by authenticating users and devices. | |
|  | Remote access to business information across public networks shall only take | |
|  | place after successful identification and authentication. Remote access by | |
|  | vendors and business partners (e.g., maintenance, reports or other data access) | |
|  | shall be disabled unless specifically authorized by management. If remote | |
|  | maintenance is performed, the organization shall closely monitor and control any | |
|  | activities, with immediate deactivation after use. Remote access to business | |
|  | partner accounts shall also be immediately deactivated after use. | |
|  | Use Radius or Kerberos to enable user privilege/resources to access the | |
|  | organization's network. For dial-up connections, use CHAP negotiation for | |
|  | encryption of user authentication. Configure CHAP instead of PAP for user | |
|  | authentication in dialup connection for encryption and security. If encryption is not | |
|  | used for dial-up connections, the CIO or his/her designated representative must | |
|  | provide specific written authorization. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(3) | |
| **Mapping:** | 1 TAC § 390.2(a)(4)(A)(xi) | |
|  |
|  | 16 CFR Part §681 Appendix A III(b) | |
|  | 21 CFR Part 11.10(d) | |
|  | AICPA C1.3 | |
|  | AICPA CC5.1 | |
|  | AICPA CC5.3 | |
|  | AICPA CC5.6 | |
|  | AICPA CC5.7 | |
|  | CMSRs 2013v2 AC-17(HIGH) | |
|  | CMSRs 2013v2 AC-18 (HIGH) | |
|  |  |  |

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CMSRs 2013v2 AC-18(1) (HIGH)

CMSRs 2013v2 IA-2 (HIGH)

CMSRs 2013v2 IA-8(1) (HIGH)

CMSRs 2013v2 IA-8(2) (HIGH)

CMSRs 2013v2 IA-8(3) (HIGH)

CMSRs 2013v2 IA-8(4) (HIGH)

CMSRs 2013v2 IA-8(HIGH)

CMSRs 2013v2 MA-4 (HIGH)

CRR V2016 CCM:G2.Q11

De-ID Framework v1 Remote Access: Applicability

FedRAMP AC-17

FedRAMP AC-18

FedRAMP AC-18(1)

FedRAMP IA-2

FedRAMP MA-4

FFIEC IS v2016 A.6.21(e)

FFIEC IS v2016 A.6.23

FFIEC IS v2016 A.6.24

HIPAA § 164.310(b)

HIPAA § 164.312(d)

HITRUST SME

IRS Pub 1075 v2014 9.3.1.12

IRS Pub 1075 v2014 9.3.1.13

IRS Pub 1075 v2014 9.3.7.2

IRS Pub 1075 v2014 9.3.9.4

ISO/IEC 27002:2005 11.4.2

ISO/IEC 27002:2005 11.7.1

MARS-E v2 AC-17

MARS-E v2 AC-18

MARS-E v2 AC-18(1)

MARS-E v2 IA-2

MARS-E v2 IA-8

MARS-E v2 MA-4

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.MA-2

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 AC-17

NIST SP 800-53 R4 AC-18

NIST SP 800-53 R4 IA-2

NIST SP 800-53 R4 IA-3

NIST SP 800-53 R4 IA-8

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NIST SP 800-53 R4 IA-8(1)

NIST SP 800-53 R4 IA-8(2)

NIST SP 800-53 R4 IA-8(3)

NIST SP 800-53 R4 IA-8(4)

NIST SP 800-53 R4 MA-4

NRS 603A.215.1

PCI DSS v3.2 12.3.9

PCI DSS v3.2 8.1.5

PCI DSS v3.2 8.3

PCI DSS v3.2 8.3.2

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Authentication of remote users shall be implemented via virtual private network |
|  |  | (VPN) solutions that support a cryptographic-based technique, hardware tokens, |
|  |  | or a challenge/response protocol. Dedicated private lines may also be used to |
|  |  | provide assurance of the source of connections. Control all remote access |
|  |  | through a limited number of managed access control points. |
|  |  | Periodic monitoring shall be implemented to ensure that installed equipment does |
|  |  | not include unanticipated dial-up capabilities. Require callback capability with re- |
|  |  | authentication to verify connections from authorized locations. For application |
|  |  | systems and turnkey systems that require the vendor to log-on, the vendor shall |
|  |  | be assigned a User ID and password and must enter the network through the |
|  |  | standard authentication process. Access to such systems shall be authorized and |
|  |  | logged. User IDs assigned to vendors will be reviewed in accordance with the |
|  |  | organization's access review policy, at a minimum annually. |
|  |  | Node authentication may serve as an alternative means of authenticating groups |
|  |  | of remote users where they are connected to a secure, shared computer facility. |
|  |  | Cryptographic techniques (e.g., based on machine certificates) can be used for |

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|  |  |
| --- | --- |
|  | node authentication. This is part of several VPN based solutions. |
|  | The organization requires all remote login access (including VPN, dial-up, and |
|  | other forms of access that allow login to internal systems, e.g., from an alternate |
|  | work location or to sensitive information via a Web portal) to use two-factor |
|  | authentication |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 12.6 |
| **Mapping:** | CMSRs 2013v2 AC-17 (HIGH) |
|  |
|  | CMSRs 2013v2 AC-17(3) (HIGH) |
|  | CMSRs 2013v2 AC-17-2 (HIGH) |
|  | CMSRs 2013v2 AC-2 (HIGH) |
|  | CMSRs 2013v2 CM-2 (HIGH) |
|  | CMSRs 2013v2 CM-2(2) (HIGH) |
|  | CMSRs 2013v2 IA-8 (HIGH) |
|  | CMSRs 2013v2 IA-8(1) (HIGH) |
|  | CMSRs 2013v2 IA-8(2) (HIGH) |
|  | CMSRs 2013v2 IA-8(3) (HIGH) |
|  | CMSRs 2013v2 IA-8(4) (HIGH) |
|  | FedRAMP AC-17 |
|  | FedRAMP AC-17(2) |
|  | FedRAMP AC-17(3) |
|  | FedRAMP AC-2 |
|  | FedRAMP AC-8 |
|  | FFIEC IS v2016 A.6.23 |
|  | FFIEC IS v2016 A.6.24 |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.312(d) |
|  | IRS Pub 1075 v2014 9.3.1.12 |
|  | IRS Pub 1075 v2014 9.3.1.2 |
|  | IRS Pub 1075 v2014 9.3.7.8 |
|  | ISO 27799-2008 7.8.4 |
|  | ISO/IEC 27002:2005 11.4.2 |
|  | MARS-E v2 AC-17 |
|  | MARS-E v2 AC-17(2) |
|  | MARS-E v2 AC-17(3) |
|  | MARS-E v2 AC-2 |
|  | MARS-E v2 IA-5(11) |
|  | MARS-E v2 IA-8 |
|  | MARS-E v2 ICM-2 |
|  | NIST Cybersecurity Framework DE.CM-1 |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  |  |

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NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 AC-17

NIST SP 800-53 R4 AC-17(2)

NIST SP 800-53 R4 AC-2

NIST SP 800-53 R4 CM-2

NIST SP 800-53 R4 CM-2(2)

NIST SP 800-53 R4 IA-2

NIST SP 800-53 R4 IA-3

NIST SP 800-53 R4 IA-5(11)

NIST SP 800-53 R4 IA-8

NIST SP 800-53 R4 IA-8(1)

NIST SP 800-53 R4 IA-8(2)

NIST SP 800-53 R4 IA-8(3)

NIST SP 800-53 R4 IA-8(4)

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The information system monitors and controls remote access methods. |
|  |  | The execution of privileged commands and access to security-relevant |
|  |  | information via remote access shall only be authorized for compelling operational |

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|  |  |
| --- | --- |
|  | needs and rationale documented. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-17(1) (HIGH) |
| **Mapping:** | CMSRs 2013v2 AC-17(4) (HIGH) |
|  |
|  | CMSRs 2013v2 AC-6(3) (HIGH) |
|  | FedRAMP AC-17(1) |
|  | FedRAMP AC-17(4) |
|  | FFIEC IS v2016 A.6.23 |
|  | FFIEC IS v2016 A.6.24 |
|  | IRS Pub 1075 v2014 9.4.13 |
|  | IRS Pub 1075 v2014 9.4.18 |
|  | MARS-E v2 AC-17(1) |
|  | MARS-E v2 AC-17(4) |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  | NIST Cybersecurity Framework PR.AC-3 |
|  | NIST Cybersecurity Framework PR.DS-2 |
|  | NIST Cybersecurity Framework PR.PT-4 |
|  | NIST SP 800-53 R4 AC-17(1) |
|  | NIST SP 800-53 R4 AC-17(4) |
|  | NRS 603A.215.1 |
|  |  |

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization requires all remote login access (including VPN, dial-up, and other forms of access that allow login to internal systems, e.g., from an alternate work location or to sensitive information via a Web portal) to use two-factor authentication.

**Level CMS Implementation Requirements Level CMS Implementation:**

If e-authentication is implemented as a remote access solution or associated with remote access, refer to the Risk Management Handbook (RMH), Volume III, Standard 3.1, 'CMS Authentication Standards'.

**Level Federal Implementation Requirements**

**Level Federal Implementation:**

The information system accepts and electronically verifies Personal Identity Verification (PIV) credentials from other federal agencies.

The information system accepts only Federal Identity, Credential, and Access Management (FICAM)-approved third-party credentials.

The organization employs only FICAM-approved information system components

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in information systems that authenticate non-organizational users and accept third-party credentials.

The information system conforms to FICAM-issued profiles.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization provides the capability to expeditiously disconnect or disable remote access to the organizations system(s) within fifteen (15) minutes based on the criticality of missions/business functions and the need to eliminate immediate or future remote access to organizational information system(s) .

The information system uses only FICAM-approved components and conforms to FICAM-issued profiles, accepts only FICAM-approved third-party credentials and accepts and electronically verifies PIV credentials from other federal organizations.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

For remote access to FTI, encrypted modems and/or Virtual Private Networks (VPN) are required for every workstation and a smart card (microprocessor) for every user. Smart cards must have both identification and authentication features and must provide data encryption as well.

The agency shall authorize, document, and monitor all wireless access to the information system in accordance with NIST 800-48 Revision 1. WLAN infrastructure that receives, processes, stores, or transmits FTI must comply with the IEEE 802.11i security standard and perform mutual authentication for all access to FTI via an 802.1X extensible authentication protocol (EAP).

Users who access FTI remotely in a Virtual Desktop Infrastructure (VDI) must use multi-factor authentication to validate their identities.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization employs automated mechanisms to facilitate the monitoring and control of remote access methods.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall incorporate mutli-factor authentication for remote network access originating from outside the network by personnel (including users and administrators) and all third parties (including vendor access for support and maintenance).

**Control Reference: 01.k Equipment Identification in Networks**

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|  |  |
| --- | --- |
| **Control Specification:** | Automatic equipment identification shall be used as a means to authenticate |
|  | connections from specific locations and equipment. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authentication; Communications and Transmissions; Media and Assets; Network |
|  | Security |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Internet: Yes |
| **System Factors:** | Third-Party Accessible: Yes |
|  | Third-Party Exchange: Yes |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 1 Implementation:** | An identifier in or attached to the equipment shall be used to indicate whether this |
|  |
|  | equipment is permitted to connect to the network. These identifiers shall clearly |
|  | indicate to which network the equipment is permitted to connect, if more than one |
|  | network exists and particularly if these networks are of differing sensitivity. |
|  | Physical protection of the equipment shall be required to maintain the security of |
|  | the equipment identifier. The identifier shall be stored and transported in an |
|  | encrypted format to protect it from unauthorized access. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC5.1 |
|  |
|  | CMSRs 2013v2 IA-3 (HIGH) |
|  | CMSRs 2013v2 IA-5 (HIGH) |
|  | COBIT 4.1 DS5.7 |
|  | COBIT 5 DSS05.05 |
|  | CSA CCM v3.0.1 DCS-03 |
|  | FedRAMP IA-3 |
|  | FedRAMP IA-5 |
|  | HIPAA § 164.312(a)(2)(i) |
|  | HIPAA § 164.312(d) |
|  | IRS Pub 1075 v2014 9.3.7.3 |
|  | IRS Pub 1075 v2014 9.3.7.5 |
|  | ISO 27799-2008 7.8.4 |
|  | ISO/IEC 27002:2005 11.4.3 |
|  | MARS-E v2 IA-3 |
|  | MARS-E v2 IA-5 |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  |  |

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NIST Cybersecurity Framework PR.AC2-

NIST Cybersecurity Framework PR.DS-1

NIST SP 800-53 R4 IA-3

NIST SP 800-53 R4 IA-5

**Control Reference: 01.l Remote Diagnostic and Configuration Port Protection**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Physical and logical access to diagnostic and configuration ports shall be |
|  |  |
|  |  | controlled. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; Media and Assets; Physical and Facility Security; Network Security |
|  |  |  |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 1 Implementation:** | Access to network equipment shall be physically protected (e.g., a router must be |
|  |  |
|  |  | stored in a room that is only accessible by authorized employees or contractors). |
|  |  |  |
|  | **Level 1** | AICPA CC5.1 |
|  | **Control Standard** | AICPA CC5.5 |
|  | **Mapping:** | AICPA CC5.8 |
|  |  |
|  |  | CMSRs 2013v2 PE-3(1) (HIGH) |
|  |  | NIST Cybersecurity Framework PR.AC-2 |
|  |  | NIST Cybersecurity Framework PR.PT-3 |
|  |  | NIST SP 800-53 R4 PE-3(1) |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |

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|  |  |
| --- | --- |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Controls for the access to diagnostic and configuration ports shall include the use |
|  | of a key lock. Ports, services, and similar applications installed on a computer or |
|  | network systems, which are not specifically required for business functionality, |
|  | shall be disabled or removed. |
|  | Supporting procedures to control physical access to the port shall be implemented |
|  | including ensuring that diagnostic and configuration ports are only accessible by |
|  | arrangement between the manager of the computer service and the |
|  | hardware/software support personnel requiring access. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CM-7 |
| **Mapping:** | CMSRs 2013v2 MA-4 (HIGH) |
|  |
|  | CMSRs 2013v2 MA-4(2) (HIGH) |
|  | CMSRs 2013v2 MA-4(3) (HIGH) |
|  | COBIT 4.1 DS5.7 |
|  | COBIT 5 DSS05.05 |
|  | CSA CCM v3.0.1 IAM-03 |
|  | CSA CCM v3.0.1 IVS-07 |
|  | FedRAMP CM-7 |
|  | FedRAMP MA-4 |
|  | HIPAA § 164.310(c) |
|  | IRS Pub 1075 v2014 9.3.9.4 |
|  | ISO 27799-2008 7.8.4 |
|  | ISO/IEC 27002:2005 11.4.4 |
|  | MARS-E v2 CM-7 |
|  | MARS-E v2 MA-4 |
|  | MARS-E v2 MA-4(2) |
|  | MARS-E v2 MA-4(3) |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework PR.MA-1 |
|  | NIST Cybersecurity Framework PR.PT-3 |
|  | NIST SP 800-53 R4 CM-7 |
|  | NIST SP 800-53 R4 MA-4 |
|  | NIST SP 800-53 R4 MA-4(2) |
|  | NIST SP 800-53 R4 MA-4(3) |
|  |  |

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|  |  |
| --- | --- |
|  | NIST SP 800-53 R4 PE-3(4) |
| **Level 3 Implementation Requirements** | |
|  |  |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall review the information system within every three hundred |
|  | sixty-five (365) days to identify and disable unnecessary and non-secure |
|  | functions, ports, protocols, and/or services. |
|  | The organization shall disable Bluetooth and peer-to-peer networking protocols |
|  | within the information system determined unnecessary (for which there is not a |
|  | documented business need) or non-secure. The organization disables peer-to- |
|  | peer wireless network capabilities on wireless clients. |
|  | The organization shall identify unauthorized software on the information system; |
|  | employ an allow-all, deny-by-exception policy to prohibit the execution of known |
|  | unauthorized software on the information system; and review and update the list |
|  | of unauthorized software periodically, but no less than annually. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 15.7 |
| **Mapping:** | CMSRs 2013v2 CM-7 (HIGH) |
|  |
|  | CMSRs 2013v2 CM-7(1) (HIGH) |
|  | CMSRs 2013v2 CM-7(2) (HIGH) |
|  | CMSRs 2013v2 CM-7(5) (HIGH) |
|  | FedRAMP CM-7 |
|  | FedRAMP CM-7(5) |
|  | HIPAA § 164.310(a)(2)(iii) |
|  | HIPAA § 164.310(b) |
|  |  |

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HIPAA § 164.310(c)

IRS Pub 1075 v2014 9.3.5.7

IRS Pub 1075 v2014 9.4.9

MARS-E v2 CM-7

MARS-E v2 CM-7(1)

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework ID.AM-2

NIST Cybersecurity Framework ID.AM-3

NIST Cybersecurity Framework PR.IP-1

NIST Cybersecurity Framework PR.IP-3

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 CM-7

NIST SP 800-53 R4 CM-7(1)

NIST SP 800-53 R4 CM-7(2)

NIST SP 800-53 R4 CM-7(4)

NIST SP 800-53 R4 CM-7(5)

**Level CMS Implementation Requirements Level CMS Implementation:**

A list of specifically needed system services, ports, and network protocols will be maintained and documented in the security plan.

If collaborative computing is authorized, the information system shall provide physical disconnect of collaborative computing devices in a manner that supports ease of use.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization reviews the information system at least monthly to identify and disables unnecessary and non-secure functions, ports, protocols, and/or services.

The organization identifies defined software programs authorized to execute on the information system, employs automated mechanisms to prevent program execution in accordance with the list of authorized programs through a deny-all, permit-by-exception policy, and reviews and updates the list of authorized software programs within every thirty (30) days.

The organization employs automated mechanisms to scan the network continuously with a maximum five (5) minute delay in detection to detect the presence of unauthorized components/devices (including hardware, firmware and software) into the information system; and disable network access by such components/devices and notify designated organizational officials.

**Level FTI Custodians Implementation Requirements**

|  |  |
| --- | --- |
| **Level FTI Custodians** | Least functionality controls that must be in place that include disabling all |
| **Implementation:** |

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unneeded network protocols, services, and assigning a dedicated static IP address to Multifunctional Devices (MFDs).

**Control Reference: 01.m Segregation in Networks**

|  |  |
| --- | --- |
| **Control Specification:** | Groups of information services, users, and information systems should be |
|  |
|  | segregated on networks. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Network Segmentation; Network Security |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to PCI Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | Security gateways (e.g., a firewall) shall be used between the internal network, |
|  |
|  | external networks (Internet and third-party networks), and any demilitarized zone |
|  | (DMZ). |
|  | An internal network perimeter shall be implemented by installing a secure |
|  | gateway (e.g., a firewall) between two (2) interconnected networks to control |
|  | access and information flow between the two domains. This gateway shall be |
|  | capable of enforcing security policies, be configured to filter traffic between these |
|  | domains, and block unauthorized access in accordance with the organization's |
|  | access control policy. |
|  | Wireless networks shall be segregated from internal and private networks. |
|  | The organization shall require a firewall between any wireless network and the |
|  | covered information system's environment. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.3 |
|  |
|  | AICPA CC5.1 |
|  | AICPA CC5.6 |
|  | CIS CSC v6 11.6 |
|  | CRR V2016 CM:G2.Q2 |
|  | CRR V2016 CM:G2.Q8 |
|  | CSA CCM v3.0.1 DSI-02 |
|  |  |

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CSA CCM v3.0.1 IVS-06

FFIEC IS v2016 A.6.10

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(3)(ii)(B)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.310(b)

IRS Pub 1075 v2014 9.4.10

ISO/IEC 27002:2005 11.4.5

ISO/IEC 27002:2013 13.1.3

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework PR.AC-5

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 AC-4(2)

NIST SP 800-53 R4 SC-7

NRS 603A.215.1

PCI DSS v3.2 1.1

PCI DSS v3.2 1.1.4

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  | Multi-State |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The criteria for segregation of networks into domains shall be based on the |
|  |  | access control policy and access requirements, and also takes account of the |
|  |  | relative cost and performance impact of incorporating suitable network routing or |

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|  |  |
| --- | --- |
|  | gateway technology. In addition, segregation of networks shall be based on the |
|  | value and classification of information stored or processed in the network, levels |
|  | of trust, or lines of business, in order to reduce the total impact of a service |
|  | disruption. |
|  | Networks shall be divided into separate logical network domains (e.g., an |
|  | organization's internal network domains and external network domains) each |
|  | protected by a defined security perimeter. A graduated set of controls shall be |
|  | applied in different logical network domains to further segregate the network |
|  | security environments (e.g., publicly accessible systems; internal networks; critical |
|  | assets; and key information security tools, mechanisms, and support components |
|  | associated with system and security administration). |
|  | Segregations of separate logical domains shall be achieved by restricting network |
|  | access using virtual private networks for user groups within the organization. |
|  | Networks shall also be segregated using network device functionality (e.g., IP |
|  | switching). |
|  | A baseline of network operations and expected data flows for users and systems |
|  | shall be established and managed. Separate domains shall then be implanted by |
|  | controlling the network data flows using routing/switching capabilities, including |
|  | access control lists, according to applicable flow control policies. |
|  | The domains shall be defined based on a risk assessment and the different |
|  | security requirements within each of the domains. |
|  | The organization shall implement subnetworks for publicly accessible system |
|  | components that are logically separated from internal organizational networks. To |
|  | ensure proper separation, the organization verifies any server that is visible from |
|  | the Internet or an untrusted network and, if it is not required for business |
|  | purposes, moves it to an internal VLAN and gives it a private address. |
|  | Organizations shall use a network segregated from production-level networks |
|  | when migrating physical servers, applications or data to virtualized servers. |
|  | The organization manages the network infrastructure across network connections |
|  | that are separated from the business use of that network, relying on separate |
|  | VLANs or, preferably, on entirely different physical connectivity for management |
|  | sessions for network devices |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 11.7 |
| **Mapping:** | CIS CSC v6 14.1 |
|  |
|  | CIS CSC v6 15.9 |
|  | CIS CSC v6 9.4 |
|  | CMSRs 2013v2 AC-4 (HIGH) |
|  | CMSRs 2013v2 SC-32 (HIGH) |
|  | CMSRs 2013v2 SC-7 (HIGH) |
|  | CMSRs 2013v2 SC-7(13) (HIGH) |
|  | COBIT 4.1 DS5.10 |
|  | COBIT 5 DSS05.02 |
|  |  |

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CRR V2016 CCM:G3.Q3

CRR V2016 CCM:G3.Q4

CRR V2016 CCM:G3.Q5

CRR V2016 CCM:G3.Q6

CRR V2016 CM:G2.Q2

CRR V2016 CM:G2.Q8

CSA CCM v3.0.1 IVS-09

CSA CCM v3.0.1 IVS-10

FedRAMP AC-4(21)

FedRAMP SC-7

FedRAMP SC-7(13)

FFIEC IS v2016 A.6.10

FFIEC IS v2016 A.6.17

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(3)(ii)(B)

IRS Pub 1075 v2014 9.3.1.4

IRS Pub 1075 v2014 9.3.16.5

IRS Pub 1075 v2014 9.4.11

IRS Pub 1075 v2014 9.4.13

IRS Pub 1075 v2014 9.4.14

IRS Pub 1075 v2014 9.4.15

IRS Pub 1075 v2014 9.4.18

IRS Pub 1075 v2014 9.4.5

ISO/IEC 27002:2005 11.4.5

ISO/IEC 27002:2013 13.1.3

MARS-E v2 SC-32

MARS-E v2 SC-7

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework ID.AM-3

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.AC-5

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.IP-1

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 AC-4

NIST SP 800-53 R4 SC-32

NIST SP 800-53 R4 SC-7

PCI DSS v3.2 1.2

**Level CIS Implementation Requirements Level CIS Implementation:**

Network engineers shall use a dedicated machine for all administrative tasks or

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tasks requiring elevated access. This machine shall be isolated from the organization's primary network and not be allowed Internet access. This machine shall not be used for reading email, composing documents, or surfing the Internet.

The organization uses virtual machines and/or air-gapped (i.e., stand-alone) systems to isolate and run applications that are required for business and/or clinical operations but present a high risk to the organization for connection to its network(s).

The organization manages the network infrastructure across network connections that are separated from the business use of that network, relying on separate VLANs or, preferably, on entirely different physical connectivity for management sessions for network devices.

The organization segments the network based on the label or classification level of the information stored on the servers, ensuring all sensitive information is located on separated VLANs.

The organization creates separate virtual local area networks (VLANs) for BYOD systems or other untrusted devices (e.g., legacy medical devices).

The organization operates critical services on separate physical or logical host machines, such as DNS, file, mail, Web and database servers.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall partition the information system into defined information system components (defined in the applicable security plan) residing in separate physical domains or environments based on defined circumstances (defined in the applicable security plan) for physical separation of components.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

To use an Integrated Voice Response (IVR) system that provides FTI over the telephone to a customer, the agency must ensure the LAN segment where the IVR system resides is firewalled (segmented) to prevent direct access from the Internet to the IVR system.

To use FTI in a SAN environment, the agency must ensure FTI is segregated from other agency data within the SAN environment.

To use Virtual Desktop Infrastructure (VDI) to provide FTI to a customer, the agency muse ensure VDI components are segregated so that boundary protections can be implemented and access controls are granularized.

To use a virtual environment that receives, processes, stores or transmits FTI, separation between VMs must be enforced, and functions that allow one VM to share data with the hypervisor or another VM, such as clipboard sharing or shared disks, must be disabled.

To use a VoIP network that provides FTI to a customer, VoIP traffic that contains

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FTI should be segmented off from non-VoIP traffic through segmentation. If complete segmentation is not feasible, the agency must have compensating controls in place and properly applied that restrict access to VoIP traffic that contains FTI. VoIP-ready firewalls must be used to filter VoIP traffic on the network.

To use FTI in an 802.11 WLAN, the agency must architect the WLAN environment to provide logical separation between WLANs with different security profiles, and from the wired LAN.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization partitions the information system into defined information system components (defined in the applicable security plan) residing in separate physical domains (or environments), based on defined circumstances (defined in the applicable security plan) for physical separation of components.

**Control Reference: 01.n Network Connection Control**

|  |  |
| --- | --- |
| **Control Specification:** | For shared networks, especially those extending across the organization's |
|  |
|  | boundaries, the capability of users to connect to the network shall be restricted, in |
|  | line with the access control policy and requirements of the business applications. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Network Segmentation; User Access; Network Security |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to State of Massachusetts Data Protection Act |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | At managed interfaces, network traffic is denied by default and allowed by |
|  |
|  | exception (i.e., deny all, permit by exception). |
|  | The organization shall restrict the ability of users to connect to the internal |
|  | network in accordance with the access control policy and the requirements of the |
|  | clinical and business applications. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.04(6) |
|  |
|  |  |

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AICPA C1.3

AICPA CC5.1

AICPA CC5.6

AICPA CC5.7

CMSRs 2013v2 SC-7 (HIGH)

CMSRs 2013v2 SC-7(5) (HIGH)

CRR V2016 CM:G2.Q2

CRR V2016 CM:G2.Q8

FedRAMP SC-7

FedRAMP SC-7(5)

HIPAA § 164.310(b)

IRS Pub 1075 v2014 9.3.16.5

MARS-E v2 SC-7

MARS-E v2 SC-7(5)

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.AC-5

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 SC-7

NIST SP 800-53 R4 SC-7(5)

NRS 603A.215.1

PCI DSS v3.2 1.2.1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to CRR V2016 |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |

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Subject to the CMS Minimum Security Requirements (High)

Subject to the EU GDPR

**Level 2 Implementation:**

Level 1 plus:

The connection capability of users shall be restricted through network gateways (e.g., a firewall) that filter traffic by means of pre-defined tables or rules.

Restrictions shall be applied to:

1. messaging (e.g., electronic mail);
2. file transfer (e.g., peer-to-peer, FTP);
3. interactive access (e.g., where a user provides input to the system); and
4. common Windows applications.

Review exceptions to the traffic flow policy within every three hundred sixty-five (365) days or implementation of major new systems.

Linking network access rights to certain times of day or dates shall be implemented.

The organization shall limit the number of external network connections to the information system (e.g., prohibiting desktop modems) to allow for more comprehensive monitoring of inbound and outbound communications and network traffic.

The organization shall:

1. implement a managed interface for each external telecommunication service, i.e., transmissions of data to or from other entities external to the secure site, including to other secure sites using networks or any other communications resources outside of the physical control of the secure site to transmit information;
2. establish a traffic flow policy for each managed interface;
3. employ security controls as needed to protect the confidentiality and integrity of the information being transmitted;
4. document each exception to the traffic flow policy with a supporting mission/business need and duration of that need;
5. review exceptions to the traffic flow policy within every three hundred sixty-five (365) days; and
6. remove traffic flow policy exceptions that are no longer supported by an explicit mission/business need.

Remote devices that have established a non-remote connection shall be prevented from simultaneously establishing non-remote connections with the system and communicating via some other connection to resources in external networks.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-17 (HIGH) |
| **Mapping:** | CMSRs 2013v2 AC-17(3) (HIGH) |
|  |
|  | CMSRs 2013v2 AC-2(11) (HIGH) |

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CMSRs 2013v2 SC-7(3) (HIGH)

CMSRs 2013v2 SC-7(4) (HIGH)

CMSRs 2013v2 SC-7(7) (HIGH)

CMSRs 2013v2 SC-7(8) (HIGH)

CMSRs 2013v2 SC-8 (HIGH)

COBIT 4.1 DS5.10

COBIT 5 DSS05.02

CRR V2016 CM:G2.Q2

CRR V2016 CM:G2.Q4

CRR V2016 CM:G2.Q8

CSA CCM v3.0.1 IVS-06

CSA CCM v3.0.1 IVS-09

De-ID Framework v1 Transmission Encryption: Policies

FedRAMP AC-17

FedRAMP AC-17(3)

FedRAMP SC-7(3)

FedRAMP SC-7(4)

FedRAMP SC-7(4)

FedRAMP SC-7(7)

FedRAMP SC-8

GDPR Article 32(1)(a)

HIPAA § 164.310(b)

IRS Pub 1075 v2014 9.3.1.12

IRS Pub 1075 v2014 9.3.1.4

IRS Pub 1075 v2014 9.3.16.5

IRS Pub 1075 v2014 9.4.10

IRS Pub 1075 v2014 9.4.16

IRS Pub 1075 v2014 9.4.17

ISO 27799-2008 7.8.4

ISO/IEC 27002:2005 11.4.5

ISO/IEC 27002:2005 11.4.6

ISO/IEC 27002:2005 12.5.4

MARS-E v2 AC-17

MARS-E v2 AC-17(3)

MARS-E v2 SC-7(3)

MARS-E v2 SC-7(4)

MARS-E v2 SC-7(7)

MARS-E v2 SC-7(8)

MARS-E v2 SC-8

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework PR.AC-5

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NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.IP-3

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 AC-17

NIST SP 800-53 R4 AC-17(3)

NIST SP 800-53 R4 AC-2(11)

NIST SP 800-53 R4 SC-7

NIST SP 800-53 R4 SC-7(3)

NIST SP 800-53 R4 SC-7(4)

NIST SP 800-53 R4 SC-7(7)

NIST SP 800-53 R4 SC-7(8)

NIST SP 800-53 R4 SC-8

PMI DSP Framework PR.DS-1

**Level CMS Implementation Requirements Level CMS Implementation:**

The information system shall route all user-initiated internal communications traffic to untrusted external networks through authenticated proxy servers at managed interfaces.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The information system routes all user-initiated internal communications traffic to untrusted external networks through authenticated proxy servers at managed

interfaces.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

FTI must be transmitted securely in a Virtual Desktop Infrastructure (VDI) environment using end-to-end encryption.

To use an external Web-based system or website that provides FTI over the Internet to a customer, the agency must ensure access to the database through the Web application is limited by configuring the system architecture as a three-tier architecture with physically separate systems that provide layered security of the FTI.

To access FTI using a Web browser, the agency must deploy a Web gateway to inspect Web traffic and protect the user workstation from direct exposure to the Internet.

**Level HIX Implementation Requirements Level HIX Implementation:**

The information system routes all user-initiated internal communications traffic to

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untrusted external networks through authenticated proxy servers at managed interfaces.

**Control Reference: 01.o Network Routing Control**

|  |  |
| --- | --- |
| **Control Specification:** | Routing controls shall be implemented for networks to ensure that computer |
|  |
|  | connections and information flows do not breach the access control policy of the |
|  | business applications. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Network Segmentation; Network Security |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Security gateways (e.g., a firewall) shall be used between internal and external |
|  |
|  | networks (Internet and third-party networks). |
|  | The organization implements routing controls at the network perimeter. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.3 |
|  |
|  | AICPA CC5.1 |
|  | AICPA CC5.6 |
|  | AICPA CC5.7 |
|  | CRR V2016 CM:G2.Q2 |
|  | CRR V2016 CM:G2.Q8 |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(3)(ii)(B) |
|  | HIPAA § 164.312(e)(1) |
|  | IRS Pub 1075 v2014 9.4.10 |
|  | ISO/IEC 27002:2005 11.4.5 |
|  | ISO/IEC 27002:2013 13.1.3 |
|  | NIST Cybersecurity Framework PR.AC-5 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  |  |

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|  |  |
| --- | --- |
|  | NIST Cybersecurity Framework PR.PT-4 |
| **Level 2 Implementation Requirements** | |
|  |  |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Security gateways (e.g., a firewall) shall be used to validate source and |
|  | destination addresses at internal and external network control points. The |
|  | organization designs and implements network perimeters so that all outgoing |
|  | network traffic to the Internet must pass through at least one (1) application layer |
|  | filtering proxy server. The proxy shall support decrypting network traffic, logging |
|  | individual TCP sessions, blocking specific URLs, domain names, and IP |
|  | addresses to implement a blacklist, and applying whitelists of allowed sites that |
|  | can be accessed through the proxy while blocking all other sites. Organizations |
|  | force outbound traffic to the Internet through an authenticated proxy server on the |
|  | enterprise perimeter. |
|  | The requirements for network routing control shall be based on the access control |
|  | policy. Routing controls shall also be based on positive source and destination |
|  | address checking mechanisms. |
|  | Internal directory services and internal IP addresses shall be protected and |
|  | hidden from any external access. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 12.5 |
| **Mapping:** | CIS CSC v6 14.3 |
|  |
|  |  |

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CIS CSC v6 15.9

CMSRs 2013v2 AC-4 (HIGH)

CMSRs 2013v2 SC-7 (HIGH)

CRR V2016 CM:G2.Q2

CRR V2016 CM:G2.Q8

FedRAMP AC-4

FedRAMP SC-7

HIPAA § 164.308(a)(3)(ii)(B)

IRS Pub 1075 v2014 9.3.1.4

IRS Pub 1075 v2014 9.3.16.5

IRS Pub 1075 v2014 9.4.10

ISO 27799-2008 7.8.4

ISO/IEC 27002:2005 11.4.7

MARS-E v2 AC-4

MARS-E v2 SC-7

NIST Cybersecurity Framework ID.AM-3

NIST Cybersecurity Framework PR.AC-5

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 AC-4

NIST SP 800-53 R4 SC-7

NRS 603A.215.1

PCI DSS v3.2 1.2

PCI DSS v3.2 1.2.1

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization configures all network switches for Private VLAN (also known as port isolation).

Internet access from virtual local area networks (VLANs) for BYOD systems or other untrusted devices (e.g., legacy medical devices) goes through at least the same border as corporate traffic.

**Objective Name: 01.05 Operating System Access Control**

|  |  |
| --- | --- |
| **Control** | To prevent unauthorized access to operating systems. |
| **Objective:** |

**Control Reference: 01.p Secure Log-on Procedures**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Access to operating systems shall be controlled by a secure log-on procedure. |
|  |  |  |
|  | **Factor Type:** | System |
|  |  |  |

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|  |  |
| --- | --- |
| **Topics:** | Authorization; Policies and Procedures; User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to IRS Pub 1075 Compliance |
| **Regulatory Factors:** | Subject to PCI Compliance |
|  |  |
| **Level 1 Implementation:** | A secure log-on procedure shall: |
|  |
|  | 1. display a general notice warning that the computer shall only be accessed |
|  | by authorized users; |
|  | 2. limit the number of unsuccessful log-on attempts allowed to six (6) |
|  | attempts; |
|  | 3. enforce recording of unsuccessful and successful attempts; |
|  | 4. force a time delay of thirty (30) minutes before further log-on attempts are |
|  | allowed or reject any further attempts without specific authorization from |
|  | an administrator; and |
|  | 5. not display the password being entered by hiding the password |
|  | characters with symbols. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | AICPA CC5.1 |
| **Mapping:** | AICPA CC5.3 |
|  |
|  | CIS CSC v6 16.7 |
|  | CMSRs 2013v2 AC-7 (HIGH) |
|  | CMSRs 2013v2 AC-8 (HIGH) |
|  | CMSRs 2013v2 AC-9 (HIGH) |
|  | CMSRs 2013v2 AU-12(HIGH) |
|  | CMSRs 2013v2 AU-2(HIGH) |
|  | CMSRs 2013v2 IA-6(HIGH) |
|  | FedRAMP AU-12 |
|  | FedRAMP IA-6 |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.308(a)(5)(ii)(D) |
|  | HIPAA § 164.312(d) |
|  | IRS Pub 1075 v2014 9.3.1.7 |
|  | IRS Pub 1075 v2014 9.3.1.8 |
|  | IRS Pub 1075 v2014 9.3.3.3 |
|  | ISO/IEC 27002:2005 11.5.1 |
|  | ISO/IEC 27002:2013 9.4.2 |
|  | MARS-E v2 AC-7 |
|  | MARS-E v2 AU-12 |
|  | MARS-E v2 AU-2 |
|  |  |

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MARS-E v2 IA-6

NIST Cybersecurity Framework PR.AC-1

NIST SP 800-53 R4 AC-7

NIST SP 800-53 R4 AC-8

NIST SP 800-53 R4 AC-9

NIST SP 800-53 R4 AU-12

NIST SP 800-53 R4 AU-2

NIST SP 800-53 R4 IA-6

NRS 603A.215.1

PCI DSS v3.2 8.1.6

PCI DSS v3.2 8.1.7

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Number of users of the system: 500 to 5,500 |
|  | **System Factors:** | Public Access: Yes |
|  |  | Third-Party Accessible: Yes |
|  |  | Third-Party Exchange: Yes |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The procedure for logging into an operating system shall be designed to minimize |
|  |  | the opportunity for unauthorized access. The log-on procedure shall therefore |
|  |  | disclose the minimum of information about the system, in order to avoid providing |
|  |  | an unauthorized user with any unnecessary assistance. |
|  |  | The log-on procedures shall: |
|  |  | 1. limit the number of unsuccessful log-on attempts allowed to three (3) |
|  |  | attempts, and enforce: |
|  |  | i. disconnecting data link connections; |
|  |  | ii. sending an alarm message to the system console if the maximum |
|  |  | number of log-on attempts is reached; and |
|  |  | iii. setting the number of password retries in conjunction with the |
|  |  | minimum length of the password and the value of the system |
|  |  | being protected; |
|  |  | 2. limit the maximum and minimum time allowed for the log-on procedure, if |
|  |  | exceeded, the system shall terminate the log-on; |
|  |  | 3. not transmit usernames and passwords in clear text over the network; |
|  |  | 4. not display system or application identifiers until the log-on process has |
|  |  | been successfully completed; |
|  |  | 5. not provide help messages during the log-on procedure that would aid an |
|  |  | unauthorized user; and |
|  |  | 6. validate the log-on information only on completion of all input data. If an |
|  |  | error condition arises, the system shall not indicate which part of the data |
|  |  | is correct or incorrect. |
|  |  |  |

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**Level 2**

**Control Standard**

**Mapping:**

1 TAC § 390.2(a)(4)(A)(xi)

CIS CSC v6 16.13

CMSRs 2013v2 AC-7 (HIGH)

CMSRs 2013v2 IA-6 (HIGH)

FedRAMP IA-6

HIPAA § 164.308(a)(5)(ii)(D)

HIPAA § 164.312(d)

IRS Pub 1075 v2014 9.3.1.7

IRS Pub 1075 v2014 9.3.7.6

ISO/IEC 27002:2005 11.5.1

ISO/IEC 27002:2013 9.4.2

MARS-E v2 AC-7

MARS-E v2 IA-6

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 AC-7

NIST SP 800-53 R4 IA-6

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 3** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 3** | Internet: Yes |
| **System Factors:** |
|  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Configure the information system to lock out the user account automatically after |
|  | three (3) failed log-on attempts by a user during a one (1) hour time period. |
|  | Require the lock out to persist for a minimum of three (3) hours. |
|  | Training shall include reporting procedures and responsibility for authorized users |
|  | to report unauthorized log-ons and unauthorized attempts to log-on. |
|  | The number of concurrent sessions shall be limited to a specified number for all |
|  | account types defined by the organization. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-10 (HIGH) |
| **Mapping:** | CMSRs 2013v2 AC-7 (HIGH) |
|  |
|  | CMSRs 2013v2 AC-9 (HIGH) |
|  | CMSRs 2013v2 AT-2 (HIGH) |
|  |  |

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FedRAMP AC-7

FedRAMP AT-2

HIPAA § 164.308(a)(5)(ii)(D)

HITRUST SME

IRS Pub 1075 v2014 9.3.1.7

ISO 27799-2008 7.8.4

ISO/IEC 27002:2005 11.5.1

ISO/IEC 27002:2005 13.1.1

ISO/IEC 27002:2013 7.2.2

ISO/IEC 27002:2013 9.4.2

MARS-E v2 AC-10

MARS-E v2 AC-7

MARS-E v2 AC-9

MARS-E v2 AT-2

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 AC-10

NIST SP 800-53 R4 AC-7

NIST SP 800-53 R4 AC-9

NIST SP 800-53 R4 AT-2

**Level CMS Implementation Requirements Level CMS Implementation:**

The number of concurrent network sessions for a user shall be limited and enforced to one (1) session. The number of concurrent application/process sessions shall be limited and enforced to the number of sessions expressly required for the performance of job duties. The requirement and use of more than one (1) application/process session for each user shall be documented in the system security profile.

The information system notifies the user, upon successful logon (access) to the system, of the date and time of the last logon (access).

The organization shall configure the information system to lock out the user account automatically after three (3) invalid login attempts during a one (1) hour time period. The lock out shall persist for a minimum of three (3) hours unless unlocked by an administrator. The control applies whether the login occurs via a local or network connection.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The number of concurrent network sessions for a user is limited and enforced to three (3) sessions for privileged access and two (2) sessions for non-privileged

access.

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**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** Automatically lock the account/node until an authorized system administrator reinstates the account.

**Control Reference: 01.q User Identification and Authentication**

**Control Specification:**

All users shall have a unique identifier (user ID) for their personal use only, and an authentication technique shall be implemented to substantiate the claimed identity of a user.

\*Required for HITRUST Certification CSF v9

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Factor Type:** | System |  |  |
|  |  |  | | |
|  | **Topics:** | Authentication; User Access | | |
|  |  |  | | |
|  | **Level 1 Implementation Requirements** | | | |
|  |  |  |  |  |
|  | **Level 1** |  |  |  |
|  | **Organizational Factors:** |  |  |  |
|  |  |  |  |  |
|  | **Level 1** | Applicable to all systems | | |
|  | **System Factors:** |
|  |  |  |  |
|  |  |  | | |
|  | **Level 1** | Subject to HITRUST De-ID Framework Requirements | | |
|  | **Regulatory Factors:** | Subject to State of Massachusetts Data Protection Act | | |
|  |  | Subject to Texas Health and Safety Code | | |
|  |  |  |  |  |
|  | **Level 1 Implementation:** | Before allowing access to system components or data, the organization shall | | |
|  |  |
|  |  | require verifiable unique IDs for all types of users including, but not limited to: | | |
|  |  | 1. | technical support personnel; | |
|  |  | 2. | operators; | |
|  |  | 3. | network administrators; | |
|  |  | 4. | system programmers; and | |
|  |  | 5. | database administrators. | |
|  |  | The following shall be required for each category of User ID: | | |
|  |  | 1. | regular User IDs: | |
|  |  |  | i. | user IDs shall be used to trace activities to the responsible |
|  |  |  |  | individual; and |
|  |  |  | ii. regular user activities shall not be performed from privileged | |
|  |  |  |  | accounts. |
|  |  | 2. | shared user / group IDs: | |
|  |  |  | i. | in exceptional circumstances, where there is a clear |
|  |  |  |  | business/clinical benefit, the use of a shared user ID for a group |
|  |  |  |  | of users or a specific job can be used; |
|  |  |  | ii. approval by management shall be documented for such cases; | |
|  |  |  |  | and |

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|  |  |
| --- | --- |
|  | iii. additional controls are required to maintain accountability. |
|  | 3. generic IDs: |
|  | i. generic IDs for use by an individual shall only be allowed either |
|  | where the functions accessible or actions carried out by the ID do |
|  | not need to be traced (e.g., read only access). |
|  | The organization shall ensure that redundant user IDs are not issued to other |
|  | users. |
|  | Non-organizational users (all information system users other than organizational |
|  | users, such as patients, contractors, or foreign nationals), or processes acting on |
|  | behalf of non-organizational users, determined to need access to information |
|  | residing on the organization's information systems or contributing information |
|  | (e.g., ePHI and in particular PMI data) to the organization, shall be uniquely |
|  | identified and authenticated in accordance with the requirements outlined above |
|  | and CSF control 01.d. |
|  | Users shall be uniquely identified and authenticated for both local and remote |
|  | accesses to information systems using a username and password (see 01.d) at a |
|  | minimum or preferably a username and password supplemented or replaced by |
|  | risk-based (non-static) and/or strong authentication methods. Access to PMI data |
|  | and any other data deemed extremely sensitive (e.g., by statute) is considered |
|  | privileged and requires multi-factor authentication. The requirement for risk-based, |
|  | strong and multi-factor authentication methods shall be determined by the |
|  | organization's risk assessment and its application commensurate with the type of |
|  | data, level of sensitivity of the information, and user type. |
|  | Electronic signatures, unique to one individual, ensures that the signature cannot |
|  | be reused by, or reassigned to, anyone else. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.04(1)(a) |
|  |
|  | 201 CMR 17.04(2)(b) |
|  | 21 CFR Part 11.10(d) |
|  | 21 CFR Part 11.10(g) |
|  | 21 CFR Part 11.100(a) |
|  | 23 NYCRR 500.12(a) |
|  | AICPA CC5.1 |
|  | AICPA CC5.3 |
|  | CMSRs 2013v2 AC-6(2)(HIGH) |
|  | CMSRs 2013v2 CM-8(3)(HIGH) |
|  | CMSRs 2013v2 IA-2 (HIGH) |
|  | CMSRs 2013v2 IA-4 (HIGH) |
|  | CMSRs 2013v2 IA-8 (HIGH) |
|  | COBIT 4.1 DS5.3 |
|  | COBIT 5 DSS05.04 |
|  | CRR V2016 CCM:G2.Q4 |
|  |  |

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CSA CCM v3.0.1 IAM-04

De-ID Framework v1 Identification and Authentication (System-level): Authentication Policy

De-ID Framework v1 Identification and Authentication: Authentication Policy

FedRAMP AC-6(2)

FedRAMP IA-2

FedRAMP IA-3

FedRAMP IA-4

FedRAMP IA-8

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.312(a)(2)(i)

HIPAA § 164.312(d)

IRS Pub 1075 v2014 9.3.7.2

IRS Pub 1075 v2014 9.3.7.4

IRS Pub 1075 v2014 9.3.7.8

ISO/IEC 27002:2005 11.2.1

ISO/IEC 27002:2005 11.5.2

ISO/IEC 27002:2013 9.2.1

ISO/IEC 27002:2013 9.2.3

MARS-E v2 AC-6(2)

MARS-E v2 IA-2

MARS-E v2 IA-4

MARS-E v2 IA-8

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AT-2

NIST SP 800-53 R4 AC-6(2)

NIST SP 800-53 R4 IA-2

NIST SP 800-53 R4 IA-4

NIST SP 800-53 R4 IA-8

NRS 603A.215.1

PCI DSS v3.2 12.3.2

PCI DSS v3.2 8.1

PCI DSS v3.2 8.1.1

PCI DSS v3.2 8.5

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 1 CORE 153: Eligibility and Benefits Connectivity Rule v1.1.0 Subsection 5.1

PMI DSP Framework PR.AC-1

PMI DSP Framework PR.AC-2

PMI DSP Framework PR.AC-3

**Level 2 Implementation Requirements**

**Level 2**

**Organizational Factors:**

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|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Internet: Yes |
|  | **System Factors:** | Third-Party Accessible: Yes |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Appropriate authentication methods including strong authentication methods in |
|  |  | addition to passwords shall be used for communicating through an external, non- |
|  |  | organization-controlled network (e.g., the Internet). |
|  |  | Help desk support shall require user identification for any transaction that has |
|  |  | information security implications. |
|  |  | During the registration process to provide new or replacement hardware tokens, |
|  |  | in-person verification shall be required in front of a designated registration |
|  |  | authority with authorization by a designated organizational official (e.g., a |
|  |  | supervisor). |
|  |  | The information system, for hardware token-based authentication, employs |
|  |  | mechanisms that satisfy minimum token requirements discussed in NIST SP 800- |
|  |  | 63-2, Electronic Authentication Guideline. |
|  |  | When PKI-based authentication is used, the information system: validates |
|  |  | certificates by constructing a certification path with status information to an |
|  |  | accepted trust anchor; |
|  |  | 1. validates certificates by constructing and verifying a certification path to |
|  |  | an accepted trust anchor including checking certificate status information; |
|  |  | 2. enforces authorized access to the corresponding private key; |
|  |  | 3. maps the authenticated identity to the account of the individual or group; |
|  |  | and |
|  |  | 4. implements a local cache of revocation data to support path discovery |
|  |  | and validation in case of an inability to access revocation information via |
|  |  | the network. |
|  |  | The information system shall use replay-resistant authentication mechanisms |
|  |  | such as nonce, one-time passwords, or time stamps (e.g., Kerberos, TLS, etc.) for |
|  |  | network access to privileged accounts. |
|  |  | The organization requires that access for all accounts, including those for network |
|  |  | and security devices, is to be obtained through a centralized point of |
|  |  | authentication, for example Active Directory or LDAP. |
|  |  | Electronic signatures based upon biometrics are designed to ensure that they |
|  |  | cannot be used by any individual other than their genuine owners. |
|  |  | Electronic signatures and handwritten signatures executed to electronic records |
|  |  | shall be linked to their respective electronic records to ensure that the signatures |
|  |  | cannot be excised, copied, or otherwise transferred to falsify an electronic record |
|  |  | by ordinary means. |
|  |  |  |

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|  |  |
| --- | --- |
|  | Signed electronic records shall contain information associated with the singing |
|  | that clearly indicates the following in human-readable format: |
|  | 1. Printed name of the signer |
|  | 2. The date and time when the signature was executed; and |
|  | 3. The meaning of the signature (e.g., review, approval, responsibility, |
|  | authorship) |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 21 CFR Part 11.200(b) |
| **Mapping:** | 21 CFR Part 11.50(b) |
|  |
|  | 21 CFR Part 11.70 |
|  | 21 CFR Part11.50(a) |
|  | 23 NYCRR 500.12(b) |
|  | CIS CSC v6 11.4 |
|  | CIS CSC v6 16.11 |
|  | CIS CSC v6 16.9 |
|  | CMSRs 2013v2 IA-2 (HIGH) |
|  | CMSRs 2013v2 IA-2(11) (HIGH) |
|  | CMSRs 2013v2 IA-2(8) (HIGH) |
|  | CMSRs 2013v2 IA-5 (HIGH) |
|  | CMSRs 2013v2 IA-5(11) (HIGH) |
|  | CMSRs 2013v2 IA-5(2) (HIGH) |
|  | CMSRs 2013v2 IA-5(3) (HIGH) |
|  | FedRAMP IA-2 |
|  | FedRAMP IA-2(8) |
|  | FedRAMP IA-5 |
|  | FedRAMP IA-5(11) |
|  | FedRAMP IA-5(2) |
|  | FedRAMP IA-5(3) |
|  | HIPAA § 164.308(a)(5)(ii)(D) |
|  | HIPAA § 164.312(d) |
|  | IRS Pub 1075 v2014 9.3.7.2 |
|  | IRS Pub 1075 v2014 9.3.7.5 |
|  | ISO 27799-2008 7.8.4 |
|  | ISO 27799-2008 7.8.5.1 |
|  | ISO/IEC 27002:2005 11.3.1 |
|  | ISO/IEC 27002:2005 11.5.2 |
|  | ISO/IEC 27002:2013 9.2.1 |
|  | MARS-E v2 IA-2 |
|  | MARS-E v2 IA-2(8) |
|  | MARS-E v2 IA-5 |
|  | MARS-E v2 IA-5(2) |
|  | MARS-E v2 IA-5(3) |
|  |  |

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NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.MA-2

NIST SP 800-53 R4 IA-2

NIST SP 800-53 R4 IA-2(11)

NIST SP 800-53 R4 IA-2(8)

NIST SP 800-53 R4 IA-5

NIST SP 800-53 R4 IA-5(11)

NIST SP 800-53 R4 IA-5(2)

NIST SP 800-53 R4 IA-5(3)

NIST SP 800-53 R4 IA-5(7)

NRS 603A.215.1

PCI DSS v3.2 8.2.2

PCI DSS v3.2 8.3

PCI DSS v3.2 8.5.1

PCI DSS v3.2 8.6

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
|  |  |
| **Level 3** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall employ multifactor authentication for remote network |
|  | access to privileged and non-privileged accounts such that one of the factors is |
|  | provided by a device separate from the system gaining access. The organization |
|  | shall employ multifactor authentication for local access to privileged accounts |
|  | (including those used for non-local maintenance and diagnostic sessions). |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 16.12 |
| **Mapping:** | CIS CSC v6 5.6 |
|  |
|  | CIS CSC v6 5.7 |
|  | CMSRs 2013v2 IA-2(1) (HIGH) |
|  | CMSRs 2013v2 IA-2(11) (HIGH) |
|  | CMSRs 2013v2 IA-2(12) (HIGH) |
|  | CMSRs 2013v2 IA-2(2) (HIGH) |
|  |  |

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CMSRs 2013v2 IA-2(3) (HIGH)

CMSRs 2013v2 IA-2(4) (HIGH)

FedRAMP IA-2(1)

FedRAMP IA-2(11)

FedRAMP IA-2(12)

FedRAMP IA-2(2)

FedRAMP IA-2(3)

HIPAA § 164.312(d)

IRS Pub 1075 v2014 9.3.7.2

IRS Pub 1075 v2014 9.4.2 (E.10)

MARS-E v2 IA-2(1)

MARS-E v2 IA-2(2)

MARS-E v2 IA-2(3)

NIST SP 800-53 R4 IA-2(1)

NIST SP 800-53 R4 IA-2(11)

NIST SP 800-53 R4 IA-2(12)

NIST SP 800-53 R4 IA-2(2)

NIST SP 800-53 R4 IA-2(3)

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization requires access for all accounts, including those for network and security devices, to be obtained through a centralized point of authentication, for example Active Directory or LDAP.

Where multi-factor authentication is not supported for these use cases, users shall be required to use long passwords on the system of at least fourteen (14) characters.

**Level CMS Implementation Requirements Level CMS Implementation:**

The information system shall use multifactor authentication for local access to non-privileged accounts.

The information system shall use replay-resistant authentication mechanisms such as nonce, one-time passwords, or time stamps (e.g., Kerberos, TLS, etc.) for network access to non-privileged accounts.

A risk assessment is used in determining the authentication needs of the organization. The information system, for hardware token-based authentication, employs mechanisms that satisfy minimum token requirements discussed in the Risk Management Handbook (RMH), Volume III, Standard 3.1, CMS Authentication Standards.

**Level FedRAMP Implementation Requirements**

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**Level FedRAMP Implementation:**

The organization requires individuals to be authenticated with an individual authenticator as a second level of authentication when a group authenticator is employed.

The organization manages individual identifiers, such as on personnel badges or email, by uniquely identifying each individual as an employee, contractor, volunteer, student or other such organization-defined classification.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Complete section 2.10 (e-Authentication level) in the SSP Template.

Two-factor authentication is required whenever FTI is being accessed from an alternative work location or if accessing FTI via an agency's Web portal by an employee or contractor.

The agency shall configure the Web services to be authenticated before access is granted to users via an authentication server. All Web portal and two-factor authentication requirements apply in a data warehouse environment.

Authentication shall be required both at the operating system level and at the application level, whenever the data warehousing environment is accessed.

**Level HIX Implementation Requirements Level HIX Implementation:**

The information system, for hardware token-based authentication, employs organization-specified mechanisms that satisfy generally acceptable minimum token requirements.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall not use group, shared, or generic IDs, passwords, or other authentication methods as follows:

1. generic user IDs are disabled or removed.
2. shared user IDs do not exist for system administration and other critical functions.
3. shared and generic user IDs are not used to administer any system components.

Where other authentication mechanisms are used (e.g., physical or logical security tokens, smart cards, and certificates), use of these mechanisms shall be assigned as follows:

1. authentication mechanisms must be assigned to an individual account and not shared among multiple accounts.
2. Physical and/or logical controls must be in place to ensure only the intended account can use that mechanism to gain access.

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Service providers with remote access to customer premises (for example, for support of POS systems or servers) must use a unique authentication credential (such as a password/phrase for each customer).

**Control Reference: 01.r Password Management System**

|  |  |
| --- | --- |
| **Control Specification:** | Systems for managing passwords shall be interactive and shall ensure quality |
|  |
|  | passwords. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Cryptography; Password Management |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | Refer to Sections 1.b and 1.f for a full list of password controls. |
|  |
|  | In addition, a password management system shall be implemented to: |
|  | 1. require the use of individual user IDs and passwords to maintain |
|  | accountability; |
|  | 2. allow users to select and change their own passwords and include a |
|  | confirmation procedure to allow for input errors; |
|  | 3. force users to change temporary passwords at the first log-on (see 01.b); |
|  | 4. not display passwords on the screen when being entered; and |
|  | 5. always change vendor-supplied defaults before installing a system on the |
|  | network including passwords, simple network management protocol |
|  | (SNMP) community strings and the elimination of unnecessary accounts. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.04(1)(b) |
|  |
|  | AICPA CC5.1 |
|  | AICPA CC5.3 |
|  | CMSRs 2013v2 IA-5 (HIGH) |
|  | FedRAMP IA-5 |
|  | HIPAA § 164.308(a)(5)(ii)(D) |
|  | IRS Pub 1075 v2014 9.3.7.5 |
|  | ISO/IEC 27002:2005 11.2.3 |
|  | ISO/IEC 27002:2005 11.5.3 |
|  |  |

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ISO/IEC 27002:2013 9.2.4

ISO/IEC 27002:2013 9.4.3

MARS-E v2 IA-5

NIST Cybersecurity Framework PR.AC-1

NIST SP 800-53 R4 IA-2

NIST SP 800-53 R4 IA-5

NRS 603A.215.1

PCI DSS v3.2 2.1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 1 CORE 153: Eligibility and Benefits Connectivity Rule v1.1.0 Subsection 5.1

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Internet: Yes |
| **System Factors:** | Number of users of the system: 500 to 5,500 |
|  | Public Access: Yes |
|  | Third-Party Accessible: Yes |
|  | Third-Party Exchange: Yes |
|  |  |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Refer to Sections 1.b and 1.f for a full list of password controls. |
|  | The password management system shall: |
|  | 1. store and transmit passwords in protected (e.g., encrypted or hashed) |
|  | form; |
|  | 2. store password files separately from application system data; |
|  | 3. enforce a choice of quality passwords (see 01.b); |
|  | 4. enforce password changes (see 01.b); and |
|  | 5. maintain a record of previous user passwords and prevent re-use (see |
|  | 01.b). |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 201 CMR 17.04(1)(c) |
| **Mapping:** | CMSRs 2013v2 IA-5 (HIGH) |
|  |
|  | CMSRs 2013v2 IA-5(1) (HIGH) |
|  | FedRAMP IA-5 |
|  | HIPAA § 164.308(a)(5)(ii)(D) |
|  | IRS Pub 1075 v2014 9.3.7.5 |
|  |  |

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ISO/IEC 27002:2005 11.5.3

ISO/IEC 27002:2013 9.4.3

MARS-E v2 IA-5

MARS-E v2 IA-5(1)

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 IA-5

NIST SP 800-53 R4 IA-5(1)

NRS 603A.215.1

PCI DSS v3.2 8.2.1

**Level CMS Implementation Requirements Level CMS Implementation:**

The CMS information system for PKI-based authentication shall:

1. validate certificates by constructing a certification path with status information to an accepted trust anchor;
2. enforce authorized access to the corresponding private key; and
3. map the authenticated identity to the user account.

**Control Reference: 01.s Use of System Utilities**

|  |  |
| --- | --- |
| **Control Specification:** | The use of utility programs that might be capable of overriding system and |
|  | application controls shall be restricted and tightly controlled. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authorization; Monitoring; Network Segmentation |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The use of system utilities (e.g., administrative tools in Windows, the settings |
|  |
|  | section--specifically network/device/security configuration--on VoIP phones, etc.) |
|  | shall be controlled by implementing the following: |
|  | 1. use of identification, authentication, and authorization procedures for |
|  | system utilities; |
|  | 2. segregation of system utilities from applications software; and |
|  | 3. limitation of the use of system utilities to the minimum practical number of |
|  | trusted, authorized users (see CSF control 01.b thru 01.o). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
|  |  |

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**Control Standard Mapping:**

1 TAC § 390.2(a)(4)(A)(xi)

AICPA CC5.1

CMSRs 2013v2 AC-6 (HIGH)

CSA CCM v3.0.1 IAM-13

FedRAMP AC-6

FFIEC IS v2016 A.6.21(a)

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.308(a)(4)(ii)(A)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(a)(4)(ii)(C)

HIPAA § 164.310(a)(2)(iii)

HIPAA § 164.310(b)

HIPAA § 164.312(a)(1)

HIPAA § 164.312(a)(2)(i)

HIPAA § 164.312(a)(2)(ii)

HIPAA § 164.312(a)(2)(iv)

IRS Pub 1075 v2014 9.3.1.6

ISO/IEC 27002:2005 11.5.4

ISO/IEC 27002:2013 9.4.4

MARS-E v2 AC-6

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 AC-6

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Internet: Yes |
|  | **System Factors:** | Number of Interfaces: 25 to 75 |
|  |  | Public Access: Yes |
|  |  | Third-Party Accessible: Yes |
|  |  | Third-Party Exchange: Yes |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |

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**Level 2 Implementation:**

Level 1 plus:

The use of system utilities shall be controlled by implementing the following:

1. authorization for ad hoc use of systems utilities;
2. limitation of the availability of system utilities (e.g., limitation of availability by setting restrictive file system-level permissions for the access and execution of system utilities such as cmd.exe, ping, tracert, ipconfig, ifconfig, etc.);
3. disable public "read" access to files, objects, and directories;
4. logging of all use of system utilities;
5. defining and documenting authorization levels for system utilities;
6. deletion of, or file system file execution permission denial of, all unnecessary software based utilities and system software; and
7. not making system utilities available to users who have access to applications on systems where segregation of duties is required.

The information system owner shall regularly review the system utilities available to identify and eliminate unnecessary functions, such as scripts, drivers, features, subsystems, file systems, and unnecessary Web servers. Public "read" and "write" access to all system files, objects, and directories shall be disabled.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-3 (HIGH) |
| **Mapping:** | COBIT 4.1 DS5.7 |
|  |
|  | COBIT 5 DSS05.05 |
|  | FedRAMP AC-3 |
|  | FFIEC IS v2016 A.6.21(a) |
|  | HIPAA § 164.308(a)(3)(i) |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(4)(i) |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.310(a)(2)(iii) |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.312(a)(1) |
|  | HIPAA § 164.312(b) |
|  | IRS Pub 1075 v2014 9.3.1.3 |
|  | ISO 27799-2008 7.8.4 |
|  | ISO/IEC 27002:2005 11.5.4 |
|  | ISO/IEC 27002:2013 9.4.4 |
|  | MARS-E v2 AC-3 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST Cybersecurity Framework PR.PT-3 |
|  | NIST SP 800-53 R4 AC-3 |
|  | NIST SP 800-53 R4 AU-2 |
|  | NIST SP 800-53 R4 SC-2 |

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NRS 603A.215.1

PCI DSS v3.2 2.2.5

**Control Reference: 01.t Session Time-out**

|  |  |
| --- | --- |
| **Control Specification:** | Inactive sessions shall shut down after a defined period of inactivity. |
|  |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to PCI Compliance |
|  | Subject to Texas Health and Safety Code |
|  |  |
| **Level 1 Implementation:** | A time-out system that conceals information previously visible on the display with |
|  |
|  | a publicly viewable image (e.g., a screen saver) shall pause the session screen |
|  | after fifteen (15) minutes of inactivity and closes network sessions after thirty (30) |
|  | minutes of inactivity. The system shall require the user to reestablish access using |
|  | appropriate identification and authentication procedures. |
|  | A limited form of time-out system can be provided for legacy systems that cannot |
|  | be modified to accommodate this requirement, which clears the screen and |
|  | prevents unauthorized access through re-authentication requirements to continue |
|  | the active session but does not close down the application or network sessions. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 21 CFR Part 11.10(d) |
|  |
|  | AICPA CC5.3 |
|  | CIS CSC v6 16.4 |
|  | CIS CSC v6 16.5 |
|  | CMSRs 2013v2 AC-11 (HIGH) |
|  | CMSRs 2013v2 AC-11(1) (HIGH) |
|  | CSA CCM v3.0.1 AIS-04 |
|  | CSA CCM v3.0.1 MOS-14 |
|  | FedRAMP AC-11 |
|  | FedRAMP AC-11(1) |
|  |  |

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FedRAMP AC-12

HIPAA § 164.310(b)

HIPAA § 164.312(a)(2)(iii)

IRS Pub 1075 v2014 9.3.1.10

IRS Pub 1075 v2014 9.3.1.9

ISO 27799-2008 7.8.4

ISO/IEC 27002:2005 11.5.5

ISO/IEC 27002:2013 9.4.2

MARS-E v2 AC-11

MARS-E v2 AC-11(1)

MARS-E v2 AC-12

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 AC-11

NIST SP 800-53 R4 AC-11(1)

NIST SP 800-53 R4 AC-12

NRS 603A.215.1

PCI DSS v3.2 12.3.8

PCI DSS v3.2 8.1.8

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Public Access: Yes |
| **System Factors:** |
|  |
|  |  |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | A time-out system (e.g., a screen saver) shall pause the session screen after two |
|  | (2) minutes of inactivity and closes network sessions after thirty (30) minutes of |
|  | inactivity. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-11 (HIGH) |
| **Mapping:** | CMSRs 2013v2 AC-11(1) (HIGH) |
|  |
|  | CMSRs 2013v2 AC-12 (HIGH) |
|  | CMSRs 2013v2 SC-10 (HIGH) |
|  | FedRAMP AC-12 |
|  |  |

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FedRAMP AC-2(5)

FedRAMP SC-10

HIPAA § 164.310(b)

HIPAA § 164.312(a)(2)(iii)

IRS Pub 1075 v2014 9.3.1.10

IRS Pub 1075 v2014 9.3.1.9

IRS Pub 1075 v2014 9.3.16.7

ISO/IEC 27002:2005 11.5.5

ISO/IEC 27002:2013 9.4.2

MARS-E v2 AC-11

MARS-E v2 AC-11(1)

MARS-E v2 SC-10

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 SC-10

NRS 603A.215.1

PCI DSS v3.2 12.3.8

PCI DSS v3.2 8.1.8

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization requires that users log out when the time-period of expected inactivity exceeds ninety (90) minutes.

The information system shall automatically terminate the network connection associated with a communications session at the end of the session (as specified by the appropriate CSF level), OR:

1. forcibly de-allocate communications session Dynamic Host Configuration Protocol (DHCP) leases after seven (7) days or other organization-defined time period; AND
2. forcibly disconnect inactive Virtual Private Network (VPN) connections after thirty (30) minutes of inactivity or other organization-defined time period.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The organization forcibly disconnects inactive VPN connections after fifteen (15) minutes of inactivity.

The information system must automatically terminate a user session after fifteen (15) minutes of inactivity.

**Level HIX Implementation Requirements Level HIX Implementation:**

The information system automatically terminates the network connection

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associated with a communications session at the end of the session, or:

1. Forcibly de-allocates communications session Dynamic Host Configuration Protocol (DHCP) leases after seven (7) days; and
2. Forcibly disconnects inactive Virtual Private Network (VPN) connections after thirty (30) minutes of inactivity.

**Control Reference: 01.u Limitation of Connection Time**

|  |  |
| --- | --- |
| **Control Specification:** | Restrictions on connection times shall be used to provide additional security for |
|  | high-risk applications. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authentication; Authorization; User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Internet: Yes |
| **System Factors:** | Public Access: Yes |
|  | Third-Party Accessible: Yes |
|  | Third-Party Exchange: Yes |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Connection time controls shall be implemented for sensitive computer |
|  |
|  | applications, especially from high-risk locations (e.g., public or external areas that |
|  | are outside the organization's security management) including: |
|  | 1. using predetermined time slots (e.g., for batch file transmissions or |
|  | regular interactive sessions of short duration); |
|  | 2. restricting connection times to normal office hours if there is no |
|  | requirement for overtime or extended-hours operation; and |
|  | 3. re-authentication at timed intervals. |
|  |  |
| **Level 1** | 21 CFR Part 11.10(d) |
| **Control Standard** | AICPA CC5.3 |
| **Mapping:** | FFIEC IS v2016 A.6.22(e) |
|  |
|  | ISO 27799-2008 7.8.4 |
|  | ISO/IEC 27002:2005 11.5.6 |
|  | ISO/IEC 27002:2013 9.4.2 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST Cybersecurity Framework PR.PT-3 |
|  | NIST Cybersecurity Framework PR.PT-4 |
|  | NIST SP 800-53 R4 IA-11 |
|  | NIST SP 800-53 R4 SC-43 |
|  |  |

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**Objective Name: 01.06 Application and Information Access Control**

|  |  |
| --- | --- |
| **Control** | To prevent unauthorized access to information held in application systems. |
| **Objective:** |

**Control Reference: 01.v Information Access Restriction**

|  |  |
| --- | --- |
| **Control Specification:** | Logical and physical access to information and application systems and functions |
|  |
|  | by users and support personnel shall be restricted in accordance with the defined |
|  | access control policy. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authentication; Policies and Procedures; User Access; Viruses and Malware |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | Restrictions to access shall be based on individual business application |
|  |
|  | requirements and in accordance with the access control policy. |
|  | The following guidelines shall be implemented in order to support access |
|  | restriction requirements: |
|  | 1. providing menus to control access to application system functions; and |
|  | 2. controlling the access rights of users (e.g., read, write, delete, and |
|  | execute). |
|  | Associated identification and authentication controls shall be developed, |
|  | disseminated, and periodically reviewed and updated, including: |
|  | 1. specific user actions that can be performed on the information system |
|  | without identification or authentication shall be identified and supporting |
|  | rationale documented; |
|  | 2. actions to be performed without identification and authentication shall be |
|  | permitted only to the extent necessary to accomplish mission objectives; |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 21 CFR Part 11.10(d) |
|  |
|  | 21 CFR Part 11.10(g) |
|  |  |

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AICPA CC5.1

CMSRs 2013v2 AC-14(HIGH)

CMSRs 2013v2 AC-6 (HIGH)

CRR V2016 CCM:G2.Q4

CSA CCM v3.0.1 IAM-09

FedRAMP AC-14

FedRAMP AC-6

FFIEC IS v2016 A.6.22(a)

FFIEC IS v2016 A.6.22(b)

FFIEC IS v2016 A.6.27(a)

FFIEC IS v2016 A.6.27(b)

FFIEC IS v2016 A.6.8(a)

FFIEC IS v2016 A.6.8(c)

FFIEC IS v2016 A.8.1(k)

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.308(a)(4)(ii)(A)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(a)(4)(ii)(C)

HIPAA § 164.310(b)

HIPAA § 164.312(a)(1)

HIPAA § 164.312(a)(2)(i)

HIPAA § 164.312(a)(2)(ii)

HIPAA § 164.312(a)(2)(iv)

IRS Pub 1075 v2014 9.3.1.11

IRS Pub 1075 v2014 9.3.1.6

ISO/IEC 27002:2005 11.6.1

ISO/IEC 27002:2013 9.4.1

MARS-E v2 AC-14

MARS-E v2 AC-6

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 AC-14

NIST SP 800-53 R4 AC-6

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

**Level 2**

**Organizational Factors:**

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|  |  |
| --- | --- |
| **Level 2** | Number of Interfaces: 25 to 75 |
| **System Factors:** | Number of users of the system: 500 to 5,500 |
|  |  |
| **Level 2** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  | Subject to the EU GDPR |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The following guidelines shall be implemented in order to support access |
|  | restriction requirements: |
|  | 1. controlling access rights to other applications according to applicable |
|  | access control policies; |
|  | 2. ensuring that outputs from application systems handling covered |
|  | information contain only the information relevant to the use of the output |
|  | and are sent only to authorized terminals and locations; and |
|  | 3. performing periodic reviews of such outputs to ensure that redundant |
|  | information is removed. |
|  | When encryption of stored information is employed as an access enforcement |
|  | mechanism, it shall be encrypted using validated cryptographic modules (see |
|  | 06.d). |
|  | Data stored in the information system shall be protected with system access |
|  | controls including file system, network share, claims, application, and/or database |
|  | specific access control lists and shall be encrypted when residing in non-secure |
|  | areas. |
|  | Specific user actions that can be performed on the information system without |
|  | identification or authentication shall be identified and supporting rationale |
|  | documented. Actions to be performed without identification and authentication |
|  | shall be permitted only to the extent necessary to accomplish mission objectives. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 14.14 |
| **Mapping:** | CMSRs 2013v2 AC-14(HIGH) |
|  |
|  | CMSRs 2013v2 AC-3 (HIGH) |
|  | CMSRs 2013v2 AC-3(HIGH) |
|  | CMSRs 2013v2 DM-1 (HIGH) |
|  | CMSRs 2013v2 SC-13(HIGH) |
|  | CMSRs 2013v2 SC-15(HIGH) |
|  | CRR V2016 CM:G2.Q3 |
|  | FedRAMP AC-4 |
|  | FedRAMP SC-13 |
|  | FedRAMP SC-15 |
|  |  |

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FFIEC IS v2016 A.6.27(f)

FFIEC IS v2016 A.8.1(k)

GDPR Article 32(1)(a)

HIPAA § 164.308(a)(3)(i)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.310(b)

HIPAA § 164.312(a)(1)

HIPAA § 164.312(a)(2)(iv)

IRS Pub 1075 v2014 4.7.2

IRS Pub 1075 v2014 9.3.1.11

IRS Pub 1075 v2014 9.3.1.3

IRS Pub 1075 v2014 9.3.1.4

IRS Pub 1075 v2014 9.3.16.10

IRS Pub 1075 v2014 9.3.77

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO/IEC 27002:2005 11.6.1

ISO/IEC 27002:2013 9.4.1

MARS-E v2 AC-14

MARS-E v2 AC-3

MARS-E v2 DM-1

MARS-E v2 SC-13

MARS-E v2 SC-15

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AC-14

NIST SP 800-53 R4 AC-3

NIST SP 800-53 R4 DM-1

NIST SP 800-53 R4 SC-13

NIST SP 800-53 R4 SC-15

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 3** | Internet: Yes |
|  | **System Factors:** | Third-Party Accessible: Yes |
|  |  |  |
|  | **Level 3** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to PCI Compliance |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | For individuals accessing sensitive information (e.g., covered information, |
|  | cardholder data) from a remote location, prohibit the copy, move, print (and print |
|  | screen) and storage of this information onto local hard drives and removable |
|  | electronic media, unless explicitly authorized for a defined business need. |
|  | The organization shall restrict the use of database management utilities to only |
|  | authorized database administrators. Users shall be prevented from accessing |
|  | database data files at the logical data view, field, or field-value levels. Column- |
|  | level access controls shall be implemented to restrict database access. |
|  |  |
| **Level 3** | CMSRs 2013v2 AC-6(HIGH) |
| **Control Standard** | FedRAMP AC-6 |
| **Mapping:** | FFIEC IS v2016 A.6.29 |
|  |
|  | HIPAA § 164.308(a)(3)(i) |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(4)(i) |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.312(a)(1) |
|  | MARS-E v2 AC-6 |
|  | NIST Cybersecurity Framework PR.AC-3 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST Cybersecurity Framework PR.PT-2 |
|  | NIST Cybersecurity Framework PR.PT-3 |
|  | NIST SP 800-53 R4 AC-6 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 12.3.10 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

Encryption as access enforcement shall extend to all government and non-government furnished desktop computers that store sensitive information.

While encryption is the preferred technical solution for protection of sensitive information on all desktop computers, adequate physical security controls and other management controls are acceptable mitigations for the protection of desktop computers with the approval of the CIO or his/her designated representative.

If encryption is used as an access control mechanism it must meet CMS approved (FIPS 140-2 compliant and a NIST validated module) encryption standards.

**Level FTI Custodians Implementation Requirements**

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**Level FTI Custodians Implementation:**

Access to FTI must be explicitly authorized strictly on a need-to-know basis. FTI must never be indiscriminately disseminated, even within the recipient agency, body, or commission. No person should be given more FTI than is needed for performance of his/her duties.

Document and provide supporting rationale in the SSR for the information system the user actions not requiring identification or authentication.

The organization shall ensure that only authorized users with a demonstrated need-to-know can query FTI data within a data warehouse.

To use a virtual environment that receives, processes, stores, or transmits FTI, the agency must restrict access to FTI to authorized users when FTI is stored in a shared location.

**Level PCI Implementation Requirements Level PCI Implementation:**

Where there is an authorized business need to allow the copying, moving, and storage of cardholder data onto local hard drives and removable electronic media for personnel accessing cardholder data via remote-access technologies, the organizations usage policies shall require the data to be protected in accordance with all applicable PCI DSS requirements.

All access to any database containing cardholder data (including access by applications, administrators, and all other users) is restricted as follows:

1. all user access to, user queries of, and user actions on databases are through programmatic methods.
2. only database administrators have the ability to directly access or query databases.

Application IDs for database applications can only be used by the applications (and not by individual users or other non-application processes).

**Control Reference: 01.w Sensitive System Isolation**

|  |  |
| --- | --- |
|  |  |
| **Control Specification:** | Sensitive systems shall have a dedicated and isolated computing environment. |
|  |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | IT Organization and Management Roles and Responsibilities; Network |
|  | Segmentation; Network Security |
|  |  |

**Level 1 Implementation Requirements**

**Level 1**

**Organizational Factors:**

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|  |  |
| --- | --- |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The sensitivity of an application system shall be explicitly identified and |
|  |
|  | documented by the application owner. |
|  |  |
| **Level 1** | AICPA C1.2 |
| **Control Standard** | AICPA CC5.1 |
| **Mapping:** | AICPA CC5.5 |
|  |
|  | AICPA CC5.6 |
|  | CMSRs 2013v2 RA-2(HIGH) |
|  | FedRAMP RA-2 |
|  | MARS-E v2 RA-2 |
|  | NIST Cybersecurity Framework ID.AM-5 |
|  | NIST Cybersecurity Framework ID.BE-3 |
|  | NIST SP 800-53 R4 RA-2 |
|  |  |

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Number of users of the system: 500 to 5,500 |
| **System Factors:** |
|  |
|  |  |
| **Level 2** | Subject to CRR V2016 |
| **Regulatory Factors:** |
|  |

**Level 2 Implementation:**

|  |  |  |
| --- | --- | --- |
|  |  | Level 1 plus: |
|  |  | The sensitive application system shall run on a dedicated computer, or only share |
|  |  | resources with trusted applications systems. Isolation shall be achieved using |
|  |  | physical or logical methods. When a sensitive application is to run in a shared |
|  |  | environment, the application systems with which it will share resources and the |
|  |  | corresponding risks should be identified and accepted by the owner of the |
|  |  | sensitive application. |
|  |  |  |
|  | **Level 2** | CRR V2016 CM:G2.Q2 |
|  | **Control Standard** | ISO 27799-2008 7.8.5.2 |
|  | **Mapping:** | ISO/IEC 27002:2005 11.6.2 |
|  |  |
|  |  | NIST Cybersecurity Framework ID.GV-4 |
|  |  | NIST Cybersecurity Framework PR.AC-5 |
|  |  | NIST Cybersecurity Framework PR.DS-5 |
|  |  | NIST SP 800-53 R4 SC-4 |
|  |  |  |
|  |  | **Level 3 Implementation Requirements** |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 3** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 3** | Number of users of the system: Greater than 5,500 |
| **System Factors:** |
|  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Users of shared system resources cannot intentionally or unintentionally access |
|  | information remnants, including encrypted representations of information, |
|  | produced by the actions of a prior user or system process acting on behalf of a |
|  | prior user. |
|  | System resources shared between two (2) or more users are released back to the |
|  | information system, and are protected from accidental or purposeful disclosure. |
|  | Implement only one (1) primary function per server to prevent functions that |
|  | require different security levels from co-existing on the same server. (For |
|  | example, Web servers, database servers, and DNS should be implemented on |
|  | separate servers.) If virtualization technologies are used, verify that one |
|  | component or primary function is implemented per virtual system device. |
|  | The information system maintains a separate execution domain for each |
|  | executing process. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 SC-39 (HIGH) |
| **Mapping:** | CMSRs 2013v2 SC-4 (HIGH) |
|  |
|  | CMSRs 2013v2 SC-7(21) (HIGH) |
|  | FedRAMP SC-39 |
|  | FedRAMP SC-4 |
|  | IRS Pub 1075 v2014 9.3.16.3 |
|  | IRS Pub 1075 v2014 9.4.1 |
|  | MARS-E v2 SC-39 |
|  | MARS-E v2 SC-4 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST Cybersecurity Framework PR.SC-32 |
|  | NIST SP 800-53 R4 SC-39 |
|  | PCI DSS v3.2 2.2.1 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization employs boundary protection mechanisms to separate defined information system components (defined in the applicable security plan)

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supporting CMS missions and/or business functions.

The organization ensures that system resources shared between two (2) or more users are released back to the information system, and are protected from accidental or purposeful disclosure.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

When an authorization to make further disclosures is present (e.g., agents/contractors), information disclosed outside the organization must be recorded on a separate list that reflects to whom the disclosure was made, what was disclosed, and why and when it was disclosed. Organizations transmitting FTI from one computer to another need only identify the bulk records transmitted. This identification will contain the approximate number of personal records, the date of the transmissions, the best possible description of the records, and the name of the individual making/receiving the transmission.

Software, data, and services that receive, process, store, or transmit FTI must be isolated within a cloud environment so that other cloud customers sharing physical or virtual space cannot access other customer data or applications.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization ensures that system resources shared between two (2) or more users are released back to the information system, and are protected from accidental or purposeful disclosure.

**Objective Name: 01.07 Mobile Computing and Teleworking**

**Control**

**Objective:** To ensure the security of information when using mobile computing devices and teleworking facilities.

|  |  |
| --- | --- |
| **Control Reference: 01.x Mobile Computing and Communications** | |
|  |  |
| **Control Specification:** | A formal policy shall be in place, and appropriate security measures shall be |
|  |
|  | adopted to protect against the risks of using mobile computing and |
|  | communication devices. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Communications and Transmissions; Cryptography; Data Loss Prevention; Media |
|  | and Assets; Physical and Facility Security; Policies and Procedures; Network |
|  | Security |
|  |  |

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|  |  |
| --- | --- |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** | Applicable to all Systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

The organization shall use full-disk encryption to protect the confidentiality of information on laptops and other mobile devices that support full-disk encryption. Encryption shall be required for all other mobile computing devices in accordance with the organization's data protection policy (see 06.d), and enforced through technical controls. If it is determined that encryption is not reasonable and appropriate, the organization shall document its rationale and acceptance of risk.

A mobile computing policy shall be developed and include the organization's definition of mobile devices, acceptable usage, and the requirements for physical protection, access controls, cryptographic techniques, back-ups, and virus protection. This policy shall also include rules and advice on connecting mobile devices to networks and guidance on the use of these devices in public places.

Protection shall be in place when using mobile computing devices in public places, meeting rooms and other unprotected areas outside of the organization's premises to avoid the unauthorized access to or disclosure of the information stored and processed by these devices (e.g., using cryptographic techniques). Users of mobile computing devices in public places shall take care to avoid the risk of overlooking by unauthorized persons.

The organization shall install personal firewall software or equivalent functionality on any mobile and/or employee-owned computers with direct connectivity to the Internet (for example, laptops used by employees), which are used to access the organization's network.

Suitable protection shall be given to the use of mobile devices connected to networks.

The organization shall only authorize connections of mobile devices meeting organizational usage restrictions, configuration requirements, connection requirements, and implementation guidance; enforce requirements for the connection of mobile devices to sensitive information systems; and monitor for unauthorized connections. Information system functionality on mobile devices that provides the capability for automatic execution of code without user direction shall be disabled.

Individuals shall be issued specifically configured mobile devices for travel to locations the organization deems to be of significant risk in accordance with

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|  |  |
| --- | --- |
|  | organizational policies and procedures. The devices shall be checked for malware |
|  | and physical tampering upon return from these locations. |
|  | Mobile computing devices shall also be physically protected against theft |
|  | especially when left, for example, in cars and other forms of transport, hotel |
|  | rooms, conference centers, and meeting places. A specific procedure taking into |
|  | account legal, insurance and other security requirements of the organization shall |
|  | be established for cases of theft or loss of the mobile computing devices. |
|  | Equipment carrying important, covered, and/or critical business information shall |
|  | not be left unattended without being physically protected. |
|  | Training shall be arranged for personnel using mobile computing to raise their |
|  | awareness on the additional risks resulting from this way of working and the |
|  | controls that need to be implemented. |
|  | A documented list of approved application stores has been defined as acceptable |
|  | for mobile devices accessing or storing entity (client) or cloud service provider- |
|  | managed client data, and the use of unapproved application stores is prohibited |
|  | for company-owned and BYOD mobile devices. The installation of non-approved |
|  | applications or approved applications not obtained through a pre-identified |
|  | application store is prohibited. |
|  | The organization prohibits the circumvention of built-in security controls on mobile |
|  | devices (e.g., jailbreaking or rooting). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC5.6 |
|  |
|  | AICPA CC5.7 |
|  | AICPA CC5.8 |
|  | CIS CSC v6 13.2 |
|  | CIS CSC v6 8.1 |
|  | CMSRs 2013v2 AC-19 (HIGH) |
|  | CMSRs 2013v2 AC-19(5) (HIGH) |
|  | CMSRs 2013v2 CM-2(7) (HIGH) |
|  | CMSRs 2013v2 SC-7(12) (HIGH) |
|  | CMSRs 2013v2 SI-4 (HIGH) |
|  | CSA CCM v3.0.1 HRS-05 |
|  | CSA CCM v3.0.1 MOS-02 |
|  | CSA CCM v3.0.1 MOS-03 |
|  | CSA CCM v3.0.1 MOS-05 |
|  | CSA CCM v3.0.1 MOS-10 |
|  | CSA CCM v3.0.1 MOS-11 |
|  | CSA CCM v3.0.1 MOS-12 |
|  | CSA CCM v3.0.1 MOS-17 |
|  | CSA CCM v3.0.1 MOS-18 |
|  | CSA CCM v3.0.1 MOS-19 |
|  |  |

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FedRAMP AC-19

FedRAMP AC-19(5)

FedRAMP CM-2(7)

FedRAMP SC-7(12)

FFIEC IS v2016 A.6.24

GDPR Article 32(1)(a)

HIPAA § 164.310(b)

HIPAA § 164.310(c)

IRS Pub 1075 v2014 4.5

IRS Pub 1075 v2014 9.3.1.14

IRS Pub 1075 v2014 9.4.8

ISO 27799-2008 7.8.6.1

ISO/IEC 27002:2005 11.7.1

ISO/IEC 27002:2005 4.2

ISO/IEC 27002:2005 6.2.1

ISO/IEC 27002:2005 9.2.5

ISO/IEC 27002:2013 6.2.1

MARS-E v2 AC-19

MARS-E v2 AC-19(5)

MARS-E v2 SC-7(12)

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework PR.AC-2

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.IP-1

NIST SP 800-53 R4 AC-19

NIST SP 800-53 R4 AC-19(5)

NIST SP 800-53 R4 CM-2(7)

NIST SP 800-53 R4 SI-4

NRS 603A.215.1

PCI DSS v3.2 1.4

PCI DSS v3.2 9.5

PMI DSP Framework PR.DS-1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |

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|  |  |
| --- | --- |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | A centralized, mobile device management solution shall be deployed to all mobile |
|  |
|  | devices permitted to store, transmit, or process organizational and/or customer |
|  | data. |
|  | Prohibition on the circumvention of built-in security controls on mobile devices |
|  | (e.g., jailbreaking or rooting) shall be enforced through detective and preventative |
|  | controls on the device or through a centralized device management system (e.g., |
|  | mobile device management). |
|  | All mobile devices permitted for use through the company BYOD program or a |
|  | company-assigned mobile device shall allow for remote wipe by the company's |
|  | corporate IT or shall have all company-provided data wiped by the company's |
|  | corporate IT. |
|  | Mobile devices connecting to corporate networks, or storing and accessing |
|  | company information, shall allow for remote software version/patch validation. All |
|  | mobile devices shall have the latest available security-related patches installed |
|  | upon general release by the device manufacturer or carrier and authorized IT |
|  | personnel shall be able to perform these updates remotely. |
|  |  |
| **Level 2** | CSA CCM v3.0.1 MOS-10 |
| **Control Standard** | CSA CCM v3.0.1 MOS-12 |
| **Mapping:** | CSA CCM v3.0.1 MOS-18 |
|  |
|  | CSA CCM v3.0.1 MOS-19 |
|  | FFIEC IS v2016 A.6.24 |
|  | HIPAA § 164.310(b) |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization ensures the CIO authorizes the connection of mobile devices to organizational information systems.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Purge/wipe information from mobile devices based on ten (10) consecutive, unsuccessful device logon attempts (e.g., personal digital assistants, smartphones and tablets). Laptop computers are excluded from this requirement.

To use FTI in a mobile device environment, including BYOD, the agency must meet the following mandatory requirements:

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1. Mobile device management controls must be in place that include security policies and procedures, inventory, and standardized security configurations for all devices;
2. An annual risk assessment must be conducted of the security controls in place on all devices in the mobile environment used for receiving, processing, storing, or transmitting FTI;
3. Protection mechanisms must be in place in case a mobile device is lost or stolen, e.g., all data stored on the device must be encrypted, including internal storage and removable media storage, such as Micro Secure Digital (SD) cards;
4. All data communication with the agency's internal network must be encrypted using a cryptographic module that is FIPS 140-2 compliant;
5. The agency must control end user ability to download only authorized applications to the device and must limit the accessibility to FTI by applications to only authorized applications;
6. All mobile device management servers that receive, process, store, or transmit FTI must be hardened;
7. A centralized mobile device management solution must be used to authenticate agency-issued and personally owned mobile devices prior to allowing access to the internal network;
8. Security events must be logged for all mobile devices and the mobile device management server;
9. The agency must disable wireless personal area networks that allow a mobile device to connect to a computer via Bluetooth or near field communication (NFC) for data synchronization and storage;
10. Access to hardware, such as the digital camera, global positioning system (GPS), and universal serial bus (USB) interface, must be disabled to the extent possible; and
11. Disposal of all mobile device component hardware follows the same media sanitization and disposal procedures as other media.

**Level HIX Implementation Requirements Level HIX Implementation:**

If the connection of portable and mobile devices is authorized, the organization:

1. Authorizes the connection of mobile devices to organizational information systems through the CIO;
2. Only allows the use of organization-owned mobile devices and software to process, access and store Personally Identifiable Information (PII);
3. Employs an approved method of cryptography (see SC-13) to protect information residing on portable and mobile information devices, and utilizes whole-disk encryption solution for laptops;
4. Monitors for unauthorized connections of mobile devices to information systems;
5. Enforces requirements for the connection of mobile devices to information systems;
6. Issues specially configured mobile devices to individuals traveling to locations that the organization deems to be of significant risk in accordance with organizational policies and procedures; and
7. Protects the storage and transmission of information on portable and mobile information devices with activities such as scanning the devices for malicious code, virus protection software.

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Purge/wipe information from mobile devices based on ten (10) consecutive, unsuccessful device logon attempts (e.g., personal digital assistants, smartphones and tablets, but laptop computers are excluded from this requirement).

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 01.y Teleworking** | |
|  |  |  |
|  | **Control Specification:** | A policy, operational plans and procedures shall be developed and implemented |
|  |  |
|  |  | for teleworking activities. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; Communications and Transmissions; IT Organization and |
|  |  | Management Roles and Responsibilities; Media and Assets; Personnel; User |
|  |  | Access; Network Security |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | Organizations shall only authorize teleworking activities if they are satisfied that |
|  |  |
|  |  | appropriate security arrangements and controls are in place, and that these |
|  |  | comply with the organization's security policy. Suitable protection of the |
|  |  | teleworking site shall be in place to protect against the theft of equipment and |
|  |  | information, the unauthorized disclosure of information, unauthorized remote |
|  |  | access to the organization's internal systems or misuse of facilities. |
|  |  | The following matters shall be addressed: |
|  |  | 1. the communications security requirements, taking into account the need |
|  |  | for remote access to the organization's internal systems, the sensitivity of |
|  |  | the information that will be accessed and pass over the communication |
|  |  | link, and the sensitivity of the internal system; |
|  |  | 2. the use of home networks and requirements or restrictions on the |
|  |  | configuration of wireless network services including encryption (AES |
|  |  | WPA2 at a minimum); |
|  |  | 3. anti-virus protection, operating system and application patching, and |
|  |  | firewall requirements consistent with corporate policy; and |
|  |  | 4. revocation of authority and access rights, and the return of equipment |
|  |  | when the teleworking activities are terminated. |
|  |  | Verifiable unique IDs shall be required for all teleworkers accessing the |

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|  |  |
| --- | --- |
|  | organization's network via a remote connection. The connection between the |
|  | organization and the teleworker's location shall be secured via an encrypted |
|  | channel. The organization shall maintain ownership over the assets used by the |
|  | teleworker in order to achieve the requirements of this control (e.g., issuance of a |
|  | USB device to allow for remote access via an encrypted tunnel). |
|  | Teleworking activities shall both be authorized and controlled by management, |
|  | and it shall be ensured that suitable arrangements are in place for this way of |
|  | working. Training on security awareness, privacy and teleworker responsibilities |
|  | shall be required prior to authorization and training methods shall be reviewed in |
|  | accordance with the organization's policy (see 02.e). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.2 |
|  |
|  | AICPA C1.3 |
|  | AICPA CC5.5 |
|  | AICPA CC5.6 |
|  | CIS CSC v6 15.5 |
|  | CMSRs 2013v2 AC-17 (HIGH) |
|  | CMSRs 2013v2 AC-17(2) (HIGH) |
|  | CMSRs 2013v2 AT-2 (HIGH) |
|  | CMSRs 2013v2 IA-2 (HIGH) |
|  | CMSRs 2013v2 PE-17 (HIGH) |
|  | FedRAMP AC-17 |
|  | FedRAMP AC-17(2) |
|  | FedRAMP AT-2 |
|  | FedRAMP IA-2 |
|  | FedRAMP PE-17 |
|  | FFIEC IS v2016 A.6.23 |
|  | FFIEC IS v2016 A.6.24 |
|  | HIPAA § 164.308(a)(3)(i) |
|  | HIPAA § 164.308(a)(3)(ii)(B) |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.308(a)(4)(ii)(C) |
|  | HIPAA § 164.310(a)(2)(i) |
|  | HIPAA § 164.310(b) |
|  | IRS Pub 1075 v2014 4.7.1 |
|  | IRS Pub 1075 v2014 9.3.1.12 |
|  | ISO/IEC 27002:2005 11.7.2 |
|  | ISO/IEC 27002:2005 9.2 |
|  | ISO/IEC 27002:2013 6.2.1 |
|  | ISO/IEC 27002:2013 6.2.2 |
|  | MARS-E v2 AC-17 |
|  |  |

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|  |  |
| --- | --- |
|  | MARS-E v2 AC-17(2) |
|  | MARS-E v2 AT-2 |
|  | MARS-E v2 IA-2 |
|  | MARS-E v2 PE-17 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework PR.AC-3 |
|  | NIST Cybersecurity Framework PR.AT-1 |
|  | NIST Cybersecurity Framework PR.DS-1 |
|  | NIST Cybersecurity Framework PR.DS-2 |
|  | NIST Cybersecurity Framework PR.DS-3 |
|  | NIST Cybersecurity Framework PR.IP-1 |
|  | NIST SP 800-53 R4 AC-17 |
|  | NIST SP 800-53 R4 AC-17(2) |
|  | NIST SP 800-53 R4 AT-2 |
|  | NIST SP 800-53 R4 IA-2 |
|  | NIST SP 800-53 R4 PE-17 |
|  | PMI DSP Framework PR.IP-2 |
|  |  |
| **Level 2 Implementation Requirements** | |
|  |  |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The following matters shall be addressed prior to authorizing teleworking: |
|  | 1. the existing physical security of the teleworking site, taking into account |
|  | the physical security of the building and the local environment; |
|  | 2. the proposed physical teleworking environment; and |
|  | 3. the threat of unauthorized access to information or resources from other |
|  | persons using the accommodation (e.g., family and friends). |
|  |  |
| **Level 2** | HIPAA § 164.308(a)(3)(i) |
|  |  |

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**Control Standard Mapping:**

HIPAA § 164.310(a)(2)(i)

ISO/IEC 27002:2005 11.7.2

NIST Cybersecurity Framework PR.AC-2

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.IP-1

NIST SP 800-53 R4 PE-17

**Level 3 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds | |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives | |
|  |  | HIE Transactions: More than 6 Million Transactions | |
|  |  | Hospital Admissions: More than 20k Patients | |
|  |  | IT Service Provider: More than 60 Terabytes(TB) | |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) | |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions | |
|  |  | Physician Count: Greater than 25 Physicians | |
|  |  | Physician Encounters: Greater than 180k Encounters | |
|  |  | Record Count Annual: More than 725k Records | |
|  |  | Record Total: More than 60 Million Records | |
|  |  |  |  |
|  | **Level 3** |  |  |
|  | **System Factors:** |  |  |
|  |  |  | |
|  | **Level 3** | Subject to CA Civil Code § 1798.81.5 | |
|  | **Regulatory Factors:** | Subject to EHNAC Accreditation | |
|  |  | Subject to FedRAMP Certification | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to PCI Compliance | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: | |
|  |  |
|  |  | The following matters shall be addressed prior to authorizing teleworking: | |
|  |  | 1. | a definition of the work permitted, the hours of work, the classification of |
|  |  |  | information that may be held, and the internal systems and services that |
|  |  |  | the teleworker is authorized to access; |
|  |  | 2. | the provision of suitable equipment and storage furniture for the |
|  |  |  | teleworking activities, where the use of privately owned equipment that is |
|  |  |  | not under the control of the organization is not allowed; |
|  |  | 3. | the provision of suitable communication equipment, including methods for |
|  |  |  | securing remote access; |
|  |  | 4. | rules and guidance on family and visitor access to equipment and |
|  |  |  | information; |
|  |  | 5. | the provision of hardware and software support and maintenance; |
|  |  | 6. | the provision of insurance; |
|  |  | 7. | the procedures for back-up and business continuity; |
|  |  | 8. | the provision of a means for teleworkers to communicate with information |
|  |  |  | security personnel in case of security incidents or problems; and |
|  |  | 9. | audit and security monitoring. |

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|  |  |
| --- | --- |
|  | The organization shall instruct all personnel working from home to implement |
|  | fundamental security controls and practices, including but not limited to |
|  | passwords, virus protection, personal firewalls, laptop cable locks, recording serial |
|  | numbers and other identification information about laptops, and disconnecting |
|  | modems at alternate worksites. Remote access shall be limited to only information |
|  | resources required by home users to complete job duties. Any organization- |
|  | owned equipment is only used only for business purposes by authorized |
|  | employees. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 8.1 |
| **Mapping:** | CMSRs 2013v2 AC-20 (HIGH) |
|  |
|  | CMSRs 2013v2 AC-6 (HIGH) |
|  | CMSRs 2013v2 PE-17 (HIGH) |
|  | FedRAMP AC-20 |
|  | FedRAMP AC-6 |
|  | FedRAMP PE-17 |
|  | HIPAA § 164.308(a)(3)(i) |
|  | HIPAA § 164.310(a)(2)(i) |
|  | HIPAA § 164.310(b) |
|  | IRS Pub 1075 v2014 4.5 |
|  | IRS Pub 1075 v2014 4.7 |
|  | IRS Pub 1075 v2014 4.7.1 |
|  | IRS Pub 1075 v2014 4.7.2 |
|  | IRS Pub 1075 v2014 9.3.1.6 |
|  | IRS Pub 1075 v2014 9.3.11.9 |
|  | ISO 27799-2008 7.8.6.2 |
|  | ISO/IEC 27002:2005 11.7.2 |
|  | ISO/IEC 27002:2013 6.2.2 |
|  | MARS-E v2 AC-20 |
|  | MARS-E v2 AC-6 |
|  | MARS-E v2 PE-17 |
|  | NIST Cybersecurity Framework ID.GV-4 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework PR.AC-3 |
|  | NIST Cybersecurity Framework PR.DS-1 |
|  | NIST Cybersecurity Framework PR.IP-1 |
|  | NIST SP 800-53 R4 AC-20 |
|  | NIST SP 800-53 R4 AC-6 |
|  | NIST SP 800-53 R4 PL-4 |
|  |  |

**Level FTI Custodians Implementation Requirements**

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**Level FTI Custodians Implementation:**

If the agency allows alternative work sites, such as an employee's home or other non-traditional work sites, the FTI remains subject to the same safeguard requirements as the agency's offices and the highest level of attainable security (see also IRS Pub 1075 v2014 4.5)

The organization addresses how it will meet its minimum protection standards for FTI at alternate worksites (e.g., employee's homes or other non-traditional work sites).

The agency should conduct and fully document periodic inspections of alternative work sites during the year to ensure that safeguards are adequate.

The agency must retain ownership and control, for all hardware, software, and end-point equipment connecting to public communication networks, where these are resident at all alternate work sites.

Employees must have a specific room or area in a room that has the appropriate space and facilities for the type of work done. The agency must give employees locking file cabinets or desk drawers so that documents, disks, and tax returns may be properly secured when not in use. If agency furniture is not furnished to the employee, the agency must ensure that an adequate means of storage exists at the work site.

The agency must provide " locking hardware" to secure automated data processing equipment to large objects, such as desks or tables. Smaller, agency-owned equipment must be locked in a filing cabinet or desk drawer when not in use.

FTI may be stored on hard disks only if agency-approved security access control devices (hardware/software) have been installed; are receiving regularly scheduled maintenance, including upgrades; and are being used. Access control must include password security, an audit trail, encryption, virus detection, and data overwriting capabilities.

Computers and electronic media that receive, process, store, or transmit FTI must be in a secure area with restricted access. In situations when requirements of a secure area with restricted access cannot be maintained, such as home work sites, remote terminals or other office work sites, the equipment must receive the highest level of protection practical, including full disk encryption. All computers and mobile devices that contain FTI and are resident in an alternate work site must employ encryption mechanisms to ensure that this data may not be accessed, if the computer is lost or stolen.

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**Control Category: 02.0 - Human Resources Security**

**Objective Name: 02.01 Prior to Employment**

**Control**

**Objective:** To ensure that employees, contractors and third-party users are suitable for the roles for which they are being considered, to reduce the risk of fraud, theft, or

misuse of facilities.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Control Reference: 02.a Roles and Responsibilities** | | |
|  |  |  |  |
|  | **Control Specification:** | Security roles and responsibilities of employees, contractors and third-party users | |
|  |  |
|  |  | shall be defined and documented in accordance with the organization's | |
|  |  | information security policy. | |
|  |  | \*Required for HITRUST Certification CSF v9 | |
|  |  |  | |
|  | **Factor Type:** | Organizational | |
|  |  |  | |
|  | **Topics:** | Awareness and Training; Incident Response; IT Organization and Management | |
|  |  | Roles and Responsibilities; Personnel; Policies and Procedures | |
|  | **Level 1 Implementation Requirements** | | |
|  |  |  | |
|  | **Level 1** | Applicable to all Organizations | |
|  | **Organizational Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** | Subject to PCI Compliance | |
|  | **Regulatory Factors:** |
|  |  |  |
|  |  |  |  |
|  | **Level 1 Implementation:** | The organization shall develop, disseminate, and review/update annually: | |
|  |  |
|  |  | 1. | a formal, documented personnel security policy that addresses purpose, |
|  |  |  | scope, roles, responsibilities, management commitment, coordination |
|  |  |  | among organizational entities, and compliance; and |
|  |  | 2. | formal, documented procedures to facilitate the implementation of the |
|  |  |  | personnel security policy and associated personnel security controls. |
|  |  | Security roles and responsibilities shall include the following requirements: | |
|  |  | 1. | implement and act in accordance with the organization's information |
|  |  |  | security policies; |
|  |  | 2. | protect assets from unauthorized access, disclosure, modification, |
|  |  |  | destruction or interference; |
|  |  | 3. | execute particular security processes or activities; |
|  |  | 4. | ensure responsibility is assigned to the individual for actions taken; and |
|  |  | 5. | report security events or potential events or other security risks to the |

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|  |  |
| --- | --- |
|  | organization. |
|  | Security roles and responsibilities shall be defined and clearly communicated to |
|  | job candidates during the pre-employment process. Security roles and |
|  | responsibilities, as laid down in the organization's information security policy, as |
|  | well as any involvement in processing covered information shall be documented in |
|  | relevant job descriptions. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC1.1 |
|  |
|  | AICPA CC1.4 |
|  | AICPA CC2.3 |
|  | CMSRs 2013v2 PS-1 (HIGH) |
|  | CRR V2016 CCM:MIL3.Q2 |
|  | CRR V2016 CM:G2.Q9 |
|  | CRR V2016 CM:MIL3.Q2 |
|  | CRR V2016 EDM:MIL3.Q2 |
|  | CRR V2016 RM:MIL3.Q2 |
|  | CRR V2016 SCM:MIL3.Q2 |
|  | CRR V2016 VM:MIL3.Q2 |
|  | CSA CCM v3.0.1 HRS-07 |
|  | FedRAMP AC-1 |
|  | FedRAMP PS-1 |
|  | FFIEC IS v2016 A.2.7 |
|  | FFIEC IS v2016 A.2.9 |
|  | HIPAA § 164.308(a)(1)(i) |
|  | HIPAA § 164.308(a)(3)(i) |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(3)(ii)(B) |
|  | HIPAA § 164.308(a)(3)(ii)(C) |
|  | IRS Pub 1075 v2014 9.3.13.1 |
|  | ISO 27799-2008 7.5.1.1 |
|  | ISO/IEC 27002:2005 8.1.1 |
|  | ISO/IEC 27002:2013 6.1.1 |
|  | ISO/IEC 27002:2013 7.1.2 |
|  | MARS-E v2 PS-1 |
|  | NIST Cybersecurity Framework DE.DP-1 |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  | NIST SP 800-53 R4 PL-4 |
|  | NIST SP 800-53 R4 PS-1 |
|  |  |

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|  |  |
| --- | --- |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 12.4.1 |
|  |  |
| **Level 2 Implementation Requirements** | |
|  |  |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The pre-employment process shall be reviewed by recruitment to ensure security |
|  | roles and responsibilities are defined and clearly communicated to job candidates. |
|  | The organization shall assign risk designations to all organizational positions as |
|  | appropriate, establish screening criteria, and review and revise designations every |
|  | three hundred and sixty-five (365) days. |
|  | The organization shall define the roles, responsibilities and authority of all security |
|  | personnel. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PS-2 (HIGH) |
| **Mapping:** | CRR V2016 CM:G2.Q9 |
|  |
|  | FedRAMP PS-2 |
|  | FFIEC IS v2016 A.2.7 |
|  | FFIEC IS v2016 A.2.9 |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(3)(ii)(B) |
|  | IRS Pub 1075 v2014 9.3.13.2 |
|  | ISO/IEC 27002:2005 8.1.1 |
|  | ISO/IEC 27002:2013 7.1.2 |
|  |  |

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MARS-E v2 PS-2

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PS-2

NRS 603A.215.1

PCI DSS v3.2 12.4.1

**Control Reference: 02.b Screening**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Background verification checks on all candidates for employment, contractors, |
|  |  | and third-party users shall be carried out in accordance with relevant laws, |
|  |  | regulations and ethics, and proportional to the business requirements, the |
|  |  | classification of the information to be accessed, and the perceived risks. |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; IT Organization and Management Roles and Responsibilities; |
|  |  | Personnel; Requirements (Legal and Contractual); Third Parties and Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to PCI Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall screen individuals requiring access to organizational |
|  |  |
|  |  | information and before authorizing access. |
|  |  | Verification checks shall take into account all relevant privacy, protection of |
|  |  | covered data and/or employment-based legislation, and where permitted and |
|  |  | appropriate, include the following: |
|  |  | 1. availability of satisfactory character references (e.g., one business and |
|  |  | one personal); |
|  |  | 2. a check (for completeness and accuracy) of the applicant's curriculum |
|  |  | vitae; |
|  |  | 3. confirmation of claimed academic and professional qualifications; and |
|  |  | 4. independent identity check (passport or similar document). |
|  |  | All applicants shall be required to complete an I-9 form to verify that they are |
|  |  | eligible to work in the United States and to verify their identity prior to granting |
|  |  | access to covered information. Where a job, either on initial appointment or on |
|  |  | promotion, involves the person having access to information assets, and in |
|  |  | particular those handling covered information (e.g. financial information, personal |
|  |  | health information or highly confidential information) the organization shall, at a |
|  |  | minimum, verify the identity, current address (for initial appointment) and previous |
|  |  | employment of such staff prior to granting or continuing access, including the |
|  |  | contribution of covered information. |
|  |  |  |

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|  |  |  |
| --- | --- | --- |
|  |  | Procedures shall define criteria and limitations for verification checks (e.g., who is |
|  |  | eligible to screen people, and how, when and why verification checks are carried |
|  |  | out). |
|  |  | Information on all candidates being considered for positions within the |
|  |  | organization shall be collected and handled in accordance with any appropriate |
|  |  | legislation existing in the relevant jurisdiction. Depending on applicable legislation, |
|  |  | the candidates shall be informed beforehand about the screening activities. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | AICPA CC1.3 |
|  | **Mapping:** | AICPA CC1.4 |
|  |  |
|  |  | CMSRs 2013v2 PS-1 (HIGH) |
|  |  | CRR V2016 CM:G2.Q9 |
|  |  | CSA CCM v3.0.1 HRS-02 |
|  |  | FedRAMP PS-1 |
|  |  | FFIEC IS v2016 A.6.8(b) |
|  |  | HIPAA § 164.308(a)(3)(ii)(B) |
|  |  | HITRUST SME |
|  |  | ISO 27799-2008 7.5.1.2 |
|  |  | ISO/IEC 27002:2005 8.1.2 |
|  |  | ISO/IEC 27002:2013 7.1.1 |
|  |  | MARS-E v2 PS-1 |
|  |  | NIST Cybersecurity Framework PR.DS-5 |
|  |  | NIST Cybersecurity Framework PR.IP-11 |
|  |  | NIST SP 800-53 R4 PS-1 |
|  |  | NIST SP 800-53 R4 PS-3 |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 12.7 |
|  |  | PMI DSP Framework PR.AC-1 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |

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|  |  |  |
| --- | --- | --- |
| **Level 2** | Subject to CRR V2016 | |
| **Regulatory Factors:** | Subject to FISMA Compliance | |
|  | Subject to IRS Pub 1075 Compliance | |
|  | Subject to MARS-E Requirements | |
|  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |
| **Level 2 Implementation:** | Level 1 plus: | |
|  |
|  | The organization shall have an HR representative as a single point of contact for | |
|  | performing the screening process on applicants. | |
|  | The organization shall develop a standard criteria screening process to be carried | |
|  | out on all applicants. The organization shall assign risk designation to all positions | |
|  | and established criteria for individuals filling those positions. | |
|  | Applicants shall be screened in accordance with applicable regional | |
|  | policies/procedures that may require screening in the following areas: | |
|  | 1. | health screening; |
|  | 2. | drug screening; and |
|  | 3. motor vehicle driving record (in accordance with job requirements). | |
|  | Criminal background checks shall be undertaken prior to employment. The | |
|  | organization shall rescreen individuals periodically, consistent with the | |
|  | criticality/sensitivity rating of the position and, when an employee moves from one | |
|  | position to another, any higher level of access (clearance) should be adjudicated. | |
|  | The organization shall consider applicable state and federal law (reference 02.b, | |
|  | level 1) with regards to information exchanged in the notification process with | |
|  | business associates described in 05.k, level 1, which is meant to ensure third- | |
|  | party workforce members pass verification checks prior to employment. | |
|  | If there has been a long gap, at a minimum five (5) years, between recruitment | |
|  | and the date of the employee starting, the organization shall repeat the screening | |
|  | process, or its key elements. | |
|  |  | |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | CMSRs 2013v2 PS-1 (HIGH) | |
| **Mapping:** | CMSRs 2013v2 PS-2(HIGH) | |
|  |
|  | CMSRs 2013v2 PS-3 (HIGH) | |
|  | CMSRs 2013v2 PS-3(HIGH) | |
|  | CRR V2016 CM:G2.Q9 | |
|  | FedRAMP PS-2 | |
|  | FedRAMP PS-3 | |
|  | FFIEC IS v2016 A.6.8(b) | |
|  | HIPAA § 164.308(a)(3)(ii)(B) | |
|  | IRS Pub 1075 v2014 9.3.13.2 | |
|  | IRS Pub 1075 v2014 9.3.13.3 | |
|  | IRS Pub 1075 v2014 9.4.2 (E.10) | |
|  | ISO/IEC 27002:2005 8.1.2 | |
|  |  |  |

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ISO/IEC 27002:2013 7.1.1

MARS-E v2 PS-1

MARS-E v2 PS-2

MARS-E v2 PS-3

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PS-1

NIST SP 800-53 R4 PS-2

NIST SP 800-53 R4 PS-3

NRS 603A.215.1

PCI DSS v3.2 12.7

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall specifically define an individual who performs all screening |
|  | checks. The organization shall document and maintain a list of all screened |
|  | applicants with assigned risk. |
|  | Credit checks shall be carried out for personnel who will have access to financial |
|  | information. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PS-3(HIGH) |
| **Mapping:** | FedRAMP PS-3 |
|  |
|  | FedRAMP PS-3(3) |
|  | FFIEC IS v2016 A.6.8(b) |
|  | HIPAA § 164.308(a)(3)(ii)(B) |
|  | IRS Pub 1075 v2014 9.3.13.3 |
|  |  |

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ISO/IEC 27002:2005 8.1.2

ISO/IEC 27002:2013 7.1.1

MARS-E v2 PS-3

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PS-3

PCI DSS v3.2 12.7

**Level CMS Implementation Requirements Level CMS Implementation:**

Require that individuals with significant security responsibilities be assigned and hold, at a minimum, a Level 5 Public Trust sensitivity level clearance as defined in the HHS Personnel Security/Suitability Handbook. Assign other individuals with Public Trust positions the appropriate sensitivity level as defined in the HHS Personnel Security/Suitability Handbook.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

Rescreening is required during the 5th year for top secret security clearance, the 10th year for secret security clearance, and 15th year for confidential security clearance. For moderate risk law enforcement and high impact public trust level, a reinvestigation is required during the 5th year.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Individuals must be screened before authorizing access to information systems and devices containing FTI. Organizations should consider additional background checks for staff members with administrator access to the entire set of FTI records.

**Objective Name: 02.02 During On-Boarding**

**Control**

**Objective:** To ensure agreements are signed by employees, contractors and third-party users of information assets on their security roles and responsibilities at the time

of their employment or engagement, prior to access being gr

**Control Reference: 02.c Terms and Conditions of Employment**

**Control Specification:**

As part of their contractual obligation, employees, contractors and third-party users shall agree and sign the terms and conditions of their employment contract, which shall include their responsibilities for information security.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |

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|  |  |
| --- | --- |
| **Topics:** | Documentation and Records; IT Organization and Management Roles and |
|  | Responsibilities; Personnel; Requirements (Legal and Contractual); Third Parties |
|  | and Contractors |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 1 Implementation:** | The terms and conditions of employment shall reflect the organization's security |
|  |
|  | policy, in addition to clarifying and stating the following: |
|  | 1. that all employees, contractors and third-party users who are given |
|  | access to covered information shall sign a confidentiality or non- |
|  | disclosure agreement prior to being given access to information assets; |
|  | 2. the employee's, contractor's and any other user's legal responsibilities |
|  | and rights (e.g., regarding copyright laws or data protection legislation); |
|  | 3. responsibilities for the classification of information and management of |
|  | organizational assets associated with information systems and services |
|  | handled by the employee, contractor or third-party user; |
|  | 4. responsibilities of the employee, contractor or third-party user for the |
|  | handling of information received from other companies or external parties; |
|  | 5. responsibilities of the organization for the handling of covered information, |
|  | including covered information created as a result of, or in the course of, |
|  | employment with the organization; |
|  | 6. responsibilities that are extended outside the organization's premises and |
|  | outside normal working hours (e.g., in the case of home-working); |
|  | 7. actions to be taken if the employee, contractor or third-party user |
|  | disregards the organization's security requirements; and |
|  | 8. ensure that conditions relating to security policy survive the completion of |
|  | the employment in perpetuity. |
|  | The organization shall ensure that employees, contractors and third-party users |
|  | agree to terms and conditions concerning information security appropriate to the |
|  | nature and extent of access they will have to the organization's assets associated |
|  | with information systems and services. |
|  | The organization shall develop and document access agreements for |
|  | organizational systems and privileges shall not be granted until the terms and |
|  | conditions of employment have been satisfied and agreements have been signed. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.2 |
|  |
|  |  |

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AICPA C1.4

AICPA C1.6

AICPA CC1.3

AICPA CC1.4

AICPA CC2.3

CMSRs 2013v2 PL-4 (HIGH)

CMSRs 2013v2 PS-6 (HIGH)

CSA CCM v3.0.1 HRS-03

FedRAMP PL-4

FedRAMP PS-6

FFIEC IS v2016 A.2.7

FFIEC IS v2016 A.2.9

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(3)(ii)(B)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.310(b)

HIPAA § 164.310(d)(2)(iii)

HIPAA § 164.314(a)(1)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.314(a)(2)(ii)

IRS Pub 1075 v2014 9.3.12.3

IRS Pub 1075 v2014 9.3.13.6

ISO/IEC 27002:2005 8.1.3

ISO/IEC 27002:2013 7.1.2

MARS-E v2 PL-4

MARS-E v2 PS-6

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PL-4

NIST SP 800-53 R4 PS-6

NRS 603A.215.1

PCI DSS v3.2 12.4

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |

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|  |  |
| --- | --- |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to HITRUST De-ID Framework Requirements |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall maintain a list of all authorized signed non-disclosure |
|  | agreement (NDA) forms. This list shall be kept up to date to reflect personnel or |
|  | other workforce member changes and departures. |
|  | Responsibilities contained within the terms and conditions of employment shall |
|  | continue for a defined period after the end of the employment. |
|  | The terms and conditions of employment should: |
|  | 1. include reference to the penalties that are possible when breach of the |
|  | information security policy is identified; |
|  | 2. ensure that conditions relating to confidentiality of personal health |
|  | information survive the completion of the employment for the maximum |
|  | period allowed under applicable federal and state laws and regulations. |
|  | With respect to clinical staff, the terms and conditions of employment should |
|  | specify what rights of access such staff will have to the records of subjects of care |
|  | and to the associated health information systems in the event of third-party |
|  | claims. |
|  |  |
| **Level 2** | De-ID Framework v1 Non-disclosure and Confidentiality: Policy |
| **Control Standard** | HIPAA § 164.308(a)(3)(ii)(A) |
| **Mapping:** | HIPAA § 164.308(a)(3)(ii)(B) |
|  |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.314(a)(1) |
|  | HIPAA § 164.314(a)(2)(i) |
|  | HIPAA § 164.314(a)(2)(ii) |
|  | ISO 27799-2008 7.5.1.3 |
|  | ISO/IEC 27002:2005 8.1.3 |
|  | ISO/IEC 27002:2013 7.1.2 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall review/update the access agreements as part of the

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system security authorization or when a contract is renewed or extended, but minimally within every three hundred sixty-five (365) days, whichever occurs first.

The organization shall:

1. ensure that individuals requiring access to organizational information or information systems acknowledge (paper or electronic) appropriate access agreements prior to being granted access; and
2. re-acknowledge access agreements to maintain access to organizational information systems when access agreements have been updated.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization reviews/updates the access agreements within every three hundred and sixty-five (365) days.

The organization ensures that individuals requiring access to organizational information or information systems sign appropriate access agreements prior to being granted access and re-acknowledge such agreements when they are updated to maintain access to organizational information systems.

The organization requires third-party providers to notify organization-defined personnel or roles of any personnel transfers or terminations of third-party personnel who possess organizational credentials and/or badges, or who have information system privileges, within the same day.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** Agencies must review information system access authorizations and initiate appropriate actions when personnel are reassigned or transferred to other

positions within the organization.

**Objective Name: 02.03 During Employment**

**Control**

**Objective:** To ensure that employees, contractors and third-party users are aware of information security threats and concerns, their responsibilities and liabilities, and

are equipped to support organizational security policy in

**Control Reference: 02.d Management Responsibilities**

**Control Specification:**

Management shall require employees, and where applicable contractors and third-party users, to apply security in accordance with established policies and procedures of the organization.

\*Required for HITRUST Certification CSF v9

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|  |  |  |
| --- | --- | --- |
| **Factor Type:** |  | Organizational |
|  |  |  |
| **Topics:** |  | IT Organization and Management Roles and Responsibilities; Personnel; Policies |
|  |  | and Procedures; Third Parties and Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
| **Level 1** |  | Applicable to all Organizations |
| **Organizational Factors:** | | |
|  |  |  |
| **Level 1** |  |  |
| **System Factors:** |  |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

Management responsibilities shall include ensuring that employees, contractors and third-party users:

1. are properly briefed on their information security roles and responsibilities prior to being granted access to covered information or information systems;
2. are provided with guidelines to state security expectations of their role within the organization;
3. are motivated and comply with the security policies of the organization;
4. achieve a level of awareness on security relevant to their roles and responsibilities within the organization;
5. conform to the terms and conditions of employment, which includes the organization's information security policy and appropriate methods of working; and
6. continue to have the appropriate skills and qualifications.

The organization shall establish an information security workforce development and improvement program.

The organization shall:

1. implement a process for ensuring that organization plans for conducting security testing, training, and monitoring activities associated with organizational information systems:
   1. are developed and maintained; and
   2. continue to be executed in a timely manner;
2. review testing, training, and monitoring plans for consistency with the organization risk management strategy and organization-wide priorities for risk response actions.

The organization shall develop usage policies for critical employee-facing technologies to define proper use of these technologies for all employees and contractors.

|  |  |  |
| --- | --- | --- |
| **Level 1** | 1 | TAC § 390.2(a)(1) |
| **Control Standard** | 1 | TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC1.1 | |
|  |
|  | AICPA CC1.2 | |

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AICPA CC2.3

AICPA CC2.4

CMSRs 2013v2 AT-3

CMSRs 2013v2 PM-13

CMSRs 2013v2 PM-14

CMSRs 2013v2 PM-15

CMSRs 2013v2 PM-7

CRR V2016 AM:G6.Q4

CRR V2016 AM:MIL3.Q2

CRR V2016 CCM:MIL3.Q2

CRR V2016 CM:MIL3.Q2

CRR V2016 EDM:MIL3.Q2

CRR V2016 IM:MIL3.Q2

CRR V2016 RM:MIL3.Q2

CRR V2016 SA:G1.Q2

CRR V2016 SA:G3.Q3

CRR V2016 SA:MIL3.Q2

CRR V2016 SCM:MIL3.Q2

CRR V2016 TA:G1.Q2

CRR V2016 TA:MIL2.Q2

CRR V2016 TA:MIL3.Q2

CRR V2016 TA:MIL4.Q2

CRR V2016 VM:MIL3.Q2

CSA CCM v3.0.1 GRM-03

CSA CCM v3.0.1 HRS-10

FedRAMP AT-3

FedRAMP PS-7

FFIEC IS v2016 A.2.10

FFIEC IS v2016 A.2.7

FFIEC IS v2016 A.2.9

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(b)(1)

HIPAA § 164.314(a)(1)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.314(a)(2)(ii)

IRS Pub 1075 v2014 9.3.13.7

IRS Pub 1075 v2014 9.3.2.3

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO/IEC 27002:2005 8.2.1

ISO/IEC 27002:2013 7.2.1

MARS-E v2 AT-3

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MARS-E v2 PM-13

MARS-E v2 PM-14

MARS-E v2 PM-15

MARS-E v2 PS-7

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.AT-2

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework PR.AT-4

NIST Cybersecurity Framework PR.AT-5

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 AT-3

NIST SP 800-53 R4 PM-13

NIST SP 800-53 R4 PM-14

NIST SP 800-53 R4 PM-15

NIST SP 800-53 R4 PS-7

NRS 603A.215.1

PCI DSS v3.2 12.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall assign an individual or team to manage information |
|  |  | security responsibilities of employees, contractors and third-party users. |
|  |  |  |

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For all system connections that allow customers to access the computing assets such as Web sites, kiosks and public access terminals, the organization shall ensure the following:

1. provide appropriate text or a link to the privacy policy for data use and protection as well as the customer's responsibilities when accessing the data; and
2. have a formal mechanism to authenticate the customer's identity prior to granting access to covered information.

These usage policies shall address the following if applicable:

1. explicit management approval (authorization) to use the technology;
2. authentication for use of the technology;
3. acceptable uses of the technologies (see 07.c), with special emphasis on the inappropriate access by health workers of personal health information of neighbors, colleagues and relatives;
4. acceptable network locations for the technologies;
5. list of company-approved products;
6. activation of modems for vendors only when needed by vendors, with immediate deactivation after use; and
7. prohibition of storage of covered data onto local hard drives, floppy disks, or other external media.

Management:

|  |  |  |
| --- | --- | --- |
|  | 1. | clearly identifies applications, application stores and application |
|  |  | extensions and plugins approved for bring your own device (BYOD) |
|  |  | usage; |
|  | 2. | defines the device and eligibility requirements to allow for BYOD usage; |
|  | 3. | clarifies its expectations of privacy and its requirements for litigation, e- |
|  |  | discovery, and legal holds with respect to mobile devices; |
|  | 4. | clearly states expectations regarding the loss of non-company data in the |
|  |  | case a wipe of a mobile device is required; and |
|  | 5. | clarifies the systems and servers allowed for use or access on a BYOD- |
|  |  | enabled device. |
|  |  | |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | CMSRs 2013v2 PL-4 (HIGH) | |
| **Mapping:** | CMSRs 2013v2 PM-2 (HIGH) | |
|  |
|  | CSA CCM v3.0.1 MOS-04 | |
|  | CSA CCM v3.0.1 MOS-06 | |
|  | CSA CCM v3.0.1 MOS-08 | |
|  | CSA CCM v3.0.1 MOS-13 | |
|  | CSA CCM v3.0.1 MOS-20 | |
|  | FedRAMP PL-4 | |
|  | FFIEC IS v2016 A.2.7 | |
|  | FFIEC IS v2016 A.2.9 | |
|  | HIPAA § 164.308(a)(3)(ii)(A) | |
|  | HIPAA § 164.308(a)(4)(ii)(B) | |

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HIPAA § 164.308(b)(1)

HIPAA § 164.314(a)(1)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.314(a)(2)(ii)

IRS Pub 1075 v2014 9.3.12.3

IRS Pub 1075 v2014 9.3.12.3.1

IRS Pub 1075 v2014 9.3.12.3.2

IRS Pub 1075 v2014 9.3.12.3.6

IRS Pub 1075 v2014 9.3.12.3.7

IRS Pub 1075 v2014 9.3.18.1

ISO 27799-2008 7.5.2.1

ISO/IEC 27002:2005 8.2.1

ISO/IEC 27002:2013 7.2.1

MARS-E v2 PL-4

MARS-E v2 PM-2

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PL-4

NIST SP 800-53 R4 PM-2

NRS 603A.215.1

PCI DSS v3.2 12.3.5

PMI DSP Framework PR.AC-1

**Control Reference: 02.e Information Security Awareness, Education, and Training**

**Control Specification:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | All employees of the organization and contractors and third-party users shall |
|  |  |  | receive appropriate awareness training and regular updates in organizational |
|  |  |  | policies and procedures, as relevant for their job function. |
|  |  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |  |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Awareness and Training; IT Organization and Management Roles and |
|  |  |  | Responsibilities; Personnel; Policies and Procedures |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  | Subject to State of Massachusetts Data Protection Act |
|  | **Regulatory Factors:** |  | Subject to Texas Health and Safety Code |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Level 1 Implementation:** | Awareness training shall commence with a formal induction process designed to |
|  |
|  | introduce the organization's security and privacy policies, state and federal laws, |
|  | and expectations before access to information or services is granted and no later |
|  | than sixty (60) days after the date the employee, contractor, and other workforce |
|  | member is hired or a contractual arrangement is made with a collaborating |
|  | organization. |
|  | At a minimum, the organizations security awareness and training program will |
|  | identify how workforce members are provided security awareness and training; |
|  | identify the workforce members (including managers, senior executives, and as |
|  | appropriate, business associates/partners, and contractors) who will receive |
|  | security awareness and training; describe the types of security awareness and |
|  | training that is reasonable and appropriate for its workforce members; how |
|  | workforce members are provided security and awareness training when there is a |
|  | change in the organizations information systems; and how frequently security |
|  | awareness and training is provided to all workforce members. |
|  | Ongoing training for these individuals and organizations shall include security and |
|  | privacy requirements (e.g., objective, scope, roles and responsibilities, |
|  | coordination, compliance, communicating threat information, legal responsibilities |
|  | and business controls) as well as training in the correct use of information assets |
|  | and facilities (including, but not limited to, log-on procedures, use of software |
|  | packages, anti-malware for mobile devices, and information on the disciplinary |
|  | process).Training shall discuss how the organization addresses each area (e.g., |
|  | audit logging and monitoring); how events or incidents are identified (e.g., |
|  | monitoring for inappropriate or failed user logins), and the actions the organization |
|  | takes in response to events or incidents (e.g., notifying the workforce member or |
|  | the members supervisor), as appropriate to the area of training. |
|  | The organization provides incident response and contingency training to |
|  | information system users consistent with assigned roles and responsibilities: |
|  | 1. within ninety (90) days of assuming an incident response role or |
|  | responsibility; |
|  | 2. when required by information system changes; and |
|  | 3. within every three hundred sixty-five (365) days thereafter. |
|  | The organization shall document that the training has been provided to the |
|  | individual. |
|  | A list of applications, application stores, and application extensions and plugins |
|  | approved for bring your own device (BYOD) usage is provided during training. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.04(8) |
|  |
|  | 23 NYCRR 500.10(a)(2) |
|  | 23 NYCRR 500.10(a)(3) |
|  | 23 NYCRR 500.14(b) |
|  | AICPA C1.7 |
|  |  |

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AICPA CC1.3

AICPA CC2.3

AICPA CC2.5

CIS CSC v6 17.3

CMSRs 2013v2 AR-5 (HIGH)

CMSRs 2013v2 AT-1 (HIGH)

CMSRs 2013v2 AT-2 (HIGH)

CMSRs 2013v2 AT-3 (HIGH)

CMSRs 2013v2 CP-3 (HIGH)

CMSRs 2013v2 CP-3(1) (HIGH)

CMSRs 2013v2 CP-4 (HIGH)

CMSRs 2013v2 IR-2 (HIGH)

CMSRs 2013v2 PM-14 (HIGH)

CRR V2016 TA:G1.Q1

CRR V2016 TA:G1.Q4

CRR V2016 TA:G2.Q7

CRR V2016 TA:MIL2.Q4

CSA CCM v3.0.1 HRS-09

CSA CCM v3.0.1 MOS-01

CSA CCM v3.0.1 MOS-04

CSA CCM v3.0.1 MOS-05

De-ID Framework v1 Privacy and Security Training: General

FedRAMP AT-1

FedRAMP AT-2

FedRAMP AT-3

FedRAMP CP-4

FedRAMP IR-2

FFIEC IS v2016 A.6.8(f)

HIPAA § 164.308(a)(5)(i)

HIPAA § 164.308(a)(5)(ii)(A)

HIPAA § 164.308(a)(5)(ii)(B)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.308(a)(6)(i)

HIPAA § 164.308(a)(7)(ii)(D)

HIPAA § 164.414(a)

HIPAA § 164.530(b)(1)

HIPAA § 164.530(b)(2)

IRS Pub 1075 v2014 9.3.2.1

IRS Pub 1075 v2014 9.3.2.2

IRS Pub 1075 v2014 9.3.2.3

IRS Pub 1075 v2014 9.3.6.3

IRS Pub 1075 v2014 9.3.8.2

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|  |  |  |
| --- | --- | --- |
|  |  | ISO 27799-2008 7.5.2.2 |
|  |  | ISO/IEC 27002:2005 8.2.2 |
|  |  | ISO/IEC 27002:2013 7.2.2 |
|  |  | MARS-E v2 AR-5 |
|  |  | MARS-E v2 AT-1 |
|  |  | MARS-E v2 AT-2 |
|  |  | MARS-E v2 AT-3 |
|  |  | MARS-E v2 CP-3 |
|  |  | MARS-E v2 CP-4 |
|  |  | MARS-E v2 IR-2 |
|  |  | NIST Cybersecurity Framework ID.GV-3 |
|  |  | NIST Cybersecurity Framework PR.AT-1 |
|  |  | NIST Cybersecurity Framework PR.IP-11 |
|  |  | NIST SP 800-53 R4 AR-5 |
|  |  | NIST SP 800-53 R4 AT-1 |
|  |  | NIST SP 800-53 R4 AT-2 |
|  |  | NIST SP 800-53 R4 AT-3 |
|  |  | NIST SP 800-53 R4 CP-3 |
|  |  | NIST SP 800-53 R4 CP-3(1) |
|  |  | NIST SP 800-53 R4 CP-4 |
|  |  | NIST SP 800-53 R4 IR-2 |
|  |  | NIST SP 800-53 R4 PM-14 |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  | PMI DSP Framework PR.AT-2 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to EHNAC Accreditation |
|  |  | Subject to FTC Red Flags Rule |

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Subject to PCI Compliance

Subject to Texas Health and Safety Code

**Level 2 Implementation:**

Level 1 plus:

The organization formally creates dedicated security awareness training as part of a resource on-boarding process to the organization. The organization documents its formal induction security awareness training process. The organization conducts an internal annual review of the effectiveness of its security and privacy education and training program and updates the program to reflect risks identified in the organizations risk assessment.

The organization manages a security and privacy education and training program for all employees and contractors with tracking of completion and a requirement for refresher training at least every three hundred and sixty-five (365) days. Employees shall be required to acknowledge they have received training and are aware of their responsibilities through signoff.

The organization shall include security awareness training on recognizing and reporting potential indicators of an insider threat.

The organization's security personnel, including organizational business unit security points of contact, shall receive specialized security education and training appropriate to their role/responsibilities. Train developers at least annually in up-to-date, secure coding techniques, including how to avoid common coding vulnerabilities. Ensure developers understand how sensitive data is handled in memory.

The organization's awareness program:

focuses on the methods commonly used in intrusions that can be blocked through individual action;

delivers content in short online modules convenient for employees; receives frequent updates (at least annually) to address the latest attack techniques; and

includes the senior leadership teams personal messaging and involvement.

|  |  |  |  |
| --- | --- | --- | --- |
|  | The organization trains its workforce to ensure covered information is stored in | | |
|  | organization-specified locations. | | |
|  | The organization ensures that the senior executives have been trained in their | | |
|  | specific roles and responsibilities. | | |
|  |  |  | |
| **Level 2** | 1 | TAC § 390.2(a)(3) | |
| **Control Standard** | 1 | TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 16 | | CFR Part §681.1 (e)(3) |
|  |
|  | 23 | | NYCRR 500.10(a)(3) |

AICPA C1.7

CIS CSC v6 17.1

CIS CSC v6 17.2

CIS CSC v6 17.3

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CIS CSC v6 17.4

CIS CSC v6 17.5

CIS CSC v6 18.8

CMSRs 2013v2 AR-5 (HIGH)

CMSRs 2013v2 AT-2 (HIGH)

CMSRs 2013v2 AT-2(2) (HIGH)

CMSRs 2013v2 AT-3 (HIGH)

CMSRs 2013v2 IR-2(1) (HIGH)

CMSRs 2013v2 IR-2(2) (HIGH)

CMSRs 2013v2 PL-4 (HIGH)

CMSRs 2013v2 PM-14 (HIGH)

CMSRs 2013v2 PM-6 (HIGH)

CRR V2016 TA:G1.Q2

CRR V2016 TA:G1.Q3

CRR V2016 TA:G1.Q3

CRR V2016 TA:G2.Q1

CRR V2016 TA:G2.Q2

CRR V2016 TA:G2.Q2

CRR V2016 TA:G2.Q3

CRR V2016 TA:G2.Q4

CRR V2016 TA:G2.Q5

CRR V2016 TA:G2.Q6

CRR V2016 TA:G2.Q7

CRR V2016 TA:MIL2.Q1

CRR V2016 TA:MIL2.Q4

CRR V2016 TA:MIL4.Q1

CSA CCM v3.0.1 HRS-09

De-ID Framework v1 Storage (Minimal Locations Authorized): Implementation

FedRAMP AT-2

FedRAMP AT-2(2)

FedRAMP AT-3

FedRAMP PL-4

FFIEC IS v2016 A.6.8(f)

HIPAA § 164.308(a)(5)(i)

HIPAA § 164.308(a)(5)(ii)(A)

HIPAA § 164.308(a)(5)(ii)(B)

HIPAA § 164.308(a)(6)(i)

HIPAA § 164.414(a)

HIPAA § 164.530(b)(1)

HIPAA § 164.530(b)(2)

IRS Pub 1075 v2014 9.3.12.3

IRS Pub 1075 v2014 9.3.2.2

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IRS Pub 1075 v2014 9.3.2.3

ISO 27799-2008 7.5.2.2

ISO/IEC 27002:2005 8.2.2

ISO/IEC 27002:2013 7.2.2

MARS-E v2 AR-5

MARS-E v2 AT-2

MARS-E v2 AT-3

MARS-E v2 PL-4

MARS-E v2 PM-14

MARS-E v2 PM-6

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 AR-5

NIST SP 800-53 R4 AT-2

NIST SP 800-53 R4 AT-2(2)

NIST SP 800-53 R4 AT-3

NIST SP 800-53 R4 IR-2(1)

NIST SP 800-53 R4 PL-4

NIST SP 800-53 R4 PM-14

NIST SP 800-53 R4 PM-6

NRS 603A.215.1

PCI DSS v3.2 12.6

PCI DSS v3.2 12.6.1

PCI DSS v3.2 12.6.2

PCI DSS v3.2 6.5

PCI DSS v3.2 9.9

PCI DSS v3.2 9.9.3

PMI DSP Framework PR.AT-2

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 3** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Personnel with significant information security roles and responsibilities shall be |
|  | required to undergo appropriate role-based information system security training: |
|  | 1. prior to authorizing access to the organization's networks, systems, |
|  | and/or applications; |
|  | 2. when required by significant information system or system environment |
|  | changes; |
|  | 3. when an employee enters a new position that requires additional role- |
|  | specific training; and |
|  | 4. refresher training annually thereafter. |
|  | The organization shall maintain a documented list of each individual who |
|  | completes the on-boarding process. Training records shall be retained for at least |
|  | five (5) years thereafter. |
|  | Workforce members are trained on how to properly respond to perimeter security |
|  | alarms (see 08.b, level 3). |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.7 |
| **Mapping:** | CMSRs 2013v2 AT-3 (HIGH) |
|  |
|  | CMSRs 2013v2 AT-4 (HIGH) |
|  | CMSRs 2013v2 IR-2 (HIGH) |
|  | CMSRs 2013v2 SA-16 (HIGH) |
|  | CRR V2016 TA:G1.Q2 |
|  | CRR V2016 TA:G2.Q5 |
|  | De-ID Framework v1 Perimeter Security (Alarms): Testing |
|  | FedRAMP AT-3 |
|  | FedRAMP AT-4 |
|  | HIPAA § 164.308(a)(5)(i) |
|  | HIPAA § 164.308(a)(6)(i) |
|  | IRS Pub 1075 v2014 9.3.2.3 |
|  | IRS Pub 1075 v2014 9.3.2.4 |
|  | IRS Pub 1075 v2014 9.3.8.2 |
|  | IRS Pub 1075 v2014 9.4.2 (E.10) |
|  | MARS-E v2 AT-3 |
|  | MARS-E v2 AT-4 |
|  |  |

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MARS-E v2 IR-2

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework PR.AT-2

NIST Cybersecurity Framework PR.AT-5

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 AT-2

NIST SP 800-53 R4 AT-3

NIST SP 800-53 R4 AT-4

NIST SP 800-53 R4 IR-2

NIST SP 800-53 R4 SA-16

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization performs a gap analysis to see which skills employees need and which behaviors employees are not adhering to, uses this information to build a baseline training and awareness roadmap for all employees, and delivers additional awareness and training content to fill the skills gaps through an awareness and training program.

The organization validates and improves awareness levels for social engineering through periodic testing as part of its information security awareness and training program (e.g., to see whether employees will click on a link from suspicious email or provide sensitive information on the telephone without following appropriate procedures for authenticating a caller). The organization provides targeted training to those individuals that fail testing.

The organization uses security skills assessments for each of the mission-critical roles to identify skills gaps and hands-on, real-world examples to measure mastery.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall incorporate simulated events into incident response training to facilitate effective response by personnel in crisis situations.

The organization employs automated mechanisms to provide a more thorough and realistic training environment.

The organization requires the developer of the information system, system component, or information system service to provide appropriate training (or training materials), for affected personnel, on the correct use and operation of the implemented security functions, controls, and/or mechanisms.

**Level EHNAC Implementation Requirements**

**Level EHNAC**

**Implementation:** Awareness training shall include training on the organization's breach reporting policies and procedures.

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**Level Federal Implementation Requirements**

**Level Federal**

**Implementation:** The organization shall establish and implement an Operations Security (OPSEC) program.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization provides contingency training to information system users consistent with assigned roles and responsibilities within ten (10) days of assuming an incident response role or responsibility; when required by information system changes; and within every three hundred sixty-five (365) days thereafter.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Awareness training specific to protecting and disclosing FTI, including how FTI security requirements are communicated to end users, and the (possible) sanctions for misuse of FTI must be provided initially prior to granting access to FTI and annually thereafter.

The disclosure awareness (training) requirements apply to all agency employees with access to FTI, including program and information technology personnel and contractors, such as case workers, managers, system administrators, database administrators and application developers.

Training shall be user specific to ensure that all personnel receive appropriate training for a particular job, such as training required for administrators or auditors.

Granting employees or contractors access to FTI must be preceded by each employee or contractor certifying his/her understanding of the agency's security policy and procedures for safeguarding FTI. The certification must be maintained for five (5) years.

The organization provides refresher training, prior to access of FTI and annually thereafter, on incident response policy and procedure regarding FTI.

The agency must provide contingency and incident response training to information system users consistent with assigned roles and responsibilities prior to assuming a contingency role or responsibility.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall ensure that all personnel are aware of the cardholder data security policy and procedures as part of the formal security awareness program.

The organization shall train personnel to be aware of attempted tampering or replacement of devices. Training should include the following:

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1. Verify the identity of any third-party persons claiming to be repair or maintenance personnel, prior to granting them access to modify or troubleshoot devices.
2. Do not install, replace, or return devices without verification.
3. Be aware of suspicious behavior around devices (for example, attempts by unknown persons to unplug or open devices).
4. Report suspicious behavior and indications of device tampering or substitution to appropriate personnel (for example, to a manager or security officer).

**Level Title 21 CFR Part 11 Implementation Requirements Level Title 21 CFR Part 11**

**Implementation:** Persons who develop, maintain, or use electronic record/electronic signature systems must have the proper and sufficient education, training, and experience

to perform their assigned tasks.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 02.f Disciplinary Process** | |
|  |  |  |
|  | **Control Specification:** | There shall be a formal disciplinary process for employees who have violated |
|  |  |
|  |  | security policies and procedures. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Documentation and Records; Incident Response; IT Organization and |
|  |  | Management Roles and Responsibilities; Personnel; Policies and Procedures; |
|  |  | Requirements (Legal and Contractual) |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to State of Massachusetts Data Protection Act |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | The organization employs a formal sanctions process for personnel failing to |
|  |  |
|  |  | comply with established information security policies and procedures and notifies |
|  |  | defined personnel (e.g., supervisors) within a defined time frame (e.g., 24 hours) |
|  |  | when a formal sanction process is initiated, identifying the individual sanctioned |
|  |  | and the reason for the sanction. The disciplinary process shall not be commenced |
|  |  | without prior verification that a security breach has occurred. The formal |

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|  |  |
| --- | --- |
|  | disciplinary process shall ensure correct and fair treatment for employees who are |
|  | suspected of committing breaches of security. The formal disciplinary process |
|  | shall provide for a graduated response that takes into consideration factors such |
|  | as the nature and gravity of the breach and its impact on business, whether or not |
|  | this is a first or repeat offense, whether or not the violator was properly trained, |
|  | relevant legislation, business contracts and other factors as required. And for |
|  | each incident, the organization shall document the personnel involved in the |
|  | disciplinary process, the steps taken and the timeline associated with those steps, |
|  | the steps taken for notification, the rationale for the discipline, whether the |
|  | discipline was due to a compliance failure, and the final outcome. |
|  | The organization shall include specific procedures for license, registration, and |
|  | certification denial or revocation and other disciplinary action. |
|  | The organization shall maintain a list or document an indication of employees |
|  | involved in security incident investigations and the resulting outcome in their HR |
|  | folder. |
|  | The organization ensures individuals are held accountable and responsible for |
|  | actions initiated under their electronic signatures, to help deter record and |
|  | signature falsification. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 1 TAC § 390.2(a)(4)(B)(xviii)(I) |
|  |
|  | 1 TAC § 390.2(a)(4)(B)(xviii)(II) |
|  | 1 TAC § 390.2(a)(4)(B)(xviii)(III) |
|  | 201 CMR 17.03(2)(d) |
|  | 21 CFR Part 11.10(j) |
|  | AICPA CC1.4 |
|  | AICPA CC6.2 |
|  | CMSRs 2013v2 IR-5(HIGH) |
|  | CMSRs 2013v2 PS-8 (HIGH) |
|  | CMSRs 2013v2 PS-8(HIGH) |
|  | CSA CCM v3.0.1 GRM-07 |
|  | De-ID Framework v1 Sanctions: General |
|  | FedRAMP IR-5 |
|  | FedRAMP PS-8 |
|  | HIPAA § 164.308(a)(1)(ii)(C) |
|  | HIPAA § 164.414(a) |
|  | HIPAA § 164.530(e) |
|  | HITRUST SME |
|  | IRS Pub 1075 v2014 9.3.13.8 |
|  | IRS Pub 1075 v2014 9.3.8.5 |
|  | ISO 27799-2008 7.5.2.3 |
|  | ISO/IEC 27002:2005 8.2.3 |
|  |  |

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ISO/IEC 27002:2013 7.2.3

MARS-E v2 IR-5

MARS-E v2 PS-8

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 IR-5

NIST SP 800-53 R4 PS-8

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall create a point of contact from HR to handle any incidents |
|  | relating to employees. |
|  | The organization shall notify the CISO or a designated representative of the |
|  | application of a formal employee sanctions process, identifying the individual and |
|  | the reason for the sanction. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PS-8(HIGH) |
| **Mapping:** | CSA CCM v3.0.1 GRM-07 |
|  |
|  | FedRAMP PS-8 |
|  | HIPAA § 164.308(a)(1)(ii)(C) |
|  | HIPAA § 164.414(a) |
|  | HIPAA § 164.530(e)(1) |
|  | HIPAA § 164.530(e)(2) |
|  |  |

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HITRUST SME

IRS Pub 1075 v2014 9.3.13.8

ISO/IEC 27002:2005 8.2.3

ISO/IEC 27002:2013 7.2.3

MARS-E v2 PS-8

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PS-8

**Level EHNAC Implementation Requirements**

**Level EHNAC**

**Implementation:** The organization's formal sanctions process shall include failure to comply with established privacy policies and procedures.

**Objective Name: 02.04 Termination or Change of Employment**

**Control**

**Objective:** To ensure that the access rights are properly removed, and assets recovered for terminated employees and contractors, and for employees who

have changed employment.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 02.g Termination or Change Responsibilities** | |
|  |  |  |
|  | **Control Specification:** | Responsibilities for performing employment termination or change of employment |
|  |  |
|  |  | shall be clearly defined and assigned. |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; IT Organization and Management Roles and |
|  |  | Responsibilities; Personnel; Requirements (Legal and Contractual); Third Parties |
|  |  | and Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | Logical and physical access authorizations to systems and equipment shall be |
|  |  |
|  |  | reviewed, updated or revoked when there is any change in responsibility or |
|  |  | employment. |
|  |  | The organization shall formally address: |
|  |  | 1. terminating access when the access is no longer needed; |

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|  |  |
| --- | --- |
|  | 2. assignment of responsibility for removing information system and/or |
|  | physical access; and |
|  | 3. timely communication of termination actions to ensure that the termination |
|  | procedures are appropriately followed (see 02.i). |
|  | When an employee or other workforce member moves to a new position of trust, |
|  | logical and physical access controls must be re-evaluated as soon as possible but |
|  | not to exceed thirty (30) days. |
|  | The organization also ensures employees or workforce members that are |
|  | terminated understand their obligations to ensure any covered information for |
|  | which they had prior access remains confidential (e.g., during an exit interview). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC5.4 |
|  |
|  | AICPA CC5.5 |
|  | CIS CSC v6 16.3 |
|  | CMSRs 2013v2 PS-4- (HIGH) |
|  | CMSRs 2013v2 PS-4(HIGH) |
|  | CMSRs 2013v2 PS-5 (HIGH) |
|  | CMSRs 2013v2 PS-5- (HIGH) |
|  | CSA CCM v3.0.1 HRS-04 |
|  | CSA CCM v3.0.1 IAM-11 |
|  | FedRAMP PS-4 |
|  | FedRAMP PS-5 |
|  | FFIEC IS v2016 A.6.8(c) |
|  | HIPAA § 164.308(a)(3)(ii)(B) |
|  | HIPAA § 164.308(a)(3)(ii)(C) |
|  | HITRUST SME |
|  | IRS Pub 1075 v2014 9.3.13.4 |
|  | IRS Pub 1075 v2014 9.3.13.5 |
|  | ISO 27799-2008 7.5.3.1 |
|  | ISO/IEC 27002:2005 8.3.1 |
|  | ISO/IEC 27002:2005 8.3.3 |
|  | ISO/IEC 27002:2013 6.1.1 |
|  | ISO/IEC 27002:2013 7.3.1 |
|  | ISO/IEC 27002:2013 9.2.5 |
|  | ISO/IEC 27002:2013 9.2.6 |
|  | MARS-E v2 PS-4 |
|  | MARS-E v2 PS-5 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  | NIST SP 800-53 R4 PS-4 |
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NIST SP 800-53 R4 PS-5

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall have a documented termination process for all employees |
|  | and other workforce members. The organization shall have a process where exit |
|  | interviews address organization-defined information and security items, all |
|  | organization information-system-related property and access is retrieved and |
|  | revoked, knowledge transfer/information transitioned, and provides appropriate |
|  | personnel with access to official records created by a terminated employee or |
|  | when the arrangement of a workforce member ends. |
|  | The organization shall define any valid duties after termination of employment or |
|  | when the arrangement of a workforce member ends and shall be included in the |
|  | employee's or workforce member's contract or other arrangement. The |
|  | communication of termination responsibilities shall include ongoing security |
|  | requirements and legal responsibilities and, where appropriate, responsibilities |
|  | contained within any confidentiality agreement and the terms and conditions of |
|  | employment or other workforce arrangement continuing for a defined period after |
|  | the end of the employee's, contractor's or third-party user's employment or other |
|  | workforce arrangement. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PS-4- (HIGH) |
| **Mapping:** | FedRAMP PS-4 |
|  |
|  | HIPAA § 164.308(a)(3)(ii)(C) |
|  | IRS Pub 1075 v2014 9.3.13.4 |
|  |  |

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|  |  |
| --- | --- |
|  | ISO 27799-2008 7.5.3.1 |
|  | ISO/IEC 27002:2005 8.1.3 |
|  | ISO/IEC 27002:2005 8.3.1 |
|  | ISO/IEC 27002:2013 7.3.1 |
|  | MARS-E v2 PS-4 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  | NIST SP 800-53 R4 PS-4 |
|  |  |
| **Level 3 Implementation Requirements** | |
|  |  |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall have a documented termination checklist that identifies all |
|  | the steps to be taken and assets collected. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PS-4- (HIGH) |
| **Mapping:** | FedRAMP PS-4 |
|  |
|  | HIPAA § 164.308(a)(3)(ii)(C) |
|  | HITRUST SME |
|  | IRS Pub 1075 v2014 9.3.13.4 |
|  | MARS-E v2 PS-4 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  | NIST SP 800-53 R4 PS-4 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

All access and privileges to CMS systems, networks, and facilities are suspended when employees or contractors temporarily separate from the organization (e.g., leave of absence).

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The organization:

1. Initiates the following transfer or reassignment actions during the formal transfer process:
   1. re-issuing appropriate information system-related property (e.g., keys, identification cards, building passes);
   2. notification to security management;
   3. closing obsolete accounts and establishing new accounts; and
2. notifies defined personnel or roles (defined in the applicable security plan) within one (1) business day.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** When personnel are transferred or reassigned, the organization notifies defined

personnel or roles within five (5) business days.

**Control Reference: 02.h Return of Assets**

**Control Specification:** All employees, contractors and third-party users shall return all of the organization's assets in their possession upon termination of their employment, contract or agreement.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Media and Assets; Personnel; Third Parties and Contractors |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

The termination process shall include the return of all previously issued software, corporate documents, and equipment. Other organizational assets such as mobile computing devices, credit cards, access cards, manuals, and information stored on electronic media also shall be returned.

In cases where an employee, contractor or third-party user purchases the organization's equipment or uses their own personal equipment, procedures shall be followed to ensure that all relevant information is transferred to the organization and securely erased from the equipment. In cases where an employee, contractor or third-party user has knowledge that is important to ongoing operations, that information shall be documented and transferred to the

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|  |  |
| --- | --- |
|  | organization. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.03(2)(e) |
|  |
|  | AICPA CC5.6 |
|  | CMSRs 2013v2 PS-4- (HIGH) |
|  | CSA CCM v3.0.1 HRS-01 |
|  | FedRAMP PS-4 |
|  | HIPAA § 164.308(a)(3)(ii)(C) |
|  | IRS Pub 1075 v2014 9.3.13.4 |
|  | ISO 27799-2008 7.5.3.1 |
|  | ISO/IEC 27002:2005 8.3.2 |
|  | ISO/IEC 27002:2013 8.1.4 |
|  | MARS-E v2 PS-4 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  | NIST SP 800-53 R4 PS-4 |
|  | NIST SP 800-53 R4 PS-5 |
|  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |

**Control Reference: 02.i Removal of Access Rights**

**Control Specification:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | The access rights of all employees, contractors and third-party users to |
|  |  |  | information and information assets shall be removed upon termination of their |
|  |  |  | employment, contract or agreement, or adjusted upon a change of employment |
|  |  |  | (i.e. upon transfer within the organization). |
|  |  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |  |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Authorization; Personnel; Third Parties and Contractors; User Access |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |  | Subject to PCI Compliance |
|  |  |  | Subject to State of Massachusetts Data Protection Act |
|  |  |  | Subject to Texas Health and Safety Code |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Level 1 Implementation:** | Upon termination, the access rights for the terminated individual shall be disabled |
|  |
|  | in a timely manner, at least within twenty-four (24) hours. Changes of employment |
|  | or other workforce arrangement (e.g., transfers) shall be reflected in removal of all |
|  | access rights that were not approved for the new employment or workforce |
|  | arrangement. Access changes due to personnel transfer shall be managed |
|  | effectively. Old accounts shall be closed after ninety (90) days, and new accounts |
|  | shall be opened. The access rights that shall be removed or adapted include |
|  | physical and logical access, keys, identification cards, IT systems and |
|  | applications, subscriptions, and removal from any documentation that identifies |
|  | them as a current member of the organization. If a departing employee, |
|  | contractor, third-party user or other workforce member has known passwords for |
|  | accounts remaining active, these shall be changed upon termination or change of |
|  | employment, contract, agreement, or other workforce arrangement. |
|  | Access rights to information assets and facilities shall be reduced or removed |
|  | before the employment or other workforce arrangement terminates or changes, |
|  | depending on the evaluation of risk factors including: |
|  | 1. whether the termination or change is initiated by the employee, |
|  | contractor, third-party user, other workforce member, or by management |
|  | and the reason for termination; |
|  | 2. the current responsibilities of the employee, contractor, workforce |
|  | member or any other user; and |
|  | 3. the value of the assets currently accessible. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC5.4 |
|  |
|  | AICPA CC5.5 |
|  | CMSRs 2013v2 AC-2 (HIGH) |
|  | CMSRs 2013v2 PS-5- (HIGH) |
|  | CSA CCM v3.0.1 IAM-11 |
|  | FedRAMP AC-2 |
|  | FedRAMP PS-5 |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(3)(ii)(B) |
|  | HIPAA § 164.308(a)(3)(ii)(C) |
|  | HIPAA § 164.308(a)(4)(i) |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.308(a)(4)(ii)(C) |
|  | IRS Pub 1075 v2014 9.3.1.2 |
|  | IRS Pub 1075 v2014 9.3.13.4 |
|  | IRS Pub 1075 v2014 9.3.13.5 |
|  | ISO/IEC 27002:2005 11.2.4 |
|  | ISO/IEC 27002:2005 8.3.3 |
|  | ISO/IEC 27002:2013 9.2.6 |
|  | MARS-E v2 AC-2 |
|  |  |

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MARS-E v2 PS-5

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 AC-2

NIST SP 800-53 R4 PS-4

NIST SP 800-53 R4 PS-5

NRS 603A.215.1

PCI DSS v3.2 8.1.3

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization employs automated mechanisms to notify specific personnel or |
|  | roles (formally defined by the organization) upon termination of an individual. |
|  | Organizations shall immediately terminate the access rights following the supply |
|  | of a resignation notice, notice of dismissal, etc., prior to or during the personnel |
|  | termination process. Termination shall allow for immediate escorting out of the |
|  | site, if necessary, wherever continued access is perceived to cause an increased |
|  | risk, e.g., in the case of serious misconduct. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PS-4 (HIGH) |
| **Mapping:** | CMSRs 2013v2 PS-4(2) (HIGH) |
|  |
|  | FedRAMP PS-4 |
|  |  |

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HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(3)(ii)(C)

HIPAA § 164.308(a)(4)(ii)(C)

HIPAA § 164.312(a)(2)(ii)

IRS Pub 1075 v2014 9.3.13.4

ISO 27799-2008 7.5.3.2

ISO/IEC 27002:2005 8.3.3

ISO/IEC 27002:2013 9.2.6

MARS-E v2 PS-4

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 AC-2

NIST SP 800-53 R4 PS-4(2)

NRS 603A.215.1

PCI DSS v3.2 8.1.3

**Level CMS Implementation Requirements Level CMS Implementation:**

All access and privileges to CMS systems, networks and facilities are suspended when employees or contractors temporarily separate from the organization (e.g., leave of absence).

**Level Providers Implementation Requirements**

**Level Providers Implementation:**

All organizations that process personal health information shall, as soon as possible, terminate the user access privileges with respect to such information for any departing permanent or temporary employee, third-party contractor or volunteer upon termination of employment, contracting or volunteer activities.

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**Control Category: 03.0 - Risk Management**

**Objective Name: 03.01 Risk Management Program**

**Control**

**Objective:** To develop and implement a Risk Management Program that addresses Risk Assessments, Risk Mitigation, and Risk Evaluations.

**Control Reference: 03.a Risk Management Program Development**

**Control Specification:**

Organizations shall develop and maintain a risk management program to manage risk to an acceptable level.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Policies and Procedures; Risk Management and Assessments |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

The organization shall:

1. develop a comprehensive strategy to manage risk to organizational operations and assets, individuals, and other organizations associated with the operation and use of information systems, including physical and environmental hazards;
2. implement the strategy consistently across the organization, and
3. ensure that their information protection programs do not apply safeguards unnecessarily, e.g., to de-identified information.

Elements of the risk management program shall include:

1. the creation of a risk management policy for information systems and paper records that is formally approved by management and shall include:
   1. objectives of the risk management process;
   2. management's clearly stated level of acceptable risk, informed by

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|  |  |
| --- | --- |
|  | its role in the critical infrastructure and healthcare-specific risk |
|  | analysis; |
|  | iii. the connection between the risk management policy and the |
|  | organization's strategic planning processes; and |
|  | iv. documented risk assessment processes and procedures. |
|  | 2. regular performance of risk assessments; |
|  | 3. mitigation of risks identified from risk assessments and threat monitoring |
|  | procedures; |
|  | 4. risk tolerance thresholds are defined for each category of risk; |
|  | 5. the plan for managing operational risk communicated to stakeholders; |
|  | 6. reassessment of the risk management policy to ensure management's |
|  | stated level of acceptable risk is still accurate, previously decided upon |
|  | security controls are still applicable and effective, and to evaluate the |
|  | possible risk-level changes in the environment; |
|  | 7. updating the risk management policy if any of these elements have |
|  | changed; and |
|  | 8. repeating the risk management process prior to any significant change, |
|  | after a serious incident, whenever a new significant risk factor is identified, |
|  | or at a minimum annually. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 1 TAC § 390.2(b) |
|  |
|  | 23 NYCRR 500.02(b)(1) |
|  | 23 NYCRR 500.02(b)(2) |
|  | AICPA CC3.1 |
|  | AICPA CC3.2 |
|  | CMSRs 2013v2 AR-2 (HIGH) |
|  | CMSRs 2013v2 PM-11 (HIGH) |
|  | CMSRs 2013v2 PM-9 (HIGH) |
|  | CMSRs 2013v2 RA-1 (HIGH) |
|  | CMSRs 2013v2 RA-3 (HIGH) |
|  | CRR V2016 AM:MIL3.Q4 |
|  | CRR V2016 CM:G1.Q2 |
|  | CRR V2016 CM:MIL2.Q4 |
|  | CRR V2016 CM:MIL3.Q4 |
|  | CRR V2016 EDM:MIL2.Q2 |
|  | CRR V2016 EDM:MIL3.Q4 |
|  | CRR V2016 IM:MIL3.Q4 |
|  | CRR V2016 RM:G1.Q1 |
|  | CRR V2016 RM:G1.Q2 |
|  | CRR V2016 RM:G1.Q3 |
|  | CRR V2016 RM:G1.Q4 |
|  | CRR V2016 RM:G2.Q3 |
|  | CRR V2016 RM:G2.Q4 |
|  | CRR V2016 RM:G3.Q1 |
|  |  |

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CRR V2016 RM:G5.Q1

CRR V2016 RM:MIL2.Q4

CRR V2016 RM:MIL3.Q4

CRR V2016 RM:MIL4.Q3

CRR V2016 SA:G1.Q2

CRR V2016 SA:MIL2.Q1

CRR V2016 SA:MIL2.Q4

CRR V2016 SA:MIL3.Q4

CRR V2016 TA:MIL3.Q4

CRR V2016 VM:MIL2.Q1

CSA CCM v3.0.1 GRM-11

FedRAMP RA-1

FedRAMP RA-3

FFIEC IS v2016 A.2.11

FFIEC IS v2016 A.3.1

FFIEC IS v2016 A.6.4(a)

FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.2

FFIEC IS v2016 A.7.3

GDPR Article 24(1)

GDPR Article 25(1)

GDPR Article 32(1)

GDPR Article 32(2)

HIPAA § 164.308(a)(1)(i)

HIPAA § 164.308(a)(1)(ii)(A)

HIPAA § 164.308(a)(1)(ii)(B)

HIPAA § 164.316(a)

IRS Pub 1075 v2014 9.3.14.1

IRS Pub 1075 v2014 9.3.14.2

ISO 27799-2008 6.4.5

ISO 27799-2008 6.4.5.1

ISO 27799-2008 6.4.5.2

MARS-E v2 AR-2

MARS-E v2 PM-11

MARS-E v2 PM-9

MARS-E v2 RA-1

MARS-E v2 RA-3

NIST Cybersecurity Framework ID.BE-3

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework ID.RM-1

NIST Cybersecurity Framework ID.RM-2

NIST Cybersecurity Framework ID.RM-3

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NIST Cybersecurity Framework RS.MI-3

NIST SP 800-53 R4 AR-2

NIST SP 800-53 R4 PM-11

NIST SP 800-53 R4 PM-9

NIST SP 800-53 R4 RA-1

NIST SP 800-53 R4 RA-3

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework ID-1

PMI DSP Framework ID-2

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Formal risk assessment and risk treatment processes shall be implemented, |
|  | including a repository and tracking system for risk assessments performed, and |
|  | risk mitigation is completed or underway. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PM-4 (HIGH) |
| **Mapping:** | CMSRs 2013v2 RA-1 (HIGH) |
|  |
|  | CRR V2016 RM:G5.Q2 |
|  | CRR V2016 RM:MIL2.Q4 |
|  | CRR V2016 RM:MIL3.Q4 |
|  | CRR V2016 VM:G2.Q6 |
|  | CRR V2016 VM:MIL2.Q1 |
|  | FedRAMP RA-1 |
|  | FFIEC IS v2016 A.2.11 |
|  |  |

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FFIEC IS v2016 A.3.1

FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.2

FFIEC IS v2016 A.7.3

HIPAA § 164.308(a)(1)(i)

HIPAA § 164.316(a)

IRS Pub 1075 v2014 9.3.14.1

ISO 27799-2008 6.4.5.1

ISO 27799-2008 6.4.5.2

MARS-E v2 PM-4

MARS-E v2 RA-1

NIST Cybersecurity Framework ID.GV-4

NIST SP 800-53 R4 PM-4

NIST SP 800-53 R4 RA-1

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to FTC Red Flags Rule |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization shall develop and implement a written Identity Theft Prevention |
|  |  | Program that is designed to detect, prevent, and mitigate identity theft in |
|  |  | connection with the opening of an account or any existing account that involves, |
|  |  | or is designed to permit, multiple payments or transactions. |
|  |  | The organization shall define and incorporate existing policies and implement |
|  |  | procedures to: |
|  |  | 1. identify relevant patterns, practices, or specific activities that indicate the |
|  |  | possible existence of identity theft for the accounts, and incorporate those |
|  |  | patterns, practices, and activities into its program; |
|  |  | 2. detect patterns, practices, and activities that have been incorporated into |
|  |  | the program; |

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1. respond appropriately to any patterns, practices, and activities that are detected to prevent and mitigate identity theft; and
2. ensure the program and patterns, practices, and activities are updated at least annually, to reflect changes in risks to customers and to the safety and soundness of the organization.

'Personal identifying information' (PII) [also personally identifiable information] means information that alone or in conjunction with other information identifies an individual, including an individual's:

1. Name, social security number, date of birth, or government-issued identification number;
2. Mother's maiden name;
3. Unique biometric data, including the individual's fingerprint, voice print, and retina or iris image;
4. Unique electronic identification number, address, or routing code; and
5. Telecommunication access device.

The organization's identity theft program shall include protections for financial and medical identity theft.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 3** | 1 TAC § 390.2(a)(3) | |
|  | **Control Standard** | 16 | CFR Part §681 Appendix A I |
|  | **Mapping:** | 16 | CFR Part §681 Appendix A II |
|  |  |
|  |  | 16 | CFR Part §681 Appendix A V |
|  |  | 16 | CFR Part §681.1 (b)(3) |
|  |  | 16 | CFR Part §681.1 (d)(1) |
|  |  | 16 | CFR Part §681.1 (d)(2) |
|  |  | 16 | CFR Part §681.1 (f) |
|  |  | HIPAA § 164.308(a)(1)(i) | |
|  |  | HIPAA § 164.316(a) | |
|  |  | NIST Cybersecurity Framework ID.GV-4 | |
|  |  | NIST Cybersecurity Framework ID.RM-1 | |
|  |  | PMI DSP Framework ID-1 | |
|  |  |  |  |
|  | **Level Cloud Service** | **Implementation Requirements** | |
|  | **Providers** |
|  |  |  |  |
|  | **Level Cloud Service** | Cloud service providers shall review the risk management and governance | |
|  | **Providers Implementation:** |
|  |  | processes of their partners so that practices are consistent and aligned to account | |
|  |  | for risks inherited from other members of that partner's cloud supply chain. | |
|  |  |  |  |
|  | **Level De-ID Data** | **Implementation Requirements** | |
|  | **Environment** |
|  |  |  |  |
|  | **Level De-ID Data** | The organization (i) documents and implements a privacy risk management | |
|  | **Environment** |
|  | **Implementation:** | process that assesses privacy risk to individuals resulting from the collection, | |
|  |  | sharing, storing, transmitting, use, and disposal of personally identifiable | |
|  |  | information (PII); and (ii) conducts Privacy Impact Assessments (PIAs) for | |

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information systems, programs, or other activities that pose a privacy risk in accordance with applicable law, OMB policy, or any existing organizational policies and procedures.

**Level EHNAC Implementation Requirements**

**Level EHNAC**

**Implementation:** The organization must maintain a general analysis of most likely scenarios for breaches of PHI security.

**Level Federal Implementation Requirements**

**Level Federal Implementation:**

The organization:

1. documents and implements a privacy risk management process that assesses privacy risk to individuals resulting from the collection, sharing, storing, transmitting, use, and disposal of personally identifiable information (PII); and
2. conducts Privacy Impact Assessments (PIAs) for information systems, programs, or other activities that pose a privacy risk in accordance with applicable law, OMB policy, or any existing organizational policies and procedures.

**Level GDPR Implementation Requirements**

**Level GDPR**

**Implementation:** Organizations specifically apply security and privacy controls to all personal data, which includes but is not limited to PII or PHI.

**Control Reference: 03.b Performing Risk Assessments**

**Control Specification:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Risk Assessments shall be performed to identify and quantify risks. |
|  |  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |  |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Risk Management and Assessments |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  | Subject to HITRUST De-ID Framework Requirements |
|  | **Regulatory Factors:** |  | Subject to State of Massachusetts Data Protection Act |
|  |  |  | Subject to Texas Health and Safety Code |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Level 1 Implementation:** | Risk assessments shall be performed that address all the major domains of the |
|  |
|  | HITRUST CSF. Risk assessments shall be consistent and identify information |
|  | security risks to the organization. The organization shall account for risks from |
|  | sources including prior incidents experienced, changes in the environment (e.g., |
|  | new methods of attack, new sources of attack, new vulnerabilities), and any |
|  | supervisory guidance (e.g., third-party consultancy). |
|  | They may be quantitative, semi- or quasi-quantitative, or qualitative but shall be |
|  | consistent and comparable, so the prioritization of resources to manage risk can |
|  | be performed. Risk assessments are to be performed at planned intervals, or |
|  | when major changes occur in the environment, and the results reviewed annually. |
|  | Risk assessments (analyses), which are used to determine if a breach of |
|  | unsecured protected health information (PHI) is reportable to Secretary of Health |
|  | and Human Services, must demonstrate there is a low probability of compromise |
|  | (lo pro co) rather than a significant risk of harm. The terms breach and PHI are as |
|  | defined by the Secretary. The methodology shall, at a minimum, address the |
|  | following factors: |
|  | 1. the nature of the PHI involved, including the types of identifiers involved |
|  | and the likelihood of re-identification; |
|  | 2. the unauthorized person who used the PHI or to whom the disclosure was |
|  | made; |
|  | 3. whether the PHI was actually acquired or viewed; |
|  | 4. the extent to which the risk to the PHI has been mitigated; and |
|  | 5. and other factors/guidance promulgated by the Secretary. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 16 CFR Part §681 Appendix A II(b) |
| **Mapping:** | 201 CMR 17.03(2)(b) |
|  |
|  | 23 NYCRR 500.02(b)(1) |
|  | 23 NYCRR 500.09(a) |
|  | 23 NYCRR 500.09(b)(2) |
|  | AICPA CC3.1 |
|  | CMSRs 2013v2 RA-3 (HIGH) |
|  | CRR V2016 AM:MIL3.Q4 |
|  | CRR V2016 CCM:MIL3.Q4 |
|  | CRR V2016 CM:G4.Q2 |
|  | CRR V2016 CM:MIL3.Q4 |
|  | CRR V2016 RM:G1.Q1 |
|  | CRR V2016 RM:G2.Q1 |
|  | CRR V2016 RM:G2.Q1 |
|  | CRR V2016 RM:G3.Q1 |
|  | CRR V2016 RM:G4.Q1 |
|  | CRR V2016 RM:G5.Q1 |
|  | CRR V2016 RM:MIL2.Q4 |
|  | CRR V2016 VM:MIL3.Q4 |
|  |  |

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CSA CCM v3.0.1 GRM-02

De-ID Framework v1 Risk Assessments: Assessments

FedRAMP RA-3

FFIEC IS v2016 A.4.1

FFIEC IS v2016 A.6.28(c)

FFIEC IS v2016 A.6.28(c)

FFIEC IS v2016 A.6.4(a)

FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.2

FFIEC IS v2016 A.7.3

FFIEC IS v2016 A.7.4(e)

FFIEC IS v2016 A.8.1(i)

GDPR Article 35(1)

GDPR Article 35(11)

GDPR Article 35(3)

HIPAA § 164.308(a)(1)(ii)(A)

HIPAA § 164.308(a)(1)(ii)(B)

HIPAA § 164.308(a)(2)

HIPAA § 164.308(a)(7)(ii)(E)

HIPAA § 164.316(a)

HIPAA § 164.402(2)

HITRUST SME

ISO/IEC 27002:2005 12.6.1

ISO/IEC 27002:2005 14.1.2

ISO/IEC 27002:2005 4.1

ISO/IEC 27002:2005 6.2.1

ISO/IEC 27002:2013 12.6.1

ISO/IEC 27002:2013 17.1.1

MARS-E v2 RA-3

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework ID.RA-3

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST Cybersecurity Framework ID.RM-1

NIST SP 800-53 R4 RA-3

NRS 603A.215.1

PCI DSS v3.2 12.2

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework RS-1

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**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to FTC Red Flags Rule |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall update the results of a comprehensive risk assessment |
|  |  | every two (2) years, or whenever there is a significant change to the information |
|  |  | system or operational environment, assesses a subset of the security controls |
|  |  | within every three hundred sixty-five (365) days during continuous monitoring, and |
|  |  | reviews the risk assessment results annually. |
|  |  | The organization shall employ assessors or assessment teams with an |
|  |  | organization-defined level of independence to conduct security control |
|  |  | assessments and ensure impartiality of the results. These assessors shall accept |
|  |  | the results of an assessment performed by another assessor when the |
|  |  | assessment meets the same organization-defined level of independence. |
|  |  | A formal, documented process shall be in place for identifying risks and |
|  |  | performing risk assessments, including the criteria for the evaluation and |
|  |  | categorization of risks, and communicating the results of the risk assessments to |
|  |  | the affected parties, and to management. A repository and tracking system shall |
|  |  | be in place to manage risk assessments performed. |
|  |  | The likelihood and magnitude of harm from the unauthorized access, use, |
|  |  | disclosure, disruption, modification, or destruction of the information system and |
|  |  | the information it processes, stores, or transmits shall be included in the risk |
|  |  | assessment process. The likelihood and impact associated with inherent and |
|  |  | residual risk should be determined independently, considering all risk categories |

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(e.g., audit results, threat and vulnerability analysis, and regulatory compliance).

Information security risk assessments shall require knowledge of the following:

1. external environment factors that could exacerbate or moderate any or all of the levels of the risk components described previously;
2. the types of accounts offered by the organization;
3. the methods the organization provides to open and access its accounts;
4. knowledge and experiences of incident histories and actual case impact scenarios; and
5. systems architectures.

|  |  |  |  |
| --- | --- | --- | --- |
| **Level 2** | 1 | TAC § 390.2(a)(3) | |
| **Control Standard** | 1 | TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 16 | | CFR Part §681 Appendix A II(a) |
|  |
|  | 16 | | CFR Part §681.1 (c) |

CMSRs 2013v2 CA-2 (HIGH)

CMSRs 2013v2 CA-2(1) (HIGH)

CMSRs 2013v2 RA-3 (HIGH)

CRR V2016 AM:MIL4.Q1

CRR V2016 AM:MIL4.Q2

CRR V2016 CCM:MIL4.Q1

CRR V2016 CCM:MIL4.Q2

CRR V2016 CM:MIL4.Q1

CRR V2016 CM:MIL4.Q2

CRR V2016 EDM:MIL4.Q1

CRR V2016 IM:MIL4.Q1

CRR V2016 IM:MIL4.Q2

CRR V2016 RM:MIL2.Q1

CRR V2016 RM:MIL4.Q1

CRR V2016 RM:MIL5.Q2

CRR V2016 SA:MIL4.Q1

CRR V2016 SCM:MIL4.Q1

CRR V2016 TA:MIL4.Q1

CRR V2016 VM:MIL4.Q1

CSA CCM v3.0.1 GRM-10

FedRAMP CA-2

FedRAMP CA-2(1)

FedRAMP CA-2(3)

FedRAMP RA-3

FFIEC IS v2016 A.4.1

FFIEC IS v2016 A.4.1

FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.2

FFIEC IS v2016 A.7.3

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FFIEC IS v2016 A.8.1(i)

HIPAA § 164.308(a)(1)(ii)(A)

HIPAA § 164.308(a)(1)(ii)(B)

HIPAA § 164.308(a)(2)

HIPAA § 164.316(a)

HITRUST SME

IRS Pub 1075 v2014 9.3.14.2

IRS Pub 1075 v2014 9.3.4.2

IRS Pub 1075 v2014 9.4.1

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO/IEC 27002:2005 4.1

MARS-E v2 CA-2

MARS-E v2 CA-2(1)

MARS-E v2 RA-3

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST SP 800-53 R4 CA-2

NIST SP 800-53 R4 CA-2(1)

NIST SP 800-53 R4 RA-3

PCI DSS v3.2 12.2

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall document the risk assessment results in the applicable security plan.

The organization shall assess the security controls in the information system within every three hundred sixty-five (365) days to determine the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the security requirements for the system.

The annual security risk assessment requirement as mandated by OMB requires all controls attributable to a system or application to be assessed over a three (3) year period. To meet this requirement, a subset of the CMSRs shall be tested each year so that all security controls are tested during a three (3) year period.

The Business Owner notifies the CMS CISO within thirty (30) days whenever updates are made to system security authorization artifacts or significant role changes occur (e.g., Business Owner, System Developer/Maintainer, ISSO).

The organization disseminates risk assessment results to affected stakeholders, Business Owners(s), and the CMS CISO.

The organization shall employ assessors or assessment teams with a CMS CISO-defined level of independence to conduct security control assessments and

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ensure impartiality of the results.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization accepts the results of an assessment of any FedRAMP Accredited 3PAO performed by any FedRAMP Accredited 3PAO when the assessment meets the conditions of an Authorizing Official in the FedRAMP Repository.

**Level FFIEC IS Implementation Requirements**

**Level FFIEC IS Implementation:**

The organization implements a risk identification process that produces manageable groupings of information security threats, which include the following:

1. A threat assessment to help focus the risk identification efforts.
2. A method or taxonomy for categorizing threats, sources, and vulnerabilities.
3. A process to determine the institution's information security risk profile.
4. A validation of the risk identification process through audits, self-assessments, penetration tests, and vulnerability assessments.
5. A validation though audits, self-assessments, penetration tests, and vulnerability assessments that risk decisions are informed by appropriate identification and analysis of threats and other potential causes of loss.

The organization implements threat modeling (e.g., development of attack trees) as part of its risk assessment process to assist in identifying and quantifying risk in better understanding the nature frequency, and sophistication of threats.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The agency shall conduct, periodically, but at least annually, an assessment of the security controls in the systems that receive, store, process or transmit FTI, including cloud environments immediately prior to implementation of the cloud environment and during each annual risk assessment (or update to an existing risk assessment) thereafter.

The agency shall ensure each aspect of a data warehouse is assessed for risk, including hardware, software, data transport, and data storage. Any risk documents shall identify and document all vulnerabilities, associated with a data warehousing environment.

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

Unless (a) processing has a legal basis in EU law or the law of the Member State to which the controller is subject, (b) that law regulates the processing in question, and (c) a data impact assessment has already been carried out as part of a general impact assessment, then where data processing is likely to result in a

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high risk to the rights and liberties (freedoms) of natural persons, the controllerprior to processingcarries out an assessment of the impact of said processing on the protection of personal data, taking into account the nature, scope, context and purposes of the processing. A single assessment may address a set of similar processing operations that present similar high risks.

Where necessary, the controller carries out a review to assess if processing is performed in accordance with the data impact assessment, at least when there is a change in the risk represented by processing operations.

A data protection impact assessment is required in the case of:

1. a systematic and extensive evaluation of personal aspects relating to natural persons which is based on automated processing, including profiling, and on which decisions;
2. are based that produce legal effects concerning the natural person or similarly significantly affect the natural person;
3. processing on a large scale of special categories of personal data, or of personal data relating to criminal convictions and offences; or
4. a systematic monitoring of a publicly accessible area on a large scale.

The controller seeks the advice of the data protection officer, where designated, when carrying out a data protection impact assessment and, where appropriate, seeks out the views of data subjects or their representatives on the intended processing, without prejudice to the protection of commercial or public interests or the security of processing operations.

Data protection impact assessments contain at least:

1. a systematic description of the envisaged processing operations and the purposes of the processing, including, where applicable, the legitimate interest pursued by the controller;
2. an assessment of the necessity and proportionality of the processing operations in relation to the purposes;
3. an assessment of the risks to the rights and freedoms of data subjects referred to in paragraph 1; and
4. the measures envisaged to address the risks, including safeguards, security measures and mechanisms to ensure the protection of personal data and to demonstrate compliance with the EU GDPR taking into account the rights and legitimate interests of data subjects and other persons concerned.

The controller consults the supervisory authority prior to processing where a data protection impact assessment indicates that the processing would result in a high risk in the absence of measures taken by the controller to mitigate the risk. When consulting the supervisory authority, the controller provides the supervisory authority with:

1. where applicable, the respective responsibilities of the controller, joint controllers and processors involved in the processing, in particular for processing within a group of undertakings;
2. the purposes and means of the intended processing;
3. the measures and safeguards provided to protect the rights and freedoms of data subjects pursuant to the EU GDPR;

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1. where applicable, the contact details of the data protection officer;
2. the data protection impact assessment; and
3. any other information requested by the supervisory authority.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization shall

1. Develop a documented security and privacy assessment plan that describes the scope of the assessment, including security and privacy controls and control enhancements under the assessment, assessment procedures to be used to determine control effectiveness, and the assessment environment, assessment team, and assessment roles and responsibilities;
2. Assess the security and privacy controls in the information system within every three-hundred-sixty-five (365) days in accordance with the current Catalog of Minimum Acceptable Risk Security and Privacy Controls for Exchanges to determine the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the established security and privacy requirements;
3. Produce an assessment report that documents the result of the assessment; and
4. Provide the results of the security and privacy control assessment within every three hundred sixty-five (365) days, in writing, to the Business Owner who is responsible for reviewing the assessment documentation and update system security documentation where necessary to reflect any changes to the system.

A security and privacy assessment of all security and privacy controls must be conducted prior to issuing the authority to operate for all newly implemented, or significantly changed systems.

The annual security assessment requirement mandated by CMS requires all Minimum Security Controls attributable to a system or application to be assessed over a three (3) year period. To meet this requirement, a subset of the Minimum Acceptable Risk Controls for Exchanges shall be tested each year so that all security controls are tested during a three (3) year period.

The Business Owner notifies the CMS within thirty (30) days whenever updates are made to system security and privacy authorization artifacts or when significant role changes occur (e.g., Business Owner, System Developer/Maintainer, ISSO).

An independent assessment of all security and privacy controls is conducted every three (3) years or with each major system change.

**Level PCI Implementation Requirements Level PCI Implementation:**

Formal risk assessments shall be performed at least annually and upon significant changes to the environment. The assessments shall identify critical assets, threats and vulnerabilities and result in a formal, documented analysis of risk.

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**Control Reference: 03.c Risk Mitigation**

**Control Specification:**

|  |  |
| --- | --- |
|  | Risks shall be mitigated to an acceptable level. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Documentation and Records; IT Organization and Management Roles and |
|  | Responsibilities; Risk Management and Assessments |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

Risks can be dealt with in one of four ways:

1. Avoidance - This approach eliminates the risk by avoidance of the activity which provides the risk. For example, the risk associated with utilization of wireless technologies can be mitigated by deciding not to use wireless technologies at all.
2. Reduction - Risk can be reduced by way of controls that can reduce the likelihood or impact of a risk. An example would be encryption of network traffic to minimize risks that threaten the confidentiality of data.
3. Transference - Risk can be reduced by shifting it to an outside entity. An example would be the purchase of insurance against fire damage.
4. Acceptance - Organizations can choose to accept risk by not selecting any of the aforementioned approaches. When acceptance is selected, management acceptance must be documented.

Organizations shall define and document the criteria to determine whether or not a risk shall be avoided, accepted, transferred or treated.

The factors to be taken into account shall include the following:

1. industry sector, industry or organizational laws, regulations and standards;
2. clinical or other priorities (in the case of health-related organizations);
3. cultural fit;
4. patient reactions (in the case of health-related organizations);
5. coherence with IT, corporate risk acceptance, and clinical strategy (in the case of health organizations);
6. cost;

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|  |  |  |
| --- | --- | --- |
|  | 7. | effectiveness; |
|  | 8. | type of protection; |
|  | 9. number of threats covered; | |
|  | 10. risk level at which the controls become justified; | |
|  | 11. risk level that led to the recommendation being made; | |
|  | 12. alternatives already in place; and | |
|  | 13. additional benefits derived. | |
|  | The organization implements a process for ensuring that corrective action plans | |
|  | for the security program and the associated organizational information systems | |
|  | are prioritized and maintained; and the remedial information security actions | |
|  | necessary to mitigate risk to organizational operations and assets, individuals, | |
|  | and other organizations are documented. | |
|  | The organization shall review corrective action plans (plans of action and | |
|  | milestones) for consistency with the organizational risk management strategy and | |
|  | organization-wide priorities for risk response actions. | |
|  | The organization shall update existing remediation or corrective action plans | |
|  | monthly based on the findings from security controls assessments, security | |
|  | impact analyses, and continuous monitoring activities. | |
|  | The covered entity mitigates any harmful effect that is known to the covered entity | |
|  | of a use or disclosure of PHI by the covered entity or its business associates, in | |
|  | violation of its policies and procedures. | |
|  | The organization implements an integrated control system characterized using | |
|  | different control types (e.g., layered, preventative, detective, corrective, and | |
|  | compensating) that mitigates identified risks. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 23 NYCRR 500.09(b)(2) | |
|  |
|  | 23 NYCRR 500.09(b)(3) | |
|  | AICPA CC3.2 | |
|  | CMSRs 2013v2 CA-5 (HIGH) | |
|  | CMSRs 2013v2 CA-5(1) (HIGH) | |
|  | CMSRs 2013v2 PM-4 (HIGH) | |
|  | CRR V2016 CCM:MIL3.Q4 | |
|  | CRR V2016 CM:G1.Q2 | |
|  | CRR V2016 CM:G3.Q1 | |
|  | CRR V2016 CM:G3.Q2 | |
|  | CRR V2016 CM:G4.Q2 | |
|  | CRR V2016 EDM:MIL3.Q4 | |
|  | CRR V2016 IM:MIL3.Q4 | |
|  | CRR V2016 RM:G1.Q3 | |
|  | CRR V2016 RM:G2.Q3 | |
|  | CRR V2016 RM:G4.Q2 | |
|  |  |  |

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CRR V2016 RM:MIL2.Q4

CRR V2016 RM:MIL3.Q4

CRR V2016 RM:MIL4.Q1

CRR V2016 RM:MIL4.Q2

CRR V2016 SA:MIL3.Q4

CRR V2016 TA:MIL3.Q4

CRR V2016 VM:G3.Q1

CRR V2016 VM:G3.Q2

CRR V2016 VM:MIL3.Q4

CSA CCM v3.0.1 GRM-11

FedRAMP CA-5

FFIEC IS v2016 A.6.4

FFIEC IS v2016 A.6.4(a)

FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.2

FFIEC IS v2016 A.7.3

HIPAA § 164.306(e)

HIPAA § 164.308(a)(1)(ii)(B)

HIPAA § 164.530(f)

IRS Pub 1075 v2014 9.3.4.4

ISO/IEC 27002:2005 4.2

ISO/IEC 27002:2005 6.2.1

MARS-E v2 CA-5

MARS-E v2 CA-5(1)

MARS-E v2 PM-4

NIST Cybersecurity Framework ID.RA-6

NIST Cybersecurity Framework PR.IP-12

NIST Cybersecurity Framework PR.IP-7

NIST Cybersecurity Framework RS.MI-3

NIST SP 800-53 R4 CA-5

NIST SP 800-53 R4 CA-5(1)

NIST SP 800-53 R4 PM-4

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |

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|  |  |
| --- | --- |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization develops a formal mitigation plan that shall include: |
|  | 1. performing a cost/benefit analysis for identified countermeasures; |
|  | 2. documenting a risk treatment plan which provides recommended |
|  | countermeasures to management; |
|  | 3. documenting and presenting risk treatment summary reports to |
|  | management; |
|  | 4. management approving countermeasures documented in the risk |
|  | treatment plan; |
|  | 5. mapping decisions taken against the list of HITRUST CSF controls; |
|  | 6. plans for implementations (current and future) documented in the |
|  | organization's security improvement plan; and |
|  | 7. implementing the management-approved risk treatment plan; |
|  | 8. continually assessing the capability of technology needed to sustain an |
|  | appropriate level of information security based on the size, complexity, |
|  | and risk appetite of the organization. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CA-5 (HIGH) |
| **Mapping:** | CRR V2016 CM:G4.Q1 |
|  |
|  | CRR V2016 RM:MIL3.Q1 |
|  | CRR V2016 RM:MIL4.Q1 |
|  | CRR V2016 RM:MIL4.Q2 |
|  | CRR V2016 RM:MIL5.Q2 |
|  | CRR V2016 VM:G3.Q1 |
|  | CRR V2016 VM:G3.Q2 |
|  | CRR V2016 VM:G4.Q1 |
|  | CSA CCM v3.0.1 GRM-11 |
|  | FedRAMP CA-5 |
|  | FFIEC IS v2016 A.6.4 |
|  | FFIEC IS v2016 A.7.1 |
|  | FFIEC IS v2016 A.7.2 |
|  | FFIEC IS v2016 A.7.3 |
|  | HIPAA § 164.308(a)(1)(ii)(B) |
|  | IRS Pub 1075 v2014 9.3.4.4 |
|  |  |

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ISO/IEC 27002:2005 12.6.1

ISO/IEC 27002:2005 14.1.2

ISO/IEC 27002:2005 15.3.1

ISO/IEC 27002:2005 4.2

ISO/IEC 27002:2013 12.6.1

ISO/IEC 27002:2013 12.7.1

ISO/IEC 27002:2013 17.1.1

MARS-E v2 CA-5

NIST Cybersecurity Framework ID.RA-6

NIST Cybersecurity Framework PR.IP-12

NIST SP 800-53 R4 CA-5

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall employ automated mechanisms to help ensure that the POA&M for the information system is accurate, up to date, and readily available.

The organization shall:

1. develop and submit a Plan of Action and Milestones (POA&M) for the information system within thirty (30) days of the final results for every internal/external audit/review or test (e.g., ST&E, penetration test) to document the organization's planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls, and to reduce or eliminate known vulnerabilities in the system; and
2. update and submit existing POA&M monthly until all the findings are resolved based on the findings from security controls assessments, security impact analyses, and continuous monitoring activities.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The organization updates the Plan of Action and Milestones (POA&M) at least monthly based on the findings from security controls assessments, security

impact analyses, and continuous monitoring activities.

**Level FFIEC IS Implementation Requirements**

**Level FFIEC IS Implementation:**

The organization implements processes to measure risks to guide its recommendations for and use of mitigating controls using threat analysis tools (e.g., event trees, attack trees, kill chains) in understanding and supporting the measurement of information security risks. Such tools shall:

1. Map threats and vulnerabilities
2. Incorporate legal and regulatory requirements
3. Improve consistency in risk measurement
4. Identify areas for mitigation
5. Allow comparisons among different threats, events, and potential

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mitigating controls

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The agency must submit an updated Corrective Action Plan (CAP) twice each year to address corrective actions identified during an on-site safeguards review until all findings are closed. The CAP is submitted as an attachment to the SAR, and on the CAP due date which is six (6) months from the scheduled SAR due date.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization shall employ automated mechanisms to help ensure that the POA&M for the information system is accurate, up to date, and readily available.

**Control Reference: 03.d Risk Evaluation**

|  |  |
| --- | --- |
|  |  |
| **Control Specification:** | Risks shall be continually evaluated and assessed. |
|  |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | IT Organization and Management Roles and Responsibilities; Risk Management |
|  | and Assessments |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The risk management program shall include the requirement that risk |
|  |
|  | assessments be re-evaluated at least annually, or when there are significant |
|  | changes in the environment. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC3.1 |
| **Mapping:** | AICPA CC3.2 |
|  |
|  | CMSRs 2013v2 RA-3(HIGH) |
|  | CRR V2016 RM:MIL4.Q2 |
|  | CRR V2016 RM:MIL4.Q3 |
|  | FedRAMP RA-3 |
|  |  |

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FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.1

FFIEC IS v2016 A.7.1

IRS Pub 1075 v2014 9.3.14.2

MARS-E v2 RA-3

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework ID.RA-3

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST SP 800-53 R4 RA-3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to FTC Red Flags Rule |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The risk management process shall be integrated with the change management |
|  |  | process within the organization, and risk assessments shall be conducted |
|  |  | whenever there is a significant change in the environment, or there is a change |
|  |  | that could have a significant impact. Results of the risk assessments shall be |
|  |  | included in the change management process, so they may guide the decisions |
|  |  | within the change management process (e.g., approvals for changes). |
|  |  | The organization shall update the risk assessment: |
|  |  | 1. before issuing a new formal authorization to operate or |
|  |  | 2. within every three (3) years, whichever comes first, or |
|  |  | 3. whenever there are significant changes to the information system or |

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environment of operation (including the identification of new threats and vulnerabilities), or

1. other conditions that may impact the security or authorization state of the system.

The privacy, security and risk management program(s) shall be updated to reflect changes in risks based on:

1. any experiences with security incidents, weaknesses, breaches or identity theft;
2. changes in the environment (e.g., new methods of attack, new sources of attack, new vulnerabilities);
3. changes in prevention, detection or response methods for security;
4. changes within the organization including:
   1. organizational mergers, acquisitions, alliances, joint ventures or service provider arrangements;
   2. new systems or facilities;
   3. new service offerings; and
   4. new types of accounts.

|  |  |  |  |
| --- | --- | --- | --- |
| **Level 2** | 1 | TAC § 390.2(a)(3) | |
| **Control Standard** | 1 | TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 16 | | CFR Part §681 Appendix A V |
|  |
|  | 16 | | CFR Part §681 Appendix A V(a) |
|  | 16 | | CFR Part §681 Appendix A V(b) |
|  | 16 | | CFR Part §681 Appendix A V(c) |
|  | 16 | | CFR Part §681 Appendix A V(d) |
|  | 16 | | CFR Part §681 Appendix A V(e) |

CMSRs 2013v2 CM-3 (HIGH)

CMSRs 2013v2 RA-3 (HIGH)

CSA CCM v3.0.1 GRM-08

FedRAMP CM-3

FedRAMP RA-3

FFIEC IS v2016 A.7.1

HIPAA § 164.308(a)(1)(ii)(A)

IRS Pub 1075 v2014 9.3.14.2

ISO/IEC 27002:2005 10.1.2

ISO/IEC 27002:2013 12.1.2

MARS-E v2 CM-3

MARS-E v2 RA-3

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework ID.RA-3

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST SP 800-53 R4 CM-3

NIST SP 800-53 R4 RA-3

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**Control Category: 04.0 - Security Policy**

**Objective Name: 04.01 Information Security Policy**

**Control**

**Objective:** To provide management direction in line with business objectives and relevant laws and regulations, demonstrate support for, and commitment to information

security through the issue and maintenance of information secur

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 04.a Information Security Policy Document** | |
|  |  |  |
|  | **Control Specification:** | Information Security Policy documents shall be approved by management, and |
|  |  |
|  |  | published and communicated to all employees and relevant external parties. |
|  |  | Information Security Policy documents shall establish the direction of the |
|  |  | organization and align to best practices, regulatory, federal/state and international |
|  |  | laws where applicable. The Information Security policy documents shall be |
|  |  | supported by a strategic plan and a security program with well-defined roles and |
|  |  | responsibilities for leadership and officer roles. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Contingency Planning; Documentation and Records; IT |
|  |  | Organization and Management Roles and Responsibilities; Policies and |
|  |  | Procedures; Requirements (Legal and Contractual); Third Parties and Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | Information security policy documents shall be developed, published, |
|  |  |
|  |  | disseminated and implemented. The information security policy documents shall |
|  |  | state the purpose and scope of the policy, communicate management's |
|  |  | commitment, describe management and workforce member's roles and |
|  |  | responsibilities, and establish the organization's approach to managing |
|  |  | information security. |
|  |  |  |

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As applicable to the focus of a particular document, policies shall contain:

1. The organizations mission, vision, values, objectives, activities, and purpose, including the organizations place in critical infrastructure;
2. a definition of information security, its overall objectives and scope, and the importance of security as an enabling mechanism for information sharing;
3. a statement of management intent, supporting the goals and principles of information security in line with the business strategy and objectives;
4. a framework for setting control objectives and controls, including the structure of risk assessment and risk management;
5. the need for information security;
6. the goals of information security;
7. compliance scope;
8. legislative, regulatory, and contractual requirements, including those for the protection of covered information and the legal and ethical responsibilities to protect this information;
9. arrangements for notification of information security incidents, including a channel for raising concerns regarding confidentially, without fear of blame or recrimination.
10. a brief explanation of the security policies, principles, standards, and compliance requirements of particular importance to the organization, including but not limited to CSF control objectives such as:
    1. compliance with legislative, regulatory, and contractual requirements;
    2. security education, training, and awareness requirements for the workforce, including researchers and research participants;
    3. incident response and business continuity management;
    4. consequences of information security policy violations;
    5. continuous monitoring;
    6. designating and maintaining an appropriately resourced and technically experienced information security team;
    7. physical security of areas where sensitive information (e.g., ePHI, PCI and PMI data); and
    8. coordination among organizational entities;
11. a definition of general and specific responsibilities for information security management, including reporting information security incidents;
12. prescribes the development, dissemination, and review/update of formal, documented procedures to facilitate the implementation of security policy and associated security controls; and
13. references to documentation which may support the policy (e.g., more detailed security policies and procedures for specific information systems or security rules users shall comply with).

These information security policy documents shall be communicated throughout the organization to users in a form that is relevant, accessible and understandable to the intended reader.

In the instance of any acquisitions, re-organizations or mergers, or where the organization obtains support from third-party organizations or collaborates with third parties, and especially if these activities involve other jurisdictions, the policy framework shall include documented policy, controls and procedures that cover

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|  |  |  |
| --- | --- | --- |
|  | such interactions and that specify the responsibilities of all parties. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 23 | NYCRR 500.02(b)(2) |
|  |
|  | 23 NYCRR 500.03 | |
|  | 23 | NYCRR 500.03(a) |
|  | 23 | NYCRR 500.03(b) |
|  | 23 | NYCRR 500.03(c) |
|  | 23 | NYCRR 500.03(d) |
|  | 23 | NYCRR 500.03(e) |
|  | 23 | NYCRR 500.03(f) |
|  | 23 | NYCRR 500.03(g) |
|  | 23 | NYCRR 500.03(h) |
|  | 23 | NYCRR 500.03(i) |
|  | 23 | NYCRR 500.03(j) |
|  | 23 | NYCRR 500.03(k) |
|  | 23 | NYCRR 500.03(l) |
|  | 23 NYCRR 500.03(m) | |
|  | 23 | NYCRR 500.03(n) |
|  | AICPA CC1.2 | |
|  | CMSRs 2013v2 AC-1 | |
|  | CMSRs 2013v2 AT-1 | |
|  | CMSRs 2013v2 AU-1 | |
|  | CMSRs 2013v2 CA-1 | |
|  | CMSRs 2013v2 CM-1 | |
|  | CMSRs 2013v2 CP-1 | |
|  | CMSRs 2013v2 IA-1 | |
|  | CMSRs 2013v2 MA-1 | |
|  | CMSRs 2013v2 PE-1 | |
|  | CMSRs 2013v2 PL-1 | |
|  | CMSRs 2013v2 PM-1 | |
|  | CMSRs 2013v2 PS-1 | |
|  | CMSRs 2013v2 RA-1 | |
|  | CMSRs 2013v2 SA-1 | |
|  | CMSRs 2013v2 SC-1 | |
|  | CMSRs 2013v2 SI-1 | |
|  | COBIT 4.1 DS5.2 | |
|  | COBIT 5 APO13.02 | |
|  | CRR V2016 AM:G1.Q3 | |
|  | CRR V2016 AM:G1.Q4 | |
|  | CRR V2016 AM:MIL5.Q1 | |
|  |  |  |

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CRR V2016 CCM:MIL5.Q1

CRR V2016 CM:G1.Q1

CRR V2016 CM:G2.Q1

CRR V2016 CM:MIL2.Q1

CRR V2016 CM:MIL2.Q2

CRR V2016 CM:MIL5.Q1

CRR V2016 EDM:MIL5.Q1

CRR V2016 IM:MIL5.Q1

CRR V2016 RM:MIL2.Q2

CRR V2016 RM:MIL5.Q1

CRR V2016 SA:MIL2.Q2

CRR V2016 SA:MIL2.Q4

CRR V2016 SA:MIL5.Q1

CRR V2016 SCM:MIL5.Q1

CRR V2016 TA:MIL5.Q1

CRR V2016 VM:MIL2.Q2

CRR V2016 VM:MIL5.Q1

CSA CCM v3.0.1 GRM-06

FedRAMP AT-1

FedRAMP AU-1

FedRAMP CA-1

FedRAMP CM-1

FedRAMP CP-1

FedRAMP IA-1

FedRAMP IR-1

FedRAMP MA-1

FedRAMP MP-1

FedRAMP PE-1

FedRAMP PL-1

FedRAMP PS-1

FedRAMP RA-1

FedRAMP SA-1

FedRAMP SC-1

FedRAMP SI-1

FFIEC IS v2016 A.6.1

GDPR Article 24(2)

HIPAA § 164.312(c)(1)

HIPAA § 164.316(a)

HIPAA § 164.316(b)(2)(i)

HIPAA § 164.316(b)(2)(ii)

HIPAA § 164.414(a)

HIPAA § 164.530(i)

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HITRUST SME

IRS Pub 1075 v2014 9.3.1.1

IRS Pub 1075 v2014 9.3.10.1

IRS Pub 1075 v2014 9.3.11.1

IRS Pub 1075 v2014 9.3.12.1

IRS Pub 1075 v2014 9.3.13.1

IRS Pub 1075 v2014 9.3.14.1

IRS Pub 1075 v2014 9.3.15.1

IRS Pub 1075 v2014 9.3.16.1

IRS Pub 1075 v2014 9.3.17.1

IRS Pub 1075 v2014 9.3.2.1

IRS Pub 1075 v2014 9.3.3.1

IRS Pub 1075 v2014 9.3.4.1

IRS Pub 1075 v2014 9.3.5.1

IRS Pub 1075 v2014 9.3.6.1

IRS Pub 1075 v2014 9.3.7.1

IRS Pub 1075 v2014 9.3.8.1

IRS Pub 1075 v2014 9.3.9.1

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO 27799-2008 7.2.1

ISO/IEC 27002:2005 5.1.1

ISO/IEC 27002:2013 5.1.1

JCAHO IM.02.01.03, EP 1

MARS-E v2 AC-1

MARS-E v2 AR-1

MARS-E v2 AT-1

MARS-E v2 AU-1

MARS-E v2 CA-1

MARS-E v2 CM-1

MARS-E v2 CP-1

MARS-E v2 IA-1

MARS-E v2 IR-1

MARS-E v2 MA-1

MARS-E v2 PE-1

MARS-E v2 PL-1

MARS-E v2 PM-1

MARS-E v2 PS-1

MARS-E v2 RA-1

MARS-E v2 SC-1

MARS-E v2 SI-1

NIST Cybersecurity Framework ID.GV-1

NIST Cybersecurity Framework ID.GV-2

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NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework ID.GV-4

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AT-1

NIST SP 800-53 R4 AU-1

NIST SP 800-53 R4 CA-1

NIST SP 800-53 R4 CM-1

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 IA-1

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 MA-1

NIST SP 800-53 R4 PE-1

NIST SP 800-53 R4 PL-1

NIST SP 800-53 R4 PM-1

NIST SP 800-53 R4 PS-1

NIST SP 800-53 R4 RA-1

NIST SP 800-53 R4 SA-1

NIST SP 800-53 R4 SC-1

NIST SP 800-53 R4 SI-1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework ID-1

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The organization shall develop and disseminate a formal, documented, system and services acquisition policy that includes IRS documents received and identified by:

1. taxpayer name
2. tax year(s)
3. type of information (e.g., revenue agent reports, Form 1040, work papers)
4. the reason for the request
5. date requested
6. date received
7. exact location of the FTI
8. who has had access to the data, and
9. if disposed of, the date and method of disposition.

The organization shall describe the purpose or function of a data warehouse in organizational policy.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall ensure policies are documented, communicated (known to

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all parties) and in use for the following:

1. managing firewalls,
2. managing vendor defaults and other security parameters,
3. protecting stored cardholder data,
4. encrypting transmissions of cardholder data,
5. protecting systems against malware,
6. developing and maintaining secure systems and applications,
7. restricting access to cardholder data,
8. identification and authentication,
9. restricting physical access to cardholder data,
10. monitoring access to network resources and cardholder data, and
11. security monitoring and testing.

**Control Reference: 04.b Review of the Information Security Policy**

|  |  |
| --- | --- |
| **Control Specification:** | The information security policy documents shall be reviewed at planned intervals |
|  |
|  | or if significant changes occur to ensure its continuing adequacy and |
|  | effectiveness. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; IT Organization and |
|  | Management Roles and Responsibilities; Policies and Procedures |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |
| **Level 1 Implementation:** | The information security policy documents shall be reviewed at planned intervals |
|  |
|  | or if significant changes occur to ensure the policies' continuing adequacy and |
|  | effectiveness. |
|  | Additional factors when developing or changing a security policy document shall |
|  | include, but are not limited to, regulatory mandates, accreditation requirements, |
|  | and industry best practices, e.g., for system and services development and |
|  | acquisition. A process shall be defined and implemented for individuals to make |
|  | complaints concerning the information security policies and procedures or the |
|  | organization's compliance with the policies and procedures. All complaints and |
|  | requests for changes shall be documented, including their disposition, if any. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  |  |

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|  |  |
| --- | --- |
| **Mapping:** | AICPA CC3.1 |
|  | AICPA CC3.2 |
|  | CMSRs 2013v2 AC-1 |
|  | CMSRs 2013v2 AR-2 |
|  | CMSRs 2013v2 AT-1 |
|  | CMSRs 2013v2 AU-1 |
|  | CMSRs 2013v2 CA-1 |
|  | CMSRs 2013v2 CM-1 |
|  | CMSRs 2013v2 CP-1 |
|  | CMSRs 2013v2 IA-1 |
|  | CMSRs 2013v2 IP-4 (HIGH) |
|  | CMSRs 2013v2 MA-1 |
|  | CMSRs 2013v2 PE-1 |
|  | CMSRs 2013v2 PL-1 |
|  | CMSRs 2013v2 PM-1 |
|  | CMSRs 2013v2 PS-1 |
|  | CMSRs 2013v2 RA-1 |
|  | CMSRs 2013v2 SA-1 |
|  | CMSRs 2013v2 SC-1 |
|  | CMSRs 2013v2 SI-1 |
|  | CRR V2016 CM:G4.Q1 |
|  | CSA CCM v3.0.1 GRM-09 |
|  | FedRAMP AT-1 |
|  | FedRAMP AU-1 |
|  | FedRAMP CA-1 |
|  | FedRAMP CM-1 |
|  | FedRAMP CP-1 |
|  | FedRAMP IA-1 |
|  | FedRAMP IR-1 |
|  | FedRAMP MA-1 |
|  | FedRAMP MP-1 |
|  | FedRAMP PE-1 |
|  | FedRAMP PL-1 |
|  | FedRAMP PS-1 |
|  | FedRAMP RA-1 |
|  | FedRAMP SA-1 |
|  | FedRAMP SC-1 |
|  | FedRAMP SI-1 |
|  | HIPAA § 164.316(a) |
|  | HIPAA § 164.414(a) |
|  | HIPAA § 164.530(d)(1) |
|  | HIPAA § 164.530(i) |
|  |  |

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IRS Pub 1075 v2014 9.3.1.1

IRS Pub 1075 v2014 9.3.10.1

IRS Pub 1075 v2014 9.3.11.1

IRS Pub 1075 v2014 9.3.12.1

IRS Pub 1075 v2014 9.3.13.1

IRS Pub 1075 v2014 9.3.14.1

IRS Pub 1075 v2014 9.3.15.1

IRS Pub 1075 v2014 9.3.16.1

IRS Pub 1075 v2014 9.3.2.1

IRS Pub 1075 v2014 9.3.3.1

IRS Pub 1075 v2014 9.3.4.1

IRS Pub 1075 v2014 9.3.5.1

IRS Pub 1075 v2014 9.3.6.1

IRS Pub 1075 v2014 9.3.7.1

IRS Pub 1075 v2014 9.3.8.1

IRS Pub 1075 v2014 9.3.9.1

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO/IEC 27002:2005 5.1.2

ISO/IEC 27002:2013 5.1.2

MARS-E v2 AC-1

MARS-E v2 AR-1

MARS-E v2 AR-2

MARS-E v2 AT-1

MARS-E v2 AU-1

MARS-E v2 CA-1

MARS-E v2 CM-1

MARS-E v2 CP-1

MARS-E v2 IA-1

MARS-E v2 IR-1

MARS-E v2 MA-1

MARS-E v2 PE-1

MARS-E v2 PL-1

MARS-E v2 PM-1

MARS-E v2 PS-1

MARS-E v2 RA-1

MARS-E v2 SC-1

MARS-E v2 SI-1

NIST Cybersecurity Framework ID.GV-1

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework ID.GV-4

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AT-1

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NIST SP 800-53 R4 AU-1

NIST SP 800-53 R4 CA-1

NIST SP 800-53 R4 CM-1

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 IA-1

NIST SP 800-53 R4 IP-4

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 MA-1

NIST SP 800-53 R4 PE-1

NIST SP 800-53 R4 PL-1

NIST SP 800-53 R4 PM-1

NIST SP 800-53 R4 PS-1

NIST SP 800-53 R4 RA-1

NIST SP 800-53 R4 SA-1

NIST SP 800-53 R4 SC-1

NIST SP 800-53 R4 SI-1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework ID-1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to CRR V2016 |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The information security policy documents shall be reviewed at planned intervals, |
|  |  | at a minimum every three hundred sixty-five (365) days, or if significant changes |

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occur in the operating or business environment to ensure its continuing adequacy and effectiveness and that the totality of the policy has been addressed at least every three hundred sixty-five (365) days.

The information security policy documents shall have an owner who has approved management responsibility for the development, review, and evaluation of the security policy. The review shall include assessing opportunities for improvement of the organization's information security policy documents and approach to managing information security in response to changes to the organizational environment, business circumstances, legal conditions, or technical environment.

The input to the management review shall include information on:

1. feedback from interested parties;
2. results of independent reviews (see 5.h);
3. status of preventive and corrective actions (see 5.h and 6.g);
4. results of previous management reviews;
5. process performance and information security policy compliance;
6. changes that could affect the organization's approach to managing information security, including changes to the organizational environment, business circumstances, resource availability, contractual, regulatory, and legal conditions, or to the technical environment;
7. trends related to threats and vulnerabilities;
8. reported information security incidents (see 11.a); and
9. recommendations provided by relevant authorities (see 5.f).

The output from the management review shall include any decisions and actions related to:

1. improvement of the organization's approach to managing information security and its processes;
2. improvement of control objectives and controls; and
3. improvement in the allocation of resources and/or responsibilities.

A record of the management review shall be maintained. Management approval for the revised policy documents shall be obtained.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC3.1 |
| **Mapping:** | AICPA CC3.2 |
|  |
|  | CMSRs 2013v2 AC-1 |
|  | CMSRs 2013v2 AT-1 |
|  | CMSRs 2013v2 AU-1 |
|  | CMSRs 2013v2 CA-1 |
|  | CMSRs 2013v2 CM-1 |
|  | CMSRs 2013v2 CP-1 |
|  | CMSRs 2013v2 IA-1 |
|  | CMSRs 2013v2 MA-1 |
|  | CMSRs 2013v2 PE-1 |
|  | CMSRs 2013v2 PL-1 |

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CMSRs 2013v2 PM-1

CMSRs 2013v2 PS-1

CMSRs 2013v2 RA-1

CMSRs 2013v2 SA-1

CMSRs 2013v2 SC-1

CMSRs 2013v2 SI-1

CRR V2016 CM:G3.Q2

CRR V2016 CM:G4.Q2

FedRAMP AT-1

FedRAMP AU-1

FedRAMP CA-1

FedRAMP CM-1

FedRAMP CP-1

FedRAMP IA-1

FedRAMP IR-1

FedRAMP MA-1

FedRAMP MP-1

FedRAMP PE-1

FedRAMP PL-1

FedRAMP PS-1

FedRAMP RA-1

FedRAMP SA-1

FedRAMP SC-1

FedRAMP SI-1

FFIEC IS v2016 A.4.5

FFIEC IS v2016 A.6.2

HIPAA § 164.308(a)(8)

HIPAA § 164.316(a)

HIPAA § 164.414(a)

HIPAA § 164.530(i)(2)

HIPAA § 164.530(i)(3)

HIPAA § 164.530(i)(5)

IRS Pub 1075 v2014 9.3.1.1

IRS Pub 1075 v2014 9.3.10.1

IRS Pub 1075 v2014 9.3.11.1

IRS Pub 1075 v2014 9.3.12.1

IRS Pub 1075 v2014 9.3.13.1

IRS Pub 1075 v2014 9.3.14.1

IRS Pub 1075 v2014 9.3.15.1

IRS Pub 1075 v2014 9.3.16.1

IRS Pub 1075 v2014 9.3.17.1

IRS Pub 1075 v2014 9.3.2.1

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IRS Pub 1075 v2014 9.3.3.1

IRS Pub 1075 v2014 9.3.4.1

IRS Pub 1075 v2014 9.3.5.1

IRS Pub 1075 v2014 9.3.6.1

IRS Pub 1075 v2014 9.3.7.1

IRS Pub 1075 v2014 9.3.8.1

IRS Pub 1075 v2014 9.3.9.1

ISO/IEC 27002:2005 5.1.2

ISO/IEC 27002:2013 5.1.2

MARS-E v2 AC-1

MARS-E v2 AT-1

MARS-E v2 AU-1

MARS-E v2 CA-1

MARS-E v2 CM-1

MARS-E v2 CP-1

MARS-E v2 IA-1

MARS-E v2 IR-1

MARS-E v2 MA-1

MARS-E v2 PE-1

MARS-E v2 PL-1

MARS-E v2 PM-1

MARS-E v2 PS-1

MARS-E v2 RA-1

MARS-E v2 SC-1

MARS-E v2 SI-1

NIST Cybersecurity Framework ID.GV-1

NIST Cybersecurity Framework ID.GV-3

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AT-1

NIST SP 800-53 R4 AU-1

NIST SP 800-53 R4 CA-1

NIST SP 800-53 R4 CM-1

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 IA-1

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 MA-1

NIST SP 800-53 R4 PE-1

NIST SP 800-53 R4 PL-1

NIST SP 800-53 R4 PM-1

NIST SP 800-53 R4 PS-1

NIST SP 800-53 R4 RA-1

NIST SP 800-53 R4 SA-1

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|  |  |
| --- | --- |
|  | NIST SP 800-53 R4 SC-1 |
|  | NIST SP 800-53 R4 SI-1 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 12.1.1 |
|  |  |
| **Level 3 Implementation Requirements** | |
|  |  |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to EHNAC Accreditation |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The review shall address the following: |
|  | 1. the changing nature of the organization's operations and thus risk profile |
|  | and risk management needs; |
|  | 2. the changes made to the IT infrastructure of the organization, with the |
|  | changes these bring to the organization's risk profile; |
|  | 3. the changes identified in the external environment that similarly impact |
|  | the organizations risk profile; |
|  | 4. the latest controls, compliance and assurance requirements and |
|  | arrangements of national bodies and of new legislation or regulation; |
|  | 5. the latest guidance and recommendations from professional associations |
|  | and from information privacy commissioners regarding the protection of |
|  | covered information; |
|  | 6. the results of legal cases tested in courts, that thereby establish or cancel |
|  | precedents and established practices; and |
|  | 7. the challenges and issues regarding the policy, as expressed to the |
|  | organization by its staff, customers, and their partners and care givers, |
|  | researchers, and governments, e.g., privacy commissioners. |
|  |  |
| **Level 3** | HIPAA § 164.308(a)(8) |
| **Control Standard** | HIPAA § 164.316(a) |
| **Mapping:** | HIPAA § 164.414(a) |
|  |
|  | HIPAA § 164.530(i)(2) |
|  | HIPAA § 164.530(i)(3) |
|  | HIPAA § 164.530(i)(5) |
|  |  |

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ISO 27799-2008 7.2.2

ISO/IEC 27002:2005 5.1.2

ISO/IEC 27002:2013 5.1.2

NIST Cybersecurity Framework ID.GV-1

NIST Cybersecurity Framework ID.GV-3

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The organization shall periodically review/update a formal, documented, system and services acquisition policy that includes IRS documents received and identified by:

1. taxpayer name
2. tax year(s)
3. type of information (e.g., revenue agent reports, Form 1040, work papers)
4. the reason for the request
5. date requested
6. date received
7. exact location of the FTI
8. who has had access to the data, and
9. if disposed of, the date and method of disposition.

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**Control Category: 05.0 - Organization of Information Security**

**Objective Name: 05.01 Internal Organization**

**Control**

**Objective:** To maintain the security of the organization's information and information assets (data centers or offices that process covered information).

**Control Reference: 05.a Management Commitment to Information Security**

**Control Specification:**

|  |  |
| --- | --- |
|  | Management shall actively support security within the organization through clear |
|  | direction, demonstrated commitment, explicit assignment, and acknowledgment of |
|  | information security responsibilities. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Audit and Accountability; Awareness and Training; IT Organization and |
|  | Management Roles and Responsibilities; Risk Management and Assessments |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to Joint Commission Accreditation |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

The organization's senior management shall:

1. appoint a senior-level information security official for the development, implementation and administration of security matters;
2. establish and communicate the organizations priorities for organizational mission, objectives and activities;
3. ensure that the organization's information security processes are in place, are communicated to all stakeholders, and consider and address organizational requirements;
4. formally assign an organization single point of contact or group to provide program oversight (governance), review and update the organizations security plan (strategy, policies, etc.), ensure compliance with the security

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plan by the workforce, and to evaluate and accept information security risk on behalf of the organization (e.g., CEO, COO, Security Steering Committee, etc.);

1. formulate, review, and approve information security policies and a policy exception process;
2. periodically, at a minimum annually, review and assess the effectiveness of the implementation of the information security policy;
3. provide clear direction and visible management support for security initiatives;
4. provide the resources needed for information security;
5. initiate plans and programs to maintain information security awareness;
6. ensure that all appropriate measures are taken to avoid cases of identity theft targeted at patients, employees and third parties;
7. ensure that the implementation of information security controls is coordinated across the organization; and
8. determine and coordinate, as needed, internal or external information security specialists, and review and coordinate results of the specialists' advice throughout the organization.

The organization shall:

1. ensure that all capital planning and investment requests include the resources needed to implement the information security program and documents all exceptions to this requirement;
2. employ a business case/Exhibit 300/Exhibit 53 to record the resources required; and
3. ensure that information security resources are available for expenditure as planned.

If the senior-level information security official is employed by the covered entity, one of its affiliates, or a third party service, the organization must:

1. retain responsibility for its cybersecurity program in compliance with applicable regulatory requirements;
2. designate a senior member of the organizations personnel responsible for direction and oversight of the third party service provider; and
3. require the third party service to maintain a cybersecurity program that protects the organization and complies with applicable regulatory requirements.

|  |  |  |  |
| --- | --- | --- | --- |
| **Level 1** | 1 | TAC § 390.2(a)(1) | |
| **Control Standard** | 1 | TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 201 CMR 17.03(2)(a) | | |
|  |
|  | 23 | | NYCRR 500.04(a) |
|  | 23 | | NYCRR 500.04(a)(1) |
|  | 23 | | NYCRR 500.04(a)(2) |
|  | 23 | | NYCRR 500.04(a)(3) |
|  | 23 | | NYCRR 500.10(a)(1) |

AICPA CC1.1

AICPA CC1.2

AICPA CC1.3

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AICPA CC2.2

AICPA CC2.3

AICPA CC2.4

CMSRs 2013v2 PM-2 (HIGH)

CMSRs 2013v2 PM-3 (HIGH)

COBIT 4.1 DS5.1

COBIT 5 APO13.01

COBIT 5 APO13.02

CRR V2016 AM:G1.Q4

CRR V2016 AM:MIL2.Q3

CRR V2016 AM:MIL3.Q1

CRR V2016 AM:MIL3.Q3

CRR V2016 AM:MIL4.Q3

CRR V2016 CCM:MIL2.Q3

CRR V2016 CCM:MIL3.Q1

CRR V2016 CCM:MIL3.Q3

CRR V2016 CCM:MIL4.Q3

CRR V2016 CM:MIL2.Q3

CRR V2016 CM:MIL3.Q1

CRR V2016 CM:MIL3.Q3

CRR V2016 CM:MIL4.Q3

CRR V2016 EDM:MIL2.Q3

CRR V2016 EDM:MIL3.Q1

CRR V2016 EDM:MIL3.Q3

CRR V2016 EDM:MIL4.Q3

CRR V2016 IM:MIL4.Q3

CRR V2016 RM:MIL2.Q3

CRR V2016 RM:MIL3.Q1

CRR V2016 RM:MIL3.Q3

CRR V2016 RM:MIL4.Q3

CRR V2016 SA:G1.Q3

CRR V2016 SA:MIL2.Q3

CRR V2016 SA:MIL3.Q1

CRR V2016 SA:MIL3.Q3

CRR V2016 SA:MIL4.Q3

CRR V2016 SCM:MIL2.Q3

CRR V2016 SCM:MIL3.Q1

CRR V2016 SCM:MIL3.Q3

CRR V2016 SCM:MIL4.Q3

CRR V2016 TA:G2.Q6

CRR V2016 TA:MIL2.Q3

CRR V2016 TA:MIL3.Q1

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CRR V2016 TA:MIL4.Q3

CRR V2016 VM:MIL2.Q3

CRR V2016 VM:MIL3.Q1

CRR V2016 VM:MIL3.Q3

CRR V2016 VM:MIL4.Q3

CSA CCM v3.0.1 GRM-05

De-ID Framework v1 Accountable Individuals: General

De-ID Framework v1 Security Points of Contact: General

FFIEC IS v2016 A.1.5

FFIEC IS v2016 A.2.10

FFIEC IS v2016 A.2.2

FFIEC IS v2016 A.2.3

FFIEC IS v2016 A.2.6

FFIEC IS v2016 A.2.9

FFIEC IS v2016 A.6.4(b)

HIPAA § 164.308(a)(1)(i)

HIPAA § 164.308(a)(2)

HIPAA § 164.316(a)

IRS Pub 1075 v2014 9.3.18.1

ISO/IEC 27002:2005 6.1.1

ISO/IEC 27002:2013 5.1.1

JCAHO IM.02.01.03, EP 5

MARS-E v2 PM-2

MARS-E v2 PM-3

NIST Cybersecurity Framework ID.BE-3

NIST Cybersecurity Framework ID.GV-1

NIST Cybersecurity Framework ID.GV-2

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework ID.RM-1

NIST Cybersecurity Framework PR.AT-4

NIST SP 800-53 R4 PM-2

NIST SP 800-53 R4 PM-3

NRS 603A.215.1

PCI DSS v3.2 12.5

PCI DSS v3.2 12.5.1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework DE-5

PMI DSP Framework ID-1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |

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|  |  |  |
| --- | --- | --- |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to Banking Requirements |
|  |  | Subject to CRR V2016 |
|  |  | Subject to FTC Red Flags Rule |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization's senior management shall: |
|  |  | 1. ensure that organization's information security strategy and goals are |
|  |  | identified and considered, and address organizational and healthcare- |
|  |  | specific requirements, and verify that appropriate processes are in place |
|  |  | to meet the organization's strategy and goals; |
|  |  | 2. formally review and approve in writing the establishment and |
|  |  | administration of any information privacy, security and risk management |
|  |  | programs; |
|  |  | 3. formally approve in writing the assignment of specific roles and |
|  |  | responsibilities for information security across the organization; |
|  |  | 4. ensure the senior security official can demonstrate professional |
|  |  | competency in security matters via a recognized security industry |
|  |  | certification, appropriate vendor certifications or a minimum of five (5) |
|  |  | years of security-related experience; |
|  |  | 5. document its risk acceptance process; and |
|  |  | 6. conduct an annual review (may be performed by a third party) of the |
|  |  | effectiveness of its security program. |
|  |  | The organization shall formally appoint in writing non-professional or professional |
|  |  | security contacts by name in each major organizational area or business unit. |
|  |  | The CISO of the covered entity must report in writing on the organizations |
|  |  | cybersecurity program and material cybersecurity risks at least annually to the |
|  |  | organizations board of directors or equivalent governing body. If no such board of |
|  |  | directors or equivalent governing body exists, reporting must be made to the |
|  |  | individual or committee responsible for the covered entitys cybersecurity program. |
|  |  | The report must include, to the extent applicable but is not limited to, the following: |
|  |  | 1. The confidentiality of nonpublic information and the integrity and security |
|  |  | of the organizations information systems; |
|  |  | 2. The organizations cybersecurity policies and procedures; |

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1. Material cybersecurity risks to the organization;
2. Overall effectiveness of the organizations cybersecurity program; and
3. Material cybersecurity events involving the organization during the time period addressed by the report.

|  |  |  |  |
| --- | --- | --- | --- |
| **Level 2** | 1 | TAC § 390.2(a)(1) | |
| **Control Standard** | 1 | TAC § 390.2(a)(3) | |
| **Mapping:** | 1 | TAC § 390.2(a)(4)(A)(xi) | |
|  |
|  | 16 | | CFR Part §681.1 (e)(1) |
|  | 16 | | CFR Part §681.1 (e)(2) |
|  | 23 | | NYCRR 500.04(b) |
|  | 23 | | NYCRR 500.04(b)(1) |
|  | 23 | | NYCRR 500.04(b)(2) |
|  | 23 | | NYCRR 500.04(b)(3) |
|  | 23 | | NYCRR 500.04(b)(4) |
|  | 23 | | NYCRR 500.04(b)(5) |
|  | 23 NYCRR 500.05 | | |
|  | 23 | | NYCRR 500.10(a)(1) |

CMSRs 2013v2 AR-1 (HIGH)

CMSRs 2013v2 PM-1 (HIGH)

CMSRs 2013v2 PM-13 (HIGH)

CMSRs 2013v2 PM-2 (HIGH)

CMSRs 2013v2 PM-9 (HIGH)

CRR V2016 AM:MIL4.Q1

CRR V2016 AM:MIL4.Q2

CRR V2016 CCM:MIL3.Q2

CRR V2016 CCM:MIL4.Q1

CRR V2016 CCM:MIL4.Q2

CRR V2016 CM:MIL3.Q2

CRR V2016 CM:MIL4.Q1

CRR V2016 CM:MIL4.Q2

CRR V2016 EDM:MIL4.Q1

CRR V2016 EDM:MIL4.Q2

CRR V2016 IM:MIL4.Q2

CRR V2016 RM:MIL3.Q2

CRR V2016 SA:MIL4.Q1

CRR V2016 SA:MIL4.Q2

CRR V2016 SCM:MIL3.Q2

CRR V2016 SCM:MIL4.Q2

CRR V2016 TA:G2.Q6

CRR V2016 TA:MIL4.Q1

CRR V2016 VM:MIL3.Q2

CRR V2016 VM:MIL4.Q1

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CRR V2016 VM:MIL4.Q2

CSA CCM v3.0.1 GRM-04

CSA CCM v3.0.1 GRM-05

CSA CCM v3.0.1 GRM-11

FFIEC IS v2016 A.1.5

FFIEC IS v2016 A.2.2

FFIEC IS v2016 A.2.3

FFIEC IS v2016 A.2.6

FFIEC IS v2016 A.2.9

HIPAA § 164.308(a)(1)(i)

HIPAA § 164.308(a)(8)

HIPAA § 164.316(a)

HITRUST SME

IRS Pub 1075 v2014 9.3.18.1

ISO 27799-2008 5.1

ISO/IEC 27002:2005 6.1.1

MARS-E v2 AR-1

MARS-E v2 PM-1

MARS-E v2 PM-13

MARS-E v2 PM-2

MARS-E v2 PM-9

NIST Cybersecurity Framework ID.BE-2

NIST Cybersecurity Framework ID.BE-3

NIST Cybersecurity Framework ID.GV-1

NIST Cybersecurity Framework ID.GV-2

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework PR.AT-4

NIST Cybersecurity Framework PR.AT-5

NIST SP 800-53 R4 AR-1

NIST SP 800-53 R4 PM-1

NIST SP 800-53 R4 PM-13

NIST SP 800-53 R4 PM-2

NIST SP 800-53 R4 PM-9

NRS 603A.215.1

PCI DSS v3.2 12.5

PCI DSS v3.2 12.5.1

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |

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|  |  |
| --- | --- |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | 1. the organization formally creates a dedicated security management forum |
|  | and publishes the forum's member list and charter. Such responsibilities |
|  | can be handled by a Security Advisory Board, Security Steering |
|  | Committee or by an existing management body, such as the board of |
|  | directors; |
|  | 2. the organization conducts an annual assessment of the effectiveness of |
|  | its security program performed by a qualified outside organization; |
|  | 3. the organization shall publish security guidelines and/or daily operational |
|  | procedures relating to processes that complement, clarify and enforce |
|  | security policies. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-1 |
| **Mapping:** | CMSRs 2013v2 AT-1 |
|  |
|  | CMSRs 2013v2 AU-1 |
|  | CMSRs 2013v2 CA-1 |
|  | CMSRs 2013v2 CA-2 (HIGH) |
|  | CMSRs 2013v2 CA-2(1) (HIGH) |
|  | CMSRs 2013v2 CM-1 |
|  | CMSRs 2013v2 CP-1 |
|  | CMSRs 2013v2 IA-1 |
|  | CMSRs 2013v2 MA-1 |
|  | CMSRs 2013v2 PE-1 |
|  | CMSRs 2013v2 PL-1 |
|  | CMSRs 2013v2 PM-1 |
|  | CMSRs 2013v2 PS-1 |
|  | CMSRs 2013v2 RA-1 |
|  | CMSRs 2013v2 SA-1 |
|  | CMSRs 2013v2 SC-1 |
|  | CMSRs 2013v2 SI-1 |
|  | CSA CCM v3.0.1 GRM-05 |
|  | De-ID Framework v1 Governance: General |
|  | FedRAMP AT-1 |
|  |  |

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FedRAMP AU-1

FedRAMP CA-1

FedRAMP CA-2

FedRAMP CA-2(1)

FedRAMP CM-1

FedRAMP CP-1

FedRAMP IA-1

FedRAMP IR-1

FedRAMP MA-1

FedRAMP PE-1

FedRAMP PL-1

FedRAMP PS-1

FedRAMP RA-1

FedRAMP SA-1

FedRAMP SC-1

FedRAMP SI-1

HIPAA § 164.316(a)

IRS Pub 1075 v2014 9.3.1.1

IRS Pub 1075 v2014 9.3.10.1

IRS Pub 1075 v2014 9.3.11.1

IRS Pub 1075 v2014 9.3.12.1

IRS Pub 1075 v2014 9.3.13.1

IRS Pub 1075 v2014 9.3.14.1

IRS Pub 1075 v2014 9.3.15.1

IRS Pub 1075 v2014 9.3.16.1

IRS Pub 1075 v2014 9.3.17.1

IRS Pub 1075 v2014 9.3.2.1

IRS Pub 1075 v2014 9.3.3.1

IRS Pub 1075 v2014 9.3.4.1

IRS Pub 1075 v2014 9.3.4.2

IRS Pub 1075 v2014 9.3.5.1

IRS Pub 1075 v2014 9.3.6.1

IRS Pub 1075 v2014 9.3.7.1

IRS Pub 1075 v2014 9.3.8.1

IRS Pub 1075 v2014 9.3.9.1

ISO 27799-2008 7.3.2.1

ISO/IEC 27002:2005 6.1.1

ISO/IEC 27002:2005 6.1.8

ISO/IEC 27002:2013 18.2.1

ISO/IEC 27002:2013 5.1.1

MARS-E v2 AC-1

MARS-E v2 AT-1

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MARS-E v2 AU-1

MARS-E v2 CA-1

MARS-E v2 CA-2

MARS-E v2 CA-2(1)

MARS-E v2 CM-1

MARS-E v2 CP-1

MARS-E v2 IA-1

MARS-E v2 IR-1

MARS-E v2 MA-1

MARS-E v2 PE-1

MARS-E v2 PL-1

MARS-E v2 PM-1

MARS-E v2 PS-1

MARS-E v2 RA-1

MARS-E v2 SC-1

MARS-E v2 SI-1

NIST Cybersecurity Framework ID.BE-2

NIST Cybersecurity Framework ID.BE-3

NIST Cybersecurity Framework ID.GV-2

NIST Cybersecurity Framework ID.RM-1

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AT-1

NIST SP 800-53 R4 AU-1

NIST SP 800-53 R4 CA-1

NIST SP 800-53 R4 CA-2

NIST SP 800-53 R4 CA-2(1)

NIST SP 800-53 R4 CM-1

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 IA-1

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 MA-1

NIST SP 800-53 R4 PE-1

NIST SP 800-53 R4 PL-1

NIST SP 800-53 R4 PM-1

NIST SP 800-53 R4 PS-1

NIST SP 800-53 R4 RA-1

NIST SP 800-53 R4 SA-1

NIST SP 800-53 R4 SC-1

NIST SP 800-53 R4 SI-1

PMI DSP Framework ID-3

**Level PCI Implementation Requirements**

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**Level PCI Implementation:**

When being assessed as a service provider the organization's executive management shall establish responsibility for the protection of cardholder data and a PCI DSS compliance program to include: (i) overall accountability for maintaining PCI DSS compliance (ii) Defining a charter for a PCI DSS compliance program and communication to executive management

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Control Reference: 05.b Information Security Coordination** | | |
|  |  |  |  |
|  | **Control Specification:** | Information security activities shall be coordinated by representatives from | |
|  |  |
|  |  | different parts of the organization with relevant roles and job functions. | |
|  |  |  | |
|  | **Factor Type:** | Organizational | |
|  |  |  | |
|  | **Topics:** | Awareness and Training; IT Organization and Management Roles and | |
|  |  | Responsibilities; Personnel; Third Parties and Contractors | |
|  | **Level 1 Implementation Requirements** | | |
|  |  |  | |
|  | **Level 1** | Applicable to all Organizations | |
|  | **Organizational Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** | Subject to Joint Commission Accreditation | |
|  | **Regulatory Factors:** |
|  |  |  |
|  |  |  |  |
|  | **Level 1 Implementation:** | The organization shall: | |
|  |  |
|  |  | 1. | determine information security requirements for the information system in |
|  |  |  | mission/business process planning; |
|  |  | 2. | determine, document and allocate the resources required to protect the |
|  |  |  | information system or information system service as part of its capital |
|  |  |  | planning and investment control process; |
|  |  | 3. | establish a discrete line item for information security in organizational |
|  |  |  | programming and budgeting information; and |
|  |  | 4. | assign authority and accountability to resources for communicating threat |
|  |  |  | information |
|  |  | Information security coordination shall involve the active cooperation and | |
|  |  | collaboration across the entire organization. This activity shall: | |
|  |  | 1. | ensure that security activities across the entire organization are executed |
|  |  |  | in compliance with the information security policy and that deviations are |
|  |  |  | identified and reviewed; |
|  |  | 2. | identify how to handle non-compliance (such as sanctions or disciplinary |
|  |  |  | action); |
|  |  | 3. | assess the adequacy and coordinate the implementation of information |
|  |  |  | security controls; |
|  |  | 4. | effectively promote information security education, training and |
|  |  |  | awareness throughout the organization; |

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1. ensure that threat information has been communicated to identified internal and external stakeholders

If the organization does not use a separate cross-functional group because such a group is not appropriate for the organization's size, the actions described above shall be undertaken by another suitable management body or individual security representative.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC1.1 |
|  |
|  | AICPA CC2.3 |
|  | AICPA CC2.4 |
|  | AICPA CC4.1 |
|  | AICPA CC6.2 |
|  | CMSRs 2013v2 PL-2(3) (HIGH) |
|  | CMSRs 2013v2 PM-1 (HIGH) |
|  | CMSRs 2013v2 PM-3 (HIGH) |
|  | CMSRs 2013v2 SA-2 (HIGH) |
|  | COBIT 4.1 DS5.1 |
|  | COBIT 5 APO13.01 |
|  | COBIT 5 APO13.02 |
|  | CRR V2016 AM:MIL2.Q3 |
|  | CRR V2016 AM:MIL3.Q3 |
|  | CRR V2016 AM:MIL4.Q3 |
|  | CRR V2016 AM:MIL5.Q2 |
|  | CRR V2016 CCM:MIL2.Q3 |
|  | CRR V2016 CCM:MIL3.Q3 |
|  | CRR V2016 CCM:MIL4.Q3 |
|  | CRR V2016 CCM:MIL5.Q2 |
|  | CRR V2016 CM:G2.Q1 |
|  | CRR V2016 CM:MIL2.Q3 |
|  | CRR V2016 CM:MIL2.Q4 |
|  | CRR V2016 CM:MIL3.Q3 |
|  | CRR V2016 CM:MIL4.Q3 |
|  | CRR V2016 EDM:MIL2.Q3 |
|  | CRR V2016 EDM:MIL3.Q3 |
|  | CRR V2016 EDM:MIL5.Q2 |
|  | CRR V2016 IM:MIL3.Q3 |
|  | CRR V2016 IM:MIL5.Q2 |
|  | CRR V2016 RM:MIL2.Q3 |
|  | CRR V2016 RM:MIL3.Q3 |
|  | CRR V2016 RM:MIL5.Q2 |

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CRR V2016 SA:G1.Q3

CRR V2016 SA:G2.Q1

CRR V2016 SA:G2.Q2

CRR V2016 SA:G3.Q1

CRR V2016 SA:G3.Q2

CRR V2016 SA:MIL2.Q3

CRR V2016 SA:MIL3.Q3

CRR V2016 SA:MIL5.Q2

CRR V2016 SCM:MIL2.Q3

CRR V2016 SCM:MIL3.Q3

CRR V2016 SCM:MIL5.Q2

CRR V2016 TA:MIL2.Q2

CRR V2016 TA:MIL2.Q3

CRR V2016 TA:MIL3.Q3

CRR V2016 TA:MIL5.Q2

CRR V2016 VM:MIL2.Q3

CRR V2016 VM:MIL3.Q3

CRR V2016 VM:MIL5.Q2

FedRAMP PL-2(3)

FedRAMP SA-2

FFIEC IS v2016 A.1.5

FFIEC IS v2016 A.3.1

FFIEC IS v2016 A.8.1(n)

FFIEC IS v2016 A.8.1(n)

HIPAA § 164.308(a)(1)(ii)(B)

HIPAA § 164.310(a)(2)(ii)

HIPAA § 164.316(a)

HIPAA § 164.316(b)(1)

HIPAA § 164.316(b)(2)(iii)

IRS Pub 1075 v2014 9.3.15.2

ISO/IEC 27002:2005 6.1.2

JCAHO IM.02.01.03, EP 8

MARS-E v2 PL-2(3)

MARS-E v2 PM-1

MARS-E v2 PM-3

MARS-E v2 SA-2

NIST Cybersecurity Framework ID.BE-3

NIST Cybersecurity Framework ID.GV-2

NIST SP 800-53 R4 Pl-2(3)

NIST SP 800-53 R4 PM-1

NIST SP 800-53 R4 PM-3

NIST SP 800-53 R4 SA-2

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**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Information security coordination shall involve the active cooperation and |
|  |  | collaboration across the entire organization to include managers, users, |
|  |  | administrators, application designers, auditors and security personnel. |
|  |  | Information security coordination shall also include specialist skills in areas such |
|  |  | as insurance, legal issues, human resources, privacy, IT or risk management. |
|  |  | This activity shall: |
|  |  | 1. address deviations via a risk acceptance process; |
|  |  | 2. approve methodologies and processes for information security |
|  |  | management activities (e.g., risk acceptance, information classification, |
|  |  | security incidents); |
|  |  | 3. identify and promptly report to senior management significant threat |
|  |  | changes and exposure of information and information processing |
|  |  | resources to threats; |
|  |  | 4. evaluate information received from the monitoring and reviewing of |
|  |  | information security incidents to conduct "lessons learned" activities, and |
|  |  | recommend to senior management appropriate actions in response to |
|  |  | identified information security incidents. |
|  |  | 5. create an internal security information sharing mechanism, such as an |
|  |  | email group, periodic conference call or standing meeting; |
|  |  | 6. establish an internal reporting mechanism, such as a telephone hotline or |
|  |  | dedicated email address, to allow security contacts to report information |
|  |  | security incidents or obtain security policy clarifications on a timely basis. |

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|  |  |  |
| --- | --- | --- |
|  | The organization develops a security plan for the information system that: | |
|  | 1. | is consistent with the organization's enterprise architecture; |
|  | 2. | explicitly defines the authorization boundary for the system; |
|  | 3. | describes the operational context of the information system in terms of |
|  |  | missions and business processes; |
|  | 4. | provides the security categorization of the information system including |
|  |  | supporting rationale; |
|  | 5. | describes the operational environment for the information system; |
|  | 6. | describes relationships with, or connections to, other information systems; |
|  | 7. | provides an overview of the security requirements for the system; |
|  | 8. | identifies any relevant overlays, if applicable; |
|  | 9. | describes the security controls, in place or planned, for meeting those |
|  |  | requirements including a rationale for tailoring and supplementation |
|  |  | decisions; and |
|  | 10. | is reviewed and approved by the authorizing official or designated |
|  |  | representative prior to plan implementation. |
|  | The organization shall update the system security plan: | |
|  | 1. | at least every three (3) years; |
|  | 2. | when substantial changes are made to the system; |
|  | 3. | when changes in requirements result in the need to process data of a |
|  |  | higher sensitivity; |
|  | 4. | after the occurrence of a serious security violation which raises questions |
|  |  | about the validity of an earlier security authorization; and |
|  | 5. | prior to expiration of a previous security authorization. |
|  | The organization shall plan and coordinate security-related activities affecting the | |
|  | information system before conducting such activities in order to reduce the impact | |
|  | on other organizational entities. | |
|  | The organization shall: | |
|  | 1. | distribute copies of the information system's security plan to appropriate |
|  |  | individuals and offices (e.g., CCO, CIO, business units); |
|  | 2. | communicate any changes to the security plans to appropriate individuals |
|  |  | and offices; and |
|  | 3. | protect the plan from unauthorized disclosure and modification. |
|  |  | |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | CMSRs 2013v2 PL-2 (HIGH) | |
| **Mapping:** | CMSRs 2013v2 PL-2(3) (HIGH) | |
|  |
|  | CMSRs 2013v2 PM-1 (HIGH) | |
|  | CRR V2016 AM:MIL2.Q3 | |
|  | CRR V2016 AM:MIL5.Q2 | |
|  | CRR V2016 CCM:MIL2.Q3 | |
|  | CRR V2016 CCM:MIL5.Q2 | |
|  | CRR V2016 CM:MIL2.Q3 | |
|  | CRR V2016 CM:MIL5.Q2 | |
|  | CRR V2016 EDM:MIL2.Q3 | |
|  |  |  |

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CRR V2016 EDM:MIL4.Q3

CRR V2016 EDM:MIL5.Q2

CRR V2016 IM:MIL4.Q3

CRR V2016 IM:MIL5.Q2

CRR V2016 RM:MIL2.Q3

CRR V2016 RM:MIL4.Q3

CRR V2016 RM:MIL5.Q2

CRR V2016 SA:MIL2.Q3

CRR V2016 SA:MIL4.Q3

CRR V2016 SA:MIL5.Q2

CRR V2016 SCM:MIL2.Q3

CRR V2016 SCM:MIL4.Q3

CRR V2016 SCM:MIL5.Q2

CRR V2016 TA:MIL2.Q3

CRR V2016 TA:MIL4.Q3

CRR V2016 TA:MIL5.Q2

CRR V2016 VM:MIL2.Q3

CRR V2016 VM:MIL4.Q3

CRR V2016 VM:MIL5.Q2

FedRAMP PL-2

FedRAMP PL-2

FedRAMP PL-2(3)

FFIEC IS v2016 A.1.5

FFIEC IS v2016 A.3.1

HIPAA § 164.308(a)(1)(ii)(B)

HIPAA § 164.308(a)(8)

HIPAA § 164.316(b)(1)

HIPAA § 164.316(b)(2)(iii)

IRS Pub 1075 v2014 7.4

IRS Pub 1075 v2014 9.3.12.2

IRS Pub 1075 v2014 9.4.1

IRS Pub 1075 v2014 9.4.14

ISO/IEC 27002:2005 6.1.2

MARS-E v2 PL-2

MARS-E v2 PL-2(3)

MARS-E v2 PM-1

NIST Cybersecurity Framework DE.DP-4

NIST Cybersecurity Framework ID.GV-2

NIST SP 800-53 R4 IR-4

NIST SP 800-53 R4 PL-2

NIST SP 800-53 R4 PL-2(3)

NIST SP 800-53 R4 PM-1

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NRS 603A.215.1

PCI DSS v3.2 12.5.2

PMI DSP Framework RC-3

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall convene an internal meeting for the organization's security |
|  | single point of contact and the organizational area/business unit security contacts |
|  | (see 05.a) on a monthly or near to monthly basis. |
|  |  |
| **Level 3** | ISO 27799-2008 7.3.2.1 |
| **Control Standard** | NIST Cybersecurity Framework ID.GV-2 |
| **Mapping:** | NIST Cybersecurity Framework PR.IP-8 |
|  |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall establish a discrete line item in CMS' programming and budgeting documentation for the implementation and management of information systems security.

The organization shall develop a security plan for the information system that is consistent with the CMS System Security Plan (SSP) Procedure.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** Security plans are reviewed at least annually, when changes are made to the information system or information protection requirements, or when incidents

occur that impact the plans' validity.

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**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The organization shall develop and submit to designated agency officials and the Office of Safeguards a Safeguard Procedures Report (SPR) that describes the procedures established and used by the organization for ensuring the confidentiality of the information received from the IRS. Annually thereafter, the organization must file a Safeguard Activity Report (SAR). Whenever significant changes occur in the safeguard program the SPR will be updated and resubmitted to designated agency officials and the Office of Safeguards.

It also advises the IRS of future actions that will affect the organization's current efforts to ensure the confidentiality of FTI, and certifies that the organization is protecting FTI pursuant to IRC Section 6103(p)(4) and the organization's own security requirements.

Agencies must notify the IRS prior to executing any agreement to disclose FTI to a contractor (e.g., cloud computing providers, consolidated data centers, off-site storage facilities, shred companies, information technology support, or tax modeling or revenue forecasting providers), or at least forty-five (45) days prior to the disclosure of FTI, to ensure that appropriate contractual language is included, and that contractors are held to safeguarding requirements. Further, any contractors authorized access to or possession of FTI must notify and secure the approval of the IRS prior to making any redisclosures to subcontractors. (See IRS Pub 1075 v2014 Exhibit 6.)

**Control Reference: 05.c Allocation of Information Security Responsibilities**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | All information security responsibilities shall be clearly defined. |
|  |  |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; IT Organization and Management Roles and Responsibilities; |
|  |  | Media and Assets |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to HITRUST De-ID Framework Requirements |
|  | **Regulatory Factors:** | Subject to PCI Compliance |
|  |  | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | The organization's senior-level information security official shall coordinate, |
|  |  |
|  |  | develop, implement, and maintain an organization-wide information security |
|  |  | program. |
|  |  | The organization shall formally assign the following specific information security |

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|  |  |
| --- | --- |
|  | responsibilities to an individual or team: |
|  | • establishment, documentation and distribution of security policies and |
|  | procedures; |
|  | • monitoring and analyzing security alerts and information, and distributing |
|  | security alerts, information and analysis to appropriate personnel; |
|  | • establishment, documentation and distribution of security incident |
|  | response and escalation procedures to ensure timely and effective |
|  | handling of all situations; |
|  | • administering user accounts, including additions, deletions and |
|  | modifications; and |
|  | • monitoring and controlling all access to data. |
|  | Information security roles & responsibilities shall be coordinated and aligned with |
|  | internal roles and external partners. |
|  | The organization shall clearly assign responsibilities to identify all IT assets that |
|  | need protection and apply controls to meet security policy. The allocation of |
|  | information security responsibilities shall be done in accordance with the |
|  | information security policy. Responsibilities for the protection of individual assets |
|  | and for carrying out specific security processes shall be clearly identified. |
|  | This responsibility shall be supplemented, where necessary, with more detailed |
|  | guidance for specific assets and facilities. Individuals with allocated security |
|  | responsibilities may delegate security tasks to others. Nevertheless, they remain |
|  | accountable and are expected to determine that any delegated tasks have been |
|  | correctly performed. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 23 NYCRR 500.04(a) |
| **Mapping:** | AICPA CC1.1 |
|  |
|  | AICPA CC1.2 |
|  | AICPA CC2.3 |
|  | CMSRs 2013v2 PM-10 (HIGH) |
|  | CMSRs 2013v2 PM-2 (HIGH) |
|  | COBIT 4.1 DS5.1 |
|  | COBIT 5 APO13.01 |
|  | COBIT 5 APO13.02 |
|  | CRR V2016 SA:G1.Q1 |
|  | CRR V2016 SA:MIL2.Q2 |
|  | CSA CCM v3.0.1 GRM-04 |
|  | CSA CCM v3.0.1 HRS-07 |
|  | De-ID Framework v1 Accountable Individuals: General |
|  | FFIEC IS v2016 A.1.5 |
|  | FFIEC IS v2016 A.2.7 |
|  | FFIEC IS v2016 A.2.9 |
|  | HIPAA § 164.308(a)(2) |
|  | IRS Pub 1075 v2014 9.3.18.1 |
|  |  |

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ISO 27799-2008 7.3.2.1

ISO/IEC 27002:2005 6.1.3

ISO/IEC 27002:2013 6.1.1

ISO/IEC 27013:2013 6.1.1

MARS-E v2 PM-10

MARS-E v2 PM-2

NIST Cybersecurity Framework ID.GV-1

NIST Cybersecurity Framework ID.GV-2

NIST SP 800-53 R4 PM-10

NIST SP 800-53 R4 PM-2

NRS 603A.215.1

PCI DSS v3.2 12.4.1

PCI DSS v3.2 12.5

PCI DSS v3.2 12.5.1

PCI DSS v3.2 12.5.2

PCI DSS v3.2 12.5.3

PCI DSS v3.2 12.5.4

PCI DSS v3.2 12.5.5

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to FTC Red Flags Rule |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall identify by name or position non-professional or |

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|  |  |
| --- | --- |
|  | professional security contacts in each major organizational area or business unit. |
|  | The organization shall clearly define the roles, responsibilities and authority of |
|  | each security contact including the administration and implementation of the |
|  | organization's security programs. Each security contact shall annually document |
|  | compliance related to identified legal requirements (see CSF 06.a) and report to |
|  | the organization's single point of contact for security. |
|  | The reports shall include: |
|  | 1. evaluations on the effectiveness of the policies and procedures |
|  | implemented in addressing risk; |
|  | 2. evaluations of service provider arrangements (see CSF 09.e, 09.f, 09.g); |
|  | 3. significant incidents and the response; and |
|  | 4. recommendations for material changes to the security programs for which |
|  | they are responsible. |
|  | The organization's single point of contact for security matters shall provide |
|  | supplemental security awareness and training. The contact for security shall be |
|  | responsible for review reports related to the security organization, network, |
|  | systems and programs implemented. Any material changes to these items shall |
|  | be formally approved by the contact for security prior to implementation. |
|  | Local responsibilities for the protection of assets and for carrying out specific |
|  | security processes, such as business continuity planning, shall be clearly defined. |
|  | Additionally, the following shall take place: |
|  | 1. the assets and security processes associated with each particular system |
|  | shall be identified and clearly defined; |
|  | 2. the entity responsible (owner) for each asset or security process shall be |
|  | assigned and the details of this responsibility shall be documented (see |
|  | 07.b); |
|  | 3. authorization levels shall be clearly defined and documented; and |
|  | 4. to be able to fulfil responsibilities in the information security area, the |
|  | appointed individuals should be competent in the area and be given |
|  | opportunities to keep up to date with developments. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(3) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 16 CFR Part §681 Appendix A VI(a) |
|  |
|  | 16 CFR Part §681 Appendix A VI(b) |
|  | CMSRs 2013v2 AT-3 (HIGH) |
|  | CMSRs 2013v2 IR-2 (HIGH) |
|  | CMSRs 2013v2 PM-10 (HIGH) |
|  | CSA CCM v3.0.1 HRS-07 |
|  | FedRAMP AT-3 |
|  | FFIEC IS v2016 A.1.5 |
|  | FFIEC IS v2016 A.2.7 |
|  | FFIEC IS v2016 A.2.9 |
|  | HIPAA § 164.308(a)(2) |
|  |  |

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HIPAA § 164.308(a)(5)(i)

HITRUST SME

IRS Pub 1075 v2014 9.3.2.3

IRS Pub 1075 v2014 9.3.8,2

ISO/IEC 27002:2005 6.1.3

ISO/IEC 27002:2013 6.1.3

ISO/IEC 27013:2013 6.1.1

MARS-E v2 AT-3

MARS-E v2 IR-2

MARS-E v2 PM-10

NIST Cybersecurity Framework ID.GV-2

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.AT-2

NIST Cybersecurity Framework PR.AT-4

NIST Cybersecurity Framework PR.AT-5

NIST SP 800-53 R4 AT-3

NIST SP 800-53 R4 IR-2

NIST SP 800-53 R4 PM-10

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall specifically define the roles, responsibilities of each |
|  | security contact in writing. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 SA-3 (HIGH) |
| **Mapping:** | CSA CCM v3.0.1 HRS-07 |
|  |
|  | FedRAMP SA-3 |
|  |  |

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HIPAA § 164.308(a)(2)

IRS Pub 1075 v2014 9.3.15.3

ISO/IEC 27002:2005 6.1.3

ISO/IEC 27002:2013 6.1.1

MARS-E v2 SA-3

NIST Cybersecurity Framework ID.GV-2

NIST Cybersecurity Framework PR.AT-5

NIST SP 800-53 R4 SA-3

**Control Reference: 05.d Authorization Process for Information Assets and Facilities**

**Control Specification:** A management authorization process for new information assets (e.g.

systems and applications) (see Other Information), and facilities (e.g. data centers or offices where covered information is to be processed) shall be defined and implemented.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization; IT Organization and Management Roles and Responsibilities; |
|  | Media and Assets; Physical and Facility Security; Policies and Procedures; |
|  | Requirements (Legal and Contractual) |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

The following shall be required for the authorization process:

1. new information processing assets (internal to the organization or via a service provided by a third party) shall have appropriate user management authorization of their purpose and use, and authorization shall also be obtained from the manager responsible for maintaining the local information system security environment to ensure that all relevant security policies and requirements are met;
2. information assets shall have appropriate security measures commensurate with the type of information it will store, process or transmit;
3. the assets shall comply with all applicable laws, regulations, standards policies and other applicable sections of the HITRUST Common Security Framework;
4. hardware and software shall be checked to ensure that they are compatible with other system components; and
5. necessary controls for the use of personal or privately owned information processing equipment (e.g., laptops, home-computers or hand-held devices) for processing business information, which may introduce new vulnerabilities, shall be identified and implemented.

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**Level 1**

**Control Standard**

**Mapping:**

1 TAC § 390.2(a)(1)

AICPA CC5.5

AICPA CC7.1

AICPA CC7.4

CMSRs 2013v2 PM-10 (HIGH)

CRR V2016 AM:G5.Q1

HIPAA § 164.308(a)(2)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.308(a)(8)

ISO 27799-2008 7.3.2.2

ISO/IEC 27002:2005 6.1.4

MARS-E v2 PM-10

NIST Cybersecurity Framework ID.BE-1

NIST Cybersecurity Framework ID.GV-4

NIST SP 800-53 R4 CA-1

NIST SP 800-53 R4 PM-10

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Management formally authorizes (approves) new information assets and facilities |
|  | for processing (use) before commencing operations and periodically reviews and |
|  | updates authorizations (approvals) at a frequency defined by the organization but |
|  | no less than three (3) years. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CA-6 (HIGH) |
| **Mapping:** | FedRAMP CA-6 |
|  |
|  | HIPAA § 164.308(a)(2) |
|  |  |

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|  |  |
| --- | --- |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.308(a)(8) |
|  | IRS Pub 1075 v2014 9.3.4.5 |
|  | MARS-E v2 CA-6 |
|  | NIST Cybersecurity Framework ID.BE-1 |
|  | NIST Cybersecurity Framework ID.GV-4 |
|  | NIST SP 800-53 R4 CA-6 |
|  |  |
| **Level 3 Implementation Requirements** | |
|  |  |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to CRR V2016 |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | All facilities shall undergo a site security survey, prior to lease or purchase, by the |
|  | organization's security department or a trusted third party, and resolve all security |
|  | shortcomings before any covered information is processed at that location. All |
|  | sites that process covered information shall be reviewed on an annual basis to |
|  | ensure their continued suitability to process covered information. This process |
|  | shall also be invoked if the site undergoes a significant change in mission or |
|  | makes substantive physical changes in its facilities or workforce. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CA-2(HIGH) |
| **Mapping:** | CMSRs 2013v2 RA-3(HIGH) |
|  |
|  | CRR V2016 AM:G7.Q3 |
|  | FedRAMP CA-2 |
|  | FedRAMP RA-3 |
|  | HIPAA § 164.308(a)(8) |
|  | IRS Pub 1075 v2014 9.3.14.2 |
|  | IRS Pub 1075 v2014 9.3.4.2 |
|  | MARS-E v2 CA-2 |
|  | MARS-E v2 RA-3 |
|  |  |

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NIST Cybersecurity Framework ID.BE-1

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework ID.RA-4

NIST SP 800-53 R4 CA-2

NIST SP 800-53 R4 RA-3

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization:

1. Ensures that the authorizing official authorizes the information system for processing before commencing operations; and
2. Updates the security authorization:
   1. Within every three (3) years;
   2. When significant changes are made to the system;
   3. When changes in requirements result in the need to process data of a higher sensitivity;
   4. When changes occur to authorizing legislation or federal requirements;
   5. After the occurrence of a serious security violation which raises questions about the validity of an earlier security authorization; and
   6. Prior to expiration of a previous security authorization.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Owners of FTI shall accredit the security controls used to protect FTI before initiating operations. This shall be done for any infrastructure associated with FTI. The authorization shall occur every three (3) years or whenever there is a significant change to the control structure. A senior agency official shall sign and approve the authorization.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization ensures that the authorizing official authorizes the information system for processing before commencing operations, and a senior organization official signs. The systems Authority to Operate (ATO) and, if the organization maintains a system-to-system connection with CMS through an executed interconnection security agreement (ISA), the CMS-granted Authority to Connect (ATC) is updated (1) within every three (3) years, (2) when significant changes are made to the system, (3) when changes in requirements result in the need to process data of a higher sensitivity, (4) when changes occur to authorizing legislation or federal requirements, (5) after the occurrence of a serious security violation, which raises questions about the validity of an earlier security authorization, and (6) prior to the expiration of a previous security authorization.

**Control Reference: 05.e Confidentiality Agreements**

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|  |  |  |  |
| --- | --- | --- | --- |
|  | **Control Specification:** | Requirements for confidentiality or non-disclosure agreements reflecting the | |
|  |  |
|  |  | organization's needs for the protection of information shall be identified and | |
|  |  | regularly reviewed. | |
|  |  |  | |
|  | **Factor Type:** | Organizational | |
|  |  |  | |
|  | **Topics:** | Documentation and Records; Personnel; Requirements (Legal and Contractual); | |
|  |  | Third Parties and Contractors | |
|  | **Level 1 Implementation Requirements** | | |
|  |  |  | |
|  | **Level 1** | Applicable to all Organizations | |
|  | **Organizational Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **Regulatory Factors:** |  |  |
|  |  |  |  |
|  | **Level 1 Implementation:** | Confidentiality or non-disclosure agreements shall address the requirement to | |
|  |  |
|  |  | protect confidential information using legally enforceable terms. | |
|  |  | Confidentiality or non-disclosure agreements shall include, but are not limited to, | |
|  |  | the following: | |
|  |  | 1. | a definition of the information to be protected (e.g., confidential |
|  |  |  | information); |
|  |  | 2. | expected duration of an agreement, including cases where confidentiality |
|  |  |  | might need to be maintained indefinitely; |
|  |  | 3. | required actions when an agreement is terminated; |
|  |  | 4. | responsibilities and actions of signatories to avoid unauthorized |
|  |  |  | information disclosure (such as 'need to know'); |
|  |  | 5. | disclosures required to be limited to the limited data set (see 07.d) or the |
|  |  |  | minimum necessary to accomplish the intended purpose of such use, |
|  |  |  | disclosure, or request; |
|  |  | 6. | ownership of information, trade secrets and intellectual property, and how |
|  |  |  | this relates to the protection of confidential information; |
|  |  | 7. | the permitted use of confidential information, and rights of the signatory to |
|  |  |  | use information; |
|  |  | 8. | individuals' rights to obtain a copy of the individual's information in an |
|  |  |  | electronic format; |
|  |  | 9. | individuals' rights to have the individual's information transmitted to |
|  |  |  | another entity or person designated by the individual, provided the |
|  |  |  | request is clear, conspicuous, and specific; |
|  |  | 10. | the right to audit and monitor activities that involve confidential |
|  |  |  | information; |
|  |  | 11. | the process for notification and reporting of unauthorized disclosure or |
|  |  |  | confidential information breaches; |
|  |  | 12. | terms for information to be returned or destroyed at agreement cessation; |
|  |  |  | and |
|  |  | 13. | expected actions to be taken (i.e. penalties that are possible) in case of a |
|  |  |  | breach of this agreement. |

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|  |  |  |
| --- | --- | --- |
|  |  | The confidentiality agreement shall be applicable to all personnel accessing |
|  |  | covered information. Confidentiality and non-disclosure agreements shall comply |
|  |  | with all applicable laws and regulations for the jurisdiction to which it applies (see |
|  |  | 6.a). Requirements for confidentiality and non-disclosure agreements shall be |
|  |  | reviewed at least annually and when changes occur that influence these |
|  |  | requirements. |
|  |  |  |
|  | **Level 1** | AICPA C1.4 |
|  | **Control Standard** | AICPA C1.6 |
|  | **Mapping:** | AICPA CC2.2 |
|  |  |
|  |  | AICPA CC5.1 |
|  |  | CSA CCM v3.0.1 HRS-06 |
|  |  | FFIEC IS v2016 A.6.31(d) |
|  |  | FFIEC IS v2016 A.6.8(e) |
|  |  | HIPAA § 164.308(a)(3)(ii)(A) |
|  |  | HIPAA § 164.308(b)(3) |
|  |  | HIPAA § 164.310(b) |
|  |  | ISO 27799-2008 7.3.2.3 |
|  |  | ISO/IEC 27002:2005 6.1.5 |
|  |  | ISO/IEC 27002:2013 13.2.4 |
|  |  | NIST Cybersecurity Framework ID.GV-3 |
|  |  | NIST Cybersecurity Framework PR.DS-5 |
|  |  | NIST Cybersecurity Framework PR.IP-11 |
|  |  | NIST SP 800-53 R4 PS-6 |
|  |  | PMI DSP Framework RS-1 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |

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| --- | --- |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall publish a list of representatives who are authorized to sign |
|  | a non-disclosure agreement on behalf of the organization. This list shall be kept |
|  | up to date to reflect personnel changes and departures. |
|  |  |
| **Level 2** | HITRUST SME |
| **Control Standard** | NIST Cybersecurity Framework ID.GV-3 |
| **Mapping:** | NIST Cybersecurity Framework PR.DS-5 |
|  |
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**Level HIE Implementation Requirements Level HIE Implementation:**

As part of the agreement with the connecting organizations, the HIE shall specify which organization owns the data and any restrictions as part of that ownership such as retention, integrity, and accuracy of data. If the HIE is the owner of the data, all federal and state requirements associated with the patients' information shall be met.

**Control Reference: 05.f Contact with Authorities**

**Control Specification:**

Appropriate contacts with relevant authorities shall be maintained.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Documentation and Records; Incident Response; Policies and Procedures; Third |
|  | Parties and Contractors |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

The organization should define a plan with associated contact information for reporting security incidents to law enforcement if it is suspected that laws may have been broken. The organization shall include key contacts including phone numbers and email addresses as part of its incident management and/or business continuity plan. The organization shall designate a point of contact to review the list at least annually to keep it current.

Organizations under attack from the Internet may need external third parties (e.g., an Internet service provider or telecommunications operator) to take action against the attack source. The appropriate contact information for these third parties shall be documented, and instances when they must be contacted to take

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|  |  |  |
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|  |  | action shall be communicated. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Control Standard** | AICPA CC3.1 |
|  | **Mapping:** | AICPA CC6.2 |
|  |  |
|  |  | CMSRs 2013v2 CP-2 (HIGH) |
|  |  | CMSRs 2013v2 IR-7(2) (HIGH) |
|  |  | CRR V2016 EDM:G5.Q2 |
|  |  | CSA CCM v3.0.1 SEF-01 |
|  |  | FedRAMP CP-2 |
|  |  | FedRAMP IR-7(2) |
|  |  | FFIEC IS v2016 A.8.1(f) |
|  |  | FFIEC IS v2016 A.8.1(g) |
|  |  | HIPAA § 164.308(a)(6)(ii) |
|  |  | IRS Pub 1075 v2014 9.3.6.2 |
|  |  | ISO/IEC 27002:2005 6.1.6 |
|  |  | ISO/IEC 27002:2013 6.1.3 |
|  |  | MARS-E v2 CP-2 |
|  |  | NIST Cybersecurity Framework DE.DP-4 |
|  |  | NIST Cybersecurity Framework RS.CO-2 |
|  |  | NIST Cybersecurity Framework RS.CO-3 |
|  |  | NIST SP 800-53 R4 CP-2 |
|  |  | NIST SP 800-53 R4 IR-4 |
|  |  | NIST SP 800-53 R4 IR-7(2) |
|  |  | PMI DSP Framework RS-1 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  |  |

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|  |  |
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| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Each group within the organization (e.g., information security) shall have |
|  | procedures documented and implemented that specify when, and by whom, |
|  | authorities (e.g., law enforcement, fire department, supervisory authorities) shall |
|  | be contacted, and how identified information security incidents shall be reported in |
|  | a timely manner if it is suspected that laws may have been broken. |
|  | The organization shall include key contacts including phone numbers and email |
|  | addresses as part of its incident management and/or business continuity plan. |
|  | The organization shall designate a point of contact to review the list at least |
|  | quarterly to keep it current. |
|  | The organization shall conduct an exercise at least annually and make contact |
|  | with a majority (at least eighty (80) percent) of the listed contacts. During this |
|  | incident/continuity plan exercise the organization shall document that the contact |
|  | person and information are current. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC3.1 |
| **Mapping:** | CMSRs 2013v2 CP-2 (HIGH) |
|  |
|  | CMSRs 2013v2 CP-4 (HIGH) |
|  | CRR V2016 EDM:G5.Q1 |
|  | CSA CCM v3.0.1 SEF-01 |
|  | FedRAMP CP-2 |
|  | FedRAMP CP-4 |
|  | FedRAMP IR-6 |
|  | FFIEC IS v2016 A.8.1(f) |
|  | IRS Pub 1075 v2014 9.3.6.2 |
|  | IRS Pub 1075 v2014 9.3.6.4 |
|  | ISO 27799-2008 7.3.2.4 |
|  | ISO/IEC 27002:2013 6.1.3 |
|  | ISO/IEC 27002:2013 6.1.6 |
|  | MARS-E v2 CP-2 |
|  | MARS-E v2 CP-4 |
|  | NIST Cybersecurity Framework DE.DP-4 |
|  | NIST Cybersecurity Framework RS.CO-2 |
|  | NIST Cybersecurity Framework RS.CO-3 |
|  | NIST SP 800-53 R4 CP-2 |
|  | NIST SP 800-53 R4 CP-4 |
|  | NIST SP 800-53 R4 IR-6 |
|  |  |

**Control Reference: 05.g Contact with Special Interest Groups**

**Control Specification:**

Appropriate contacts with special interest groups or other specialist security

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|  |  |
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|  | forums and professional associations shall be maintained. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Incident Response; Third Parties and Contractors |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Membership in organization-defined special interest groups or forums/services |
|  |
|  | shall be considered as a means to: |
|  | 1. improve knowledge about best practices and staying up to date with |
|  | relevant security information; |
|  | 2. ensure the understanding of the information security environment is |
|  | current and complete(e.g., threat monitoring/intelligence services); |
|  | 3. receive early warnings of alerts, advisories, and patches pertaining to |
|  | attacks and vulnerabilities; |
|  | 4. gain access to specialist information security advice; |
|  | 5. share and exchange information about new technologies, products, |
|  | threats, or vulnerabilities; |
|  | 6. provide suitable liaison points when dealing with information security |
|  | incidents (see 11.c). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC1.3 |
|  |
|  | AICPA CC6.2 |
|  | CMSRs 2013v2 PM-15 (HIGH) |
|  | CRR V2016 SA:G1.Q2 |
|  | CSA CCM v3.0.1 SEF-01 |
|  | FFIEC IS v2016 A.4.3 |
|  | FFIEC IS v2016 A.4.4 |
|  | HIPAA § 164.308(a)(5)(ii)(A) |
|  | IRS Pub 1075 v2014 9.3.17.5 |
|  | ISO 27799-2008 7.3.2.4 |
|  | ISO/IEC 27002:2005 6.1.7 |
|  | ISO/IEC 27002:2013 6.1.4 |
|  | MARS-E v2 PM-15 |
|  | NIST Cybersecurity Framework ID.RA-2 |
|  | NIST Cybersecurity Framework RS.CO-5 |
|  | NIST SP 800-53 R4 PM-15 |
|  |  |

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|  |  |
| --- | --- |
|  | PMI DSP Framework DE-4 |
| **Level 2 Implementation Requirements** | |
|  |  |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Membership in special interest groups or forums/services shall be required and |
|  | actively maintained. |
|  | The organization shall have a process to quickly identify newly discovered |
|  | security threats and vulnerabilities such as a credible subscription service. The |
|  | organization shall have a process to map new threats and vulnerabilities into its |
|  | security policies, guidelines and daily operational procedures. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PM-15 (HIGH) |
| **Mapping:** | CMSRs 2013v2 SI-5 (HIGH) |
|  |
|  | CMSRs 2013v2 SI-5(1) (HIGH) |
|  | CRR V2016 SA:G1.Q2 |
|  | FFIEC IS v2016 A.4.3 |
|  | FFIEC IS v2016 A.4.4 |
|  | HIPAA § 164.308(a)(5)(ii)(A) |
|  | IRS Pub 1075 v2014 9.3.17.5 |
|  | ISO/IEC 27002:2013 6.1.4 |
|  | ISO/IEC 27002:2015 A.6.1.7 |
|  | MARS-E v2 PM-15 |
|  | MARS-E v2 SI-5 |
|  | NIST Cybersecurity Framework ID.GV-4 |
|  |  |

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NIST Cybersecurity Framework ID.RA-2

NIST Cybersecurity Framework RS.CO-3

NIST Cybersecurity Framework RS.CO-5

NIST SP 800-53 R4 PM-15

NIST SP 800-53 R4 SI-5

NIST SP 800-53 R4 SI-5 (1)

PMI DSP Framework DE-4

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall implement security directives in accordance with established time frames, or notify CMS of the degree of noncompliance.

The organization shall employ automated mechanisms to make security alert and advisory information available throughout the organization as needed.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization receives information system security alerts, advisories, and directives from US-CERT on an ongoing basis. Further the organization generates and disseminates security alerts, advisories and directives to organization-defined personnel with roles in system administration, monitoring, and/or security responsibilities, and implements security directives in accordance with established time frames, or notifies the business owner of the degree of noncompliance.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization disseminates security alerts, advisories and directives to organization-defined personnel with roles in system administration, monitoring, and/or security responsibilities, and implements security directives in accordance with established time frames, or notifies the business owner of the degree of noncompliance.

**Control Reference: 05.h Independent Review of Information Security**

|  |  |
| --- | --- |
| **Control Specification:** | The organization's approach to managing information security and its |
|  |
|  | implementation (control objectives, controls, policies, processes, and procedures |
|  | for information security) shall be reviewed independently at planned intervals, at a |
|  | minimum annually, or when significant changes to the security implementation |
|  | occur. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; IT Organization and |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  |  | Management Roles and Responsibilities |
|  |  |  |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
| **Level 1** |  | Applicable to all Organizations |
| **Organizational Factors:** | | |
|  |  |  |
| **Level 1** |  |  |
| **System Factors:** |  |  |
|  |  |  |
| **Level 1** |  | Subject to FISMA Compliance |
| **Regulatory Factors:** |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

An independent review of the organization's information security management program shall be initiated by management. Such an independent review is necessary to ensure the continuing suitability, adequacy, and effectiveness of the organization's approach to managing information security and privacy.

The review shall:

1. include an assessment of the organization's adherence to its security plan and the tests and methods used should be sufficient to validate the effectiveness of the security plan;
2. include notification requirements to confirm whom to inform within the organization about the timing and nature of the assessment;
3. address the need for changes to the approach to security in light of evolving circumstances, including the policy and control objectives and other opportunities for improvement, including those based on regular vulnerability assessments (e.g., network scans and penetration testing);
4. carefully control information security tests to limit the risks to confidentiality, integrity, and system availability;
5. be carried out by individuals independent of the area under review (e.g., the internal audit function, an independent manager or a third-party organization specializing in such reviews); and
6. be carried out by individuals who have the appropriate skills and experience.

The results of the independent review shall:

1. be recorded and reported to the management who initiated the review; and
2. be maintained for a predetermined period of time as determined by the organization, but not less than three (3) years.

If the independent review identifies that the organization's approach and implementation to managing information security is inadequate or not compliant with the direction for information security stated in the information security policy document (see 4.a), management shall take corrective actions.

|  |  |  |
| --- | --- | --- |
| **Level 1** | 1 | TAC § 390.2(a)(1) |
| **Control Standard** | 1 | TAC § 390.2(a)(4)(A)(xi) |

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|  |  |
| --- | --- |
| **Mapping:** | 201 CMR 17.03(2)(b) |
|  | AICPA CC4.1 |
|  | CMSRs 2013v2 AR-4 (HIGH) |
|  | CMSRs 2013v2 CA-2 (HIGH) |
|  | CMSRs 2013v2 CA-2(1) (HIGH) |
|  | CMSRs 2013v2 CA-7 (HIGH) |
|  | CMSRs 2013v2 CA-7(1) (HIGH) |
|  | COBIT 4.1 DS5.5 |
|  | COBIT 5 DSS05.07 |
|  | CRR V2016 VM:MIL4.Q1 |
|  | CSA CCM v3.0.1 AAC-02 |
|  | De-ID Framework v1 Privacy Reviews/Audits: General |
|  | FedRAMP CA-2 |
|  | FedRAMP CA-2(1) |
|  | FedRAMP CA-2(1) |
|  | FedRAMP CA-7 |
|  | FedRAMP CA-7(1) |
|  | FedRAMP CM-6(1) |
|  | FFIEC IS v2016 A.10.1 |
|  | FFIEC IS v2016 A.10.1 |
|  | FFIEC IS v2016 A.10.3(d) |
|  | FFIEC IS v2016 A.10.5 |
|  | FFIEC IS v2016 A.10.6 |
|  | FFIEC IS v2016 A.2.1(a) |
|  | FFIEC IS v2016 A.2.1(b) |
|  | FFIEC IS v2016 A.2.1(c) |
|  | FFIEC IS v2016 A.2.8 |
|  | FFIEC IS v2016 A.6.8(c) |
|  | FFIEC IS v2016 A.8.1(c) |
|  | FFIEC IS v2016 A.9.1 |
|  | FFIEC IS v2016 A.9.1 |
|  | FFIEC IS v2016 A.9.4 |
|  | HIPAA § 164.308(a)(1)(i) |
|  | HIPAA § 164.308(a)(1)(ii)(D) |
|  | HIPAA § 164.308(a)(8) |
|  | IRS Pub 1075 v2014 9.3.4.2 |
|  | IRS Pub 1075 v2014 9.3.4.6 |
|  | ISO 27799-2008 7.3.2.4 |
|  | ISO/IEC 27002:2005 6.1.8 |
|  | ISO/IEC 27002:2013 18.2.1 |
|  | MARS-E v2 AR-4 |
|  | MARS-E v2 CA-2 |
|  |  |

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MARS-E v2 CA-2(1)

MARS-E v2 CA-7

MARS-E v2 CA-7(1)

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework ID.RM-1

NIST Cybersecurity Framework ID.RM-2

NIST Cybersecurity Framework ID.RM-3

NIST Cybersecurity Framework PR.IP-7

NIST Cybersecurity Framework PR.IP-8

NIST SP 800-53 R4 AR-4

NIST SP 800-53 R4 CA-2

NIST SP 800-53 R4 CA-2(1)

NIST SP 800-53 R4 CA-7

NIST SP 800-53 R4 CA-7(1)

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework ID-3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to HITRUST De-ID Framework Requirements |
|  | Subject to State of Massachusetts Data Protection Act |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The independent review of the information security management program and |
|  | information security controls shall be conducted at least annually or whenever |
|  | there is a material change to the business practices that may implicate the |
|  | security or integrity of records containing personal information. |
|  |  |
| **Level 2** | 201 CMR 17.03(2)(a) |
|  |  |

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**Control Standard Mapping:**

201 CMR 17.03(2)(b)

CMSRs 2013v2 CA-2 (HIGH)

CMSRs 2013v2 CA-2(1) (HIGH)

De-ID Framework v1 Privacy Reviews/Audits: General

FedRAMP CA-2

FFIEC IS v2016 A.10.1

FFIEC IS v2016 A.10.3(d)

FFIEC IS v2016 A.10.6

FFIEC IS v2016 A.2.8

FFIEC IS v2016 A.8.1(c)

FFIEC IS v2016 A.9.4

HIPAA § 164.308(a)(8)

ISO/IEC 27002:2005 6.1.8

ISO/IEC 27002:2013 18.2.1

MARS-E v2 CA-2

MARS-E v2 CA-2(1)

NIST Cybersecurity Framework ID.GV-4

NIST SP 800-53 R4 CA-2

NIST SP 800-53 R4 CA-2(1)

NIST SP 800-53 R4 CA-7

**Objective Name: 05.02 External Parties**

**Control**

**Objective:** To ensure that the security of the organization's information and information assets, are not reduced by the introduction of external party products or services.

**Control Reference: 05.i Identification of Risks Related to External Parties**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | The risks to the organization's information and information assets from business |
|  |  |
|  |  | processes involving external parties shall be identified, and appropriate controls |
|  |  | implemented before granting access. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; Communications and Transmissions; Requirements (Legal and |
|  |  | Contractual); Risk Management and Assessments; Third Parties and Contractors; |
|  |  | User Access |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |

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|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  | |
|  | **Level 1** | Subject to FISMA Compliance | |
|  | **Regulatory Factors:** | Subject to FTC Red Flags Rule | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |  |
|  | **Level 1 Implementation:** | Due diligence, including an evaluation of the information security risks posed by | |
|  |  |
|  |  | external parties, shall be carried out to identify any requirements for specific | |
|  |  | controls where access to sensitive information (e.g., covered information, | |
|  |  | cardholder data) by external parties is required prior to establishing a formal | |
|  |  | relationship with the service provider. | |
|  |  | The identification of risks related to external party access shall take into account | |
|  |  | the following issues: | |
|  |  | 1. | the information asset(s) an external party is required to access; |
|  |  | 2. | the type of access the external party will have to the information and |
|  |  |  | information asset(s), such as: |
|  |  |  | i. physical access (e.g., to offices, computer rooms, filing cabinets); |
|  |  |  | ii. logical access (e.g., to an organization's databases, information |
|  |  |  | systems); |
|  |  |  | iii. network connectivity between the organization's and the external |
|  |  |  | party's network(s) (e.g., permanent connection, remote access); |
|  |  |  | iv. whether the access is taking place on-site or off-site; |
|  |  | 3. | the value and sensitivity of the information involved, and its criticality for |
|  |  |  | business operations; |
|  |  | 4. | the controls necessary to protect information that is not intended to be |
|  |  |  | accessible by external parties; |
|  |  | 5. | the external party personnel involved in handling the organization's |
|  |  |  | information; |
|  |  | 6. | how the organization or personnel authorized to have access can be |
|  |  |  | identified, the authorization verified, and how often this needs to be |
|  |  |  | reconfirmed; |
|  |  | 7. | the different means and controls employed by the external party when |
|  |  |  | storing, processing, communicating, sharing and exchanging information; |
|  |  | 8. | the impact of access not being available to the external party when |
|  |  |  | required, and the external party entering or receiving inaccurate or |
|  |  |  | misleading information; |
|  |  | 9. | practices and procedures to deal with information security incidents and |
|  |  |  | potential damages, and the terms and conditions for the continuation of |
|  |  |  | external party access in the case of an information security incident; |
|  |  | 10. | legal and regulatory requirements and other contractual obligations |
|  |  |  | relevant to the external party that shall be taken into account; |
|  |  | 11. | how the interests of any other stakeholders may be affected by the |
|  |  |  | arrangements. |
|  |  | Access by external parties to the organization's information shall not be provided | |
|  |  | until the appropriate controls have been implemented and, where feasible, a | |
|  |  | contract has been signed defining the terms and conditions for the connection or | |
|  |  | access and the working arrangement. All security requirements resulting from | |

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|  |  |  |
| --- | --- | --- |
|  | work with external parties or internal controls shall be reflected by the agreement | |
|  | with the external party (see 5.i and 5.j). All remote access connections between | |
|  | the organization and all external parties shall be secured via encrypted channels | |
|  | (e.g., VPN). Any covered information shared with an external party shall be | |
|  | encrypted prior to transmission. | |
|  | External parties shall be granted minimum necessary access to the organization's | |
|  | information assets to minimize risks to security. All access granted to external | |
|  | parties shall be limited in duration and revoked when no longer needed. | |
|  | It shall be ensured that the external party is aware of their obligations, and | |
|  | accepts the responsibilities and liabilities involved in accessing, processing, | |
|  | communicating, or managing the organization's information and information | |
|  | assets. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(3) | |
| **Mapping:** | 1 TAC § 390.2(a)(4)(A)(xi) | |
|  |
|  | 16 | CFR Part §681.1 (e)(4) |
|  | 23 | NYCRR 500.11(a)(1) |
|  | 23 | NYCRR 500.11(a)(3) |
|  | 23 | NYCRR 500.11(a)(4) |
|  | 23 | NYCRR 500.11(b)(1) |
|  | 23 | NYCRR 500.11(b)(2) |
|  | 23 | NYCRR 500.11(b)(3) |
|  | 23 | NYCRR 500.11(b)(4) |

AICPA C1.5

AICPA CC2.2

AICPA CC2.3

AICPA CC3.1

AICPA CC6.2

AICPA CC7.1

CMSRs 2013v2 AC-17(2) (HIGH)

CMSRs 2013v2 AC-6 (HIGH)

CMSRs 2013v2 CA-3(HIGH)

CMSRs 2013v2 MA-4 (HIGH)

CMSRs 2013v2 SC-8(1) (HIGH)

CRR V2016 CCM:G1.Q5

CRR V2016 CCM:G2.Q11

CRR V2016 EDM:G1.Q3

CRR V2016 EDM:G2.Q1

CRR V2016 EDM:MIL2.Q1

CRR V2016 EDM:MIL2.Q4

CSA CCM v3.0.1 IAM-07

CSA CCM v3.0.1 STA-05

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FedRAMP AC-17(2)

FedRAMP AC-6

FedRAMP CA-3

FedRAMP MA-4

FFIEC IS v2016 A.3.3

FFIEC IS v2016 A.6.18(c)

FFIEC IS v2016 A.6.23

FFIEC IS v2016 A.6.31(a)

FFIEC IS v2016 A.6.31(b)

FFIEC IS v2016 A.6.31(c)

FFIEC IS v2016 A.6.31(f)

FFIEC IS v2016 A.6.31(g)

FFIEC IS v2016 A.6.7(a)

FFIEC IS v2016 A.6.7(d)

GDPR Article 32(1)(a)

GDPR Article 32(4)

HIPAA § 164.308(a)(1)(ii)(A)

HIPAA § 164.308(a)(1)(ii)(B)

HIPAA § 164.308(b)(1)

HIPAA § 164.308(b)(3)

HIPAA § 164.314(a)(1)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.314(a)(2)(ii)

IRS Pub 1075 v2014 9.3.1.12

IRS Pub 1075 v2014 9.3.1.6

IRS Pub 1075 v2014 9.3.16.6

IRS Pub 1075 v2014 9.3.4.3

IRS Pub 1075 v2014 9.3.9.4

ISO/IEC 27002:2005 6.2.1

ISO/IEC 27002:2005 6.2.3

ISO/IEC 27002:2013 15.1.1

ISO/IEC 27002:2013 15.1.2

ISO/IEC 27002:2013 15.1.3

MARS-E v2 AC-17(2)

MARS-E v2 AC-6

MARS-E v2 CA-3

MARS-E v2 MA-4

MARS-E v2 SC-8(1)

MARS-E v2 SC-9(1)

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework ID.AM-3

NIST Cybersecurity Framework ID.GV-3

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NIST Cybersecurity Framework ID.RM-1

NIST Cybersecurity Framework ID.RM-2

NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework PR.DS-2

NIST SP 800-53 R4 AC-17(2)

NIST SP 800-53 R4 AC-3(8)

NIST SP 800-53 R4 AC-6

NIST SP 800-53 R4 CA-3

NIST SP 800-53 R4 MA-4

NIST SP 800-53 R4 SC-8(1)

NRS 603A.215.1

PCI DSS v3.2 12.8.3

PMI DSP Framework ID-4

PMI DSP Framework PR.DS-4

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to Banking Requirements |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall conduct due diligence of the external party via interviews, |
|  |  | document review, checklists, review certifications (e.g., HITRUST) or other remote |
|  |  | means. The process for conducting external party due diligence shall be |
|  |  | integrated with the execution of a non-disclosure agreement (NDA) (see 05.e). |
|  |  | Organizations shall obtain satisfactory assurances that reasonable information |
|  |  | security exists across their information supply chain by performing an annual |
|  |  | review, which shall include all partners/third-party providers upon which their |
|  |  | information supply chain depends. |
|  |  |  |

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**Level 2**

**Control Standard**

**Mapping:**

23 NYCRR 500.11(a)(3)

23 NYCRR 500.11(b)(4)

CSA CCM v3.0.1 STA-01

CSA CCM v3.0.1 STA-08

FFIEC IS v2016 A.3.3

FFIEC IS v2016 A.6.18(c)

FFIEC IS v2016 A.6.31(b)

FFIEC IS v2016 A.6.31(d)

FFIEC IS v2016 A.6.31(e)

HIPAA § 164.308(b)(1)

HIPAA § 164.314(a)(2)(ii)

ISO 27799-2008 7.3.3.1

NIST Cybersecurity Framework ID.RM-1

NRS 603A.215.1

PCI DSS v3.2 12.8.3

PCI DSS v3.2 2.6

**Level Cloud Service Implementation Requirements**

**Providers**

**Level Cloud Service**

**Providers Implementation:** Providers shall inspect, account for, and work with their cloud supply-chain partners to correct data quality errors and associated risks. Providers shall design

and implement controls to mitigate and contain data security risks through proper separation of duties, role-based access, and least-privilege access for all personnel within their supply chain.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization takes additional actions (e.g., requiring background checks for selected service provider personnel, examining ownership records, employing only providers for which it has had positive experiences, and conducting periodic/unscheduled visits to service provider facilities to ensure that the interests of external service providers for systems processing or storing covered information are consistent with and reflect organizational interests.

**Level FFIEC IS Implementation Requirements**

**Level FFIEC IS Implementation:**

The organization identifies factors that increase the risk from supply chain attacks and respond with the following risk mitigations:

1. Purchases are made only through reputable vendors who demonstrate an ability to control their own supply chains
2. Hardware is reviewed for anomalies
3. Software is reviewed through both automated software testing and code reviews
4. Regularly reviewing the reliability of software and hardware items

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purchased through activity monitoring and evaluations by user groups.

If the organization outsources cloud computing or storage to a third-party service provider, the organization addresses the key elements of outsourced cloud computing implementation and risk management in accordance with the FFIEC ISs Outsourced Cloud Computing statement.

If the organization outsources management of security services to a third-party service provider, the organization addresses the key elements of outsourced security services implementation and risk management in accordance with appendix D of the FFIEC IS's IT Handbook "Outsourcing Technology Services" booklet.

**Control Reference: 05.j Addressing Security When Dealing with Customers**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | All identified security requirements shall be addressed before giving customers |
|  |  |
|  |  | access to the organization's information or assets. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authentication; Incident Response; Requirements (Legal and Contractual); Third |
|  |  | Parties and Contractors; User Access |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | The following security terms shall be addressed prior to giving customers access |
|  |  |
|  |  | to any of the organization's assets: |
|  |  | 1. description of the product or service to be provided; |
|  |  | 2. the right to monitor, and revoke, any activity related to the organization's |
|  |  | assets; and |
|  |  | 3. the respective liabilities of the organization and the customer. |
|  |  | It shall be ensured that the customer is aware of their obligations and rights, and |
|  |  | accepts the responsibilities and liabilities involved in accessing, processing, |
|  |  | communicating, or managing the organization's information and information |
|  |  | assets. Awareness shall be provided through security awareness materials and |

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education on an ongoing basis and should discuss, at a minimum, how data will be used, the protections provided for their data (at a high-level), and any tools available to them to protect their own data.

The organization shall permit an individual to request to restrict the disclosure of the individual's covered information to a business associate for purposes of carrying out payment or healthcare operations, and not for purposes of carrying out treatment.

The organization shall respond to any requests from an individual on the disclosure of the individual's covered information, providing the individual with records (see 06.c) of disclosures of covered information that are made by the organization, and either:

1. records (see 06.c) of disclosures of covered information made by a business associate acting on behalf of the organization; or
2. a list of all business associates acting on behalf of the covered entity, including contact information for such associates (such as mailing address, phone, and email address).

The organization shall ensure that the public has access to information about its security and privacy activities and is able to communicate with its senior privacy official (e.g., Chief Privacy Officer, Chief Data Protection Officer) senior security official (e.g., Chief Information Security Officer, Chief Data Protection Officer).

Information may be provided on the organization's privacy and security program(s) (e.g., see 0.1, 03.a, 04.a, 06.d) at a high level; however, such information should, at a minimum, address the organization's privacy practices as required by statute (see 13.a) and describe the organization's breach notification process (see 11.a), actions individuals should take to protect themselves (see 05.j), and how the public can easily submit information about potential vulnerabilities and bugs (see also 11.a).

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.4 |
|  |
|  | AICPA C1.6 |
|  | AICPA CC2.2 |
|  | AICPA CC2.3 |
|  | AICPA CC2.5 |
|  | AICPA CC2.6 |
|  | AICPA CC6.2 |
|  | AICPA CC7.1 |
|  | CMSRs 2013v2 PL-4 (HIGH) |
|  | CMSRs 2013v2 TR-3 (HIGH) |
|  | CRR V2016 EDM:G1.Q2 |
|  | CRR V2016 EDM:MIL2.Q4 |
|  | CSA CCM v3.0.1 AIS-02 |
|  | De-ID Framework v1 Transparency: General |
|  | FedRAMP PL-4 |

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HIPAA § 164.510

HIPAA § 164.528(a)

IRS Pub 1075 v2014 9.3.12.3

IRS Pub 1075 v2014 9.4.13

IRS Pub 1075 v2014 9.4.16

IRS Pub 1075 v2014 9.4.5

ISO/IEC 27002:2005 6.2.1

ISO/IEC 27002:2005 6.2.2

MARS-E v2 PL-4

MARS-E v2 TR-3

NIST Cybersecurity Framework PR.AT-3

NIST SP 800-53 R4 PL-4

NIST SP 800-53 R4 TR-3

PMI DSP Framework PR.AT-1

**Level 2 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds | |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives | |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions | |
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|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions | |
|  |  | Physician Count: Between 11 and 25 Physicians | |
|  |  | Physician Encounters: Between 60k to 180k Encounters | |
|  |  | Record Count Annual: Between 180k and 725k Records | |
|  |  | Record Total: Between 10 and 60 Million Records | |
|  |  |  |  |
|  | **Level 2** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 2** | Subject to FedRAMP Certification | |
|  | **Regulatory Factors:** |
|  |  |  |
|  |  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |  |
|  |  |  |
|  |  | The following security terms shall be addressed prior to giving customers access | |
|  |  | to any of the organization's assets: | |
|  |  | 1. asset protection, including: | |
|  |  | i. | procedures to protect the organization's assets, including |
|  |  |  | information and software, and management of known |
|  |  |  | vulnerabilities; |
|  |  | ii. procedures to determine whether any compromise of the assets | |
|  |  |  | (e.g., loss or modification of data) has occurred; |
|  |  | iii. | integrity; and |
|  |  | iv. restrictions on copying and disclosing information; | |
|  |  | 2. access control policy, covering: | |
|  |  | i. | permitted access methods, and the control and use of unique |

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|  |  |
| --- | --- |
|  | identifiers such as user IDs and passwords; |
|  | ii. an authorization process for user access and privileges; |
|  | iii. a statement that all access that is not explicitly authorized is |
|  | forbidden; |
|  | iv. a process for revoking access rights or interrupting the connection |
|  | between systems; |
|  | 3. arrangements for reporting, notification, and investigation of information |
|  | inaccuracies (e.g., of personal details), information security incidents and |
|  | security breaches; |
|  | 4. a description of each service to be made available; |
|  | 5. the target level of service and unacceptable levels of service; |
|  | 6. the different reasons, requirements, and benefits for customer access; |
|  | 7. responsibilities with respect to legal matters and how it is ensured that the |
|  | legal requirements are met (e.g., data protection legislation), especially |
|  | taking into account different national legal systems if the agreement |
|  | involves co-operation with customers in other countries (see 06.i); and |
|  | 8. intellectual property rights (IPRs) and copyright assignment (see 06.b) |
|  | and protection of any collaborative work (see 05.e). |
|  | Access by customers to the organization's information shall not be provided until |
|  | the appropriate controls have been implemented and, where feasible, a contract |
|  | has been signed defining the terms and conditions for the connection or access |
|  | and the working arrangement. All security requirements resulting from work with |
|  | external parties or internal controls shall be reflected by the agreement with the |
|  | external party. |
|  | For all system connections that allow customers to access the organization's |
|  | computing assets such as Websites, kiosks and public access terminals, the |
|  | organization shall provide appropriate text or a link to the organization's privacy |
|  | policy for data use and protection as well as the customer's responsibilities when |
|  | accessing the data. The organization shall have a formal mechanism to |
|  | authenticate (see 01.b) the customer's identity prior to granting access to covered |
|  | information. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-8 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CA-3 (HIGH) |
|  |
|  | CMSRs 2013v2 TR-3 (HIGH) |
|  | FedRAMP AC-8 |
|  | FedRAMP CA-3 |
|  | IRS Pub 1075 v2014 9.3.1.8 |
|  | IRS Pub 1075 v2014 9.3.4.3 |
|  | ISO 27799-2008 7.3.3.2 |
|  | ISO/IEC 27002:2005 11.5.2 |
|  | ISO/IEC 27002:2005 6.2.1 |
|  | ISO/IEC 27002:2005 6.2.2 |
|  | ISO/IEC 27002:2013 14.1.2 |
|  | MARS-E v2 AC-8 |
|  | MARS-E v2 CA-3 |
|  |  |

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MARS-E v2 TR-3

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.AT-3

NIST SP 800-53 R4 AC-8

NIST SP 800-53 R4 CA-3

NIST SP 800-53 R4 TR-3

PMI DSP Framework PR.AC-1

PMI DSP Framework RS-1

**Level FFIEC IS Implementation Requirements**

**Level FFIEC IS Implementation:**

The organization provides secure customer access to financial services and develops and maintains policies and procedures to securely offer and ensure the resilience of remote financial services (e.g., using appropriate authentication, layered security controls, and fraud detection monitoring) in accordance with appendix E of the FFIEC IS's IT Handbook "Retail Payment Systems" booklet.

The organization implements a customer awareness and education program that addresses both retail (consumer) and commercial account holders that addresses the following elements:

1. An explanation of protections provided, and not provided, to account holders relative to electronic funds transfers under Regulation E, and a related explanation of the applicability of Regulation E to the types of accounts accessible online.
2. An explanation that while the institution may contact a customer regarding his or her account or suspicious activities related to his or her account, the institution should never ask the customer to provide his or her log-in credentials over the phone or via e-mail.
3. A list of recommended controls and prudent practices that the customer should implement when using the institutions remote financial services.
4. A suggestion that commercial online customers perform a related risk assessment and controls evaluation periodically
5. Recommendations of technical and business controls to commercial customers that can be implemented to mitigate the risks from fraud schemes such as Business Email Compromise.
6. A method to contact the institution if customers notice suspicious account activity

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

To use (1) an Integrated Voice Response (IVR) system that provides FTI over the telephone to a customer or (2) a Web-based system or Website to access FTI, the agency must ensure access to FTI via the IVR system requires a strong identity verification process. The authentication must use a minimum of two (2) pieces of information although more than two are recommended to verify the identity. One of the authentication elements must be a shared secret only known to the parties involved and issued by the agency directly to the customer (but not a case

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number or similar piece of information).

The organization's access control system must be specifically configured to address the complicated nature of the environment to ensure only authorized clients who conform to agency security policy are permitted access to the Virtual Desktop Infrastructure (VDI).

**Control Reference: 05.k Addressing Security in Third Party Agreements**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Agreements with third parties involving accessing, processing, communicating or |
|  |  |
|  |  | managing the organization's information or information assets, or adding products |
|  |  | or services to information assets shall cover all relevant security requirements. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; Awareness and Training; Documentation and Records; IT |
|  |  | Organization and Management Roles and Responsibilities; Policies and |
|  |  | Procedures; Requirements (Legal and Contractual); Third Parties and |
|  |  | Contractors; User Access |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to State of Massachusetts Data Protection Act |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall identify and mandate information security controls to |
|  |  |
|  |  | specifically address supplier access to the organization's information and |
|  |  | information assets. |
|  |  | The organization shall maintain written agreements (contracts) that include an |
|  |  | acknowledgement that the third party (e.g., a service provider) is responsible for |
|  |  | the security of the data the third-party possesses or otherwise stores, processes |
|  |  | or transmits on behalf of the organization, or to the extent that they could impact |
|  |  | the security of the organization's information environment. Agreements shall |
|  |  | include requirements to address the information security risks associated with |
|  |  | information and communications technology services (e.g., cloud computing |
|  |  | services) and product supply chain. |
|  |  |  |

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The agreement shall ensure that there is no misunderstanding between the organization and the third party. Organizations shall satisfy themselves as to the indemnity of the third party.

The following terms shall be implemented for inclusion in the agreement in order to satisfy the identified security requirements (see 05.i):

1. the information security policy;
2. controls to ensure asset protection, including:
   1. procedures to protect organizational assets, including information, software and hardware;
   2. any required physical protection controls and mechanisms;
   3. controls to ensure protection against malicious software (see 9.j);
   4. procedures to determine whether any compromise of the assets (e.g., loss or modification of information, software and hardware) has occurred;
   5. controls to ensure the return or destruction of information and assets at the end of, or at an agreed point in time, during the agreement;
   6. confidentiality, integrity, availability, and any other relevant property of the assets; and
   7. restrictions on copying and disclosing information, and using confidentiality agreements (see 05.b);
3. user and administrator training in methods, procedures, and security;
4. ensuring user awareness for information security responsibilities and issues;
5. provision for the transfer of personnel, where appropriate;
6. responsibilities regarding hardware and software installation and maintenance;
7. a clear reporting structure and agreed reporting formats;
8. a clear and specified process of change management;
9. access control policy, covering:
   1. the different reasons, requirements, and benefits that make the access by the third party necessary;
   2. permitted access methods (e.g. multi-factor authentication), and the control and use of unique identifiers such as user IDs and passwords;
   3. an authorization process for user access and privileges;
   4. a requirement to maintain a list of individuals authorized to use the services being made available, and what their rights and privileges are with respect to such use;
   5. a statement that all access that is not explicitly authorized is forbidden; and
   6. a process for revoking access rights or interrupting the connection between systems;
10. arrangements for reporting, notification (e.g., how, when and to whom), and investigation of information security incidents and security breaches, as well as violations of the requirements in the agreement, stating:
    1. the third party, following the discovery of a breach of unsecured covered information, shall notify the organization of such breach, including the identification of each individual whose unsecured protected health information has been, or is reasonably believed by the business associate to have been, accessed, acquired, or

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disclosed during such breach;

* 1. all notifications shall be made without unreasonable delay and in no case later than sixty (60) calendar days after the discovery of a breach if the BA is an agent of the covered entity, otherwise the timing of the notification should be explicitly addressed in the contract if the BA is not an agent of the covered entity;
  2. evidence shall be maintained demonstrating that all notifications were made without unreasonable delay; and
  3. any other information that may be needed in the notification to individuals, either at the time the notice of the breach is provided, or promptly thereafter as information becomes available.

1. a description of the product or service to be provided, and a description of the information to be made available along with its security classification (see CSF 07.d);
2. the target level of service and unacceptable levels of service;
3. the definition of verifiable performance criteria, their monitoring and reporting;
4. the right to monitor, and revoke, any activity related to the organization's assets;
5. the right to audit responsibilities defined in the agreement, to have those audits carried out by a third party, and to enumerate the statutory rights of auditors;
6. the penalties exacted in the event of any failure in respect of the above;
7. the establishment of an escalation process for problem resolution;
8. service continuity requirements, including measures for availability and reliability, in accordance with an organization's business priorities;
9. the respective liabilities of the parties to the agreement;
10. responsibilities with respect to legal matters and how it is ensured that the legal requirements are met (e.g., data protection legislation) especially taking into account different national legal systems if the agreement involves co-operation with organizations in other countries (see 6.1);
11. intellectual property rights (IPRs) and copyright assignment (see 6. b) and protection of any collaborative work (see 5.e); and
12. conditions for renegotiation/termination of agreements:
    1. a contingency plan shall be in place in case either party wishes to terminate the relation before the end of the agreements;
    2. renegotiation of agreements if the security requirements of the organization change; and
    3. current documentation of asset lists, licenses, agreements or rights relating to them.

The organization shall establish and document personnel security requirements including security roles and responsibilities for third-party providers that are coordinated and aligned with internal security roles and responsibilities and monitor provider compliance.

A screening process shall also be carried out for contractors and third-party users. Where contractors are provided through an organization, the contract with the organization shall clearly specify the organization's responsibilities for screening and the notification procedures they need to follow if screening has not been completed or if the results give cause for doubt or concern. In the same way, the agreement with the third party shall clearly specify all responsibilities and

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|  |  |
| --- | --- |
|  | notification procedures for screening. |
|  | The organization requires third-party providers to notify a designated individual or |
|  | role (e.g., a member of the contracting or supply chain function) of any personnel |
|  | transfers or terminations of third-party personnel who possess organizational |
|  | credentials and/or badges, or who have information system privileges within |
|  | fifteen (15) calendar days. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 201 CMR 17.03(2)(f) |
| **Mapping:** | 23 NYCRR 500.11(a) |
|  |
|  | 23 NYCRR 500.11(a)(1) |
|  | 23 NYCRR 500.11(a)(2) |
|  | 23 NYCRR 500.11(b)(1) |
|  | 23 NYCRR 500.11(b)(2) |
|  | 23 NYCRR 500.11(b)(3) |
|  | AICPA C1.4 |
|  | AICPA C1.6 |
|  | AICPA CC2.2 |
|  | AICPA CC2.3 |
|  | AICPA CC2.5 |
|  | AICPA CC2.6 |
|  | CMSRs 2013v2 PS-7 (HIGH) |
|  | CRR V2016 EDM:G3.Q1 |
|  | CRR V2016 EDM:G3.Q3 |
|  | CRR V2016 EDM:G3.Q4 |
|  | CRR V2016 EDM:MIL2.Q1 |
|  | CSA CCM v3.0.1 STA-03 |
|  | CSA CCM v3.0.1 STA-05 |
|  | De-ID Framework v1 Third-party Assurance: General |
|  | FedRAMP PS-7 |
|  | FFIEC IS v2016 A.3.3 |
|  | FFIEC IS v2016 A.6.31(c) |
|  | FFIEC IS v2016 A.6.31(e) |
|  | FFIEC IS v2016 A.6.31(f) |
|  | FFIEC IS v2016 A.6.31(g) |
|  | GDPR Article 28(1) |
|  | GDPR Article 32(4) |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.308(a)(4)(ii)(B) |
|  | HIPAA § 164.308(b)(1) |
|  | HIPAA § 164.314(a)(1) |
|  | HIPAA § 164.314(a)(2)(i) |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  |  | HIPAA § 164.314(a)(2)(ii) |
|  |  | HIPAA § 164.314(b)(1) |
|  |  | HIPAA § 164.314(b)(2)(i) |
|  |  | HIPAA § 164.314(b)(2)(iii) |
|  |  | HIPAA § 164.314(b)(2)(iv) |
|  |  | HIPAA § 164.404(b) |
|  |  | HIPAA § 164.410(a)(1) |
|  |  | HIPAA § 164.410(a)(2) |
|  |  | HIPAA § 164.410(b) |
|  |  | HIPAA § 164.410(c)(1) |
|  |  | HIPAA § 164.410(c)(2) |
|  |  | HIPAA § 164.414(b) |
|  |  | IRS Pub 1075 v2014 9.3.13.7 |
|  |  | ISO/IEC 27002:2005 6.2.3 |
|  |  | ISO/IEC 27002:2005 8.1.2 |
|  |  | ISO/IEC 27002:2013 15.1.1 |
|  |  | ISO/IEC 27002:2013 15.1.2 |
|  |  | ISO/IEC 27002:2013 15.1.3 |
|  |  | ISO/IEC 27002:2013 7.1.1 |
|  |  | MARS-E v2 PS-7 |
|  |  | NIST Cybersecurity Framework DE.CM-6 |
|  |  | NIST Cybersecurity Framework ID.AM-6 |
|  |  | NIST Cybersecurity Framework ID.GV-2 |
|  |  | NIST Cybersecurity Framework PR.AT-3 |
|  |  | NIST Cybersecurity Framework PR.IP-11 |
|  |  | NIST SP 800-53 R4 CA-7(1) |
|  |  | NIST SP 800-53 R4 PS-7 |
|  |  | NRS 603A.210.2 |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 12.8.2 |
|  |  | PCI DSS v3.2 12.8.5 |
|  |  | PCI DSS v3.2 12.9 |
|  |  | PCI DSS v3.2 2.6 |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  | PMI DSP Framework PR.DS-1 |
|  |  | PMI DSP Framework RS-1 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |

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|  |  |
| --- | --- |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FTC Red Flags Rule |
|  | Subject to IRS Pub 1075 Compliance |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Organizations shall employ formal contracts that, at a minimum, specify: |
|  | 1. the confidential nature and value of the covered information; |
|  | 2. the security measures to be implemented and/or complied with, including |
|  | the organization's information security requirements as well as |
|  | appropriate controls required by applicable federal laws, Executive |
|  | Orders, directives, policies, regulations, standards and guidance; |
|  | 3. limitations to access to these services by third parties; |
|  | 4. the service levels to be achieved in the services provided; |
|  | 5. the format and frequency of reporting to the organization's Information |
|  | Security Management Forum; |
|  | 6. the arrangement for representation of the third party in appropriate |
|  | organization meetings and working groups; |
|  | 7. the arrangements for compliance auditing of the third parties; |
|  | 8. the penalties exacted in the event of any failure in respect of the above; |
|  | and |
|  | 9. the requirement to notify a specified person or office of any personnel |
|  | transfers or terminations of third-party personnel working at organizational |
|  | facilities with organizational credentials, badges, or information system |
|  | privileges within one (1) business day. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 16 CFR Part §681.1 (e)(4) |
| **Mapping:** | CMSRs 2013v2 SA-9 (HIGH) |
|  |
|  | CRR V2016 EDM:G1.Q1 |
|  | FedRAMP SA-9 |
|  | GDPR Article 32(4) |
|  | FFIEC IS v2016 A.3.3 |
|  | FFIEC IS v2016 A.6.31(c) |
|  | FFIEC IS v2016 A.6.31(e) |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  |  |

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HIPAA § 164.308(b)(1)

HIPAA § 164.308(b)(3)

HIPAA § 164.314(a)(1)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.314(a)(2)(ii)

HIPAA § 164.314(b)(2)(i)

HIPAA § 164.314(b)(2)(iii)

IRS Pub 1075 v2014 9.3.15.7

IRS Pub 1075 v2014 9.4.1

ISO 27799-2008 7.3.3.3

ISO/IEC 27002:2005 6.2.3

MARS-E v2 SA-9

NIST Cybersecurity Framework DE.CM-6

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PS-7

NIST SP800-53 R4 SA-9

**Level Cloud Service Implementation Requirements**

**Providers**

**Level Cloud Service**

**Providers Implementation:** Mutually-agreed upon provisions and/or terms shall be established to satisfy customer (tenant) requirements for service-to-service application (API) and

information processing interoperability, and portability for application development and information exchange, usage, and integrity persistence.

Supply chain agreements (e.g., SLAs) between providers and customers (tenants) shall incorporate at least the following mutually-agreed upon provisions and/or terms:

1. Scope of business relationship and services offered (e.g., customer (tenant) data acquisition, exchange and usage, feature sets and functionality, personnel and infrastructure network and systems components for service delivery and support, roles and responsibilities of provider and customer (tenant) and any subcontracted or outsourced business relationships, physical geographical location of hosted services, and any known regulatory compliance considerations);
2. Information security requirements, provider and customer (tenant) primary points of contact for the duration of the business relationship, and references to detailed supporting and relevant business processes and technical measures implemented to effectively enable governance, risk management, assurance and legal, statutory and regulatory compliance obligations by all impacted business relationships;
3. Notification and/or pre-authorization of any changes controlled by the provider with customer (tenant) impacts;
4. Timely notification of a security incident (or confirmed breach) to all customers (tenants) and other business relationships impacted (i.e., up-and down-stream impacted supply chain);

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1. Assessment and independent verification of compliance with agreement provisions and/or terms (e.g., industry-acceptable certification, attestation audit report, or equivalent forms of assurance) without posing an unacceptable business risk of exposure to the organization being assessed;
2. Expiration of the business relationship and treatment of customer (tenant) data impacted; and
3. Customer (tenant) service-to-service application (API) and data interoperability and portability requirements for application development and information exchange, usage, and integrity persistence.

Service agreements (e.g., SLAs) between providers and customers (tenants) across the relevant supply chain (upstream/downstream) are reviewed consistently, and no less than annually, to identify any non-conformance to established agreements. The reviews should result in actions to address service-level conflicts or inconsistencies resulting from disparate supplier relationships.

Third-party service providers shall demonstrate compliance with information security and confidentiality, access control, service definitions, and delivery-level agreements included in third-party contracts. Third-party reports, records, and services shall undergo audit and review at least annually to govern and maintain compliance with the service delivery agreements.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Organizations shall ensure acquisition contracts contain appropriate language from IRS Pub 1075 v2014 Exhibit 7, Safeguarding Contract Language.

Organizations must establish security policies and procedures based on IRS Publication 1075 for how FTI is stored, handled, and accessed inside the cloud through a legally binding contract or Service Level Agreement (SLA) with its third-party Cloud provider.

Additional SLA requirements include but are not limited to:

1. FTI must be encrypted in transit within the cloud environment. All mechanisms used to encrypt FTI must be FIPS 140-2 compliant, and operate using the FIPS 140-2 compliant module.
2. FTI may need to be encrypted while at rest in the Cloud, depending upon the security protocols inherent in the cCoud. If the cloud environment cannot appropriately isolate FTI, encryption is a potential compensating control. All mechanisms used to encrypt FTI must be FIPS 140-2 compliant and operate using the FIPS 140-2 compliant module.
3. Storage devices where FTI has resided must be securely sanitized or destroyed using methods acceptable by NSA and Central Security Service (CSS).

Organization-defined security controls for third-party arrangements (e.g., in cloud service providers) must be identified, documented (e.g., in a legally-binding contract or SLA), and implemented. The defined security controls, as implemented, must comply with the requirements specified in IRS Pub 1075

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v2014.

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

Where two or more data controllers jointly determine the purposes and means of processing, they shall be joint controllers. They shall in a transparent manner determine their respective responsibilities for compliance with the obligations under GDPR, in particular as regards the exercising of the rights of the data subject and their respective duties to provide information regarding access to personal data, whether obtained by the controller from the subject or from another source, by means of an arrangement between them unless, and in so far as, the respective responsibilities of the controllers are determined by EU or Member State law to which the controllers are subject. This arrangement shall duly reflect the respective roles and relationships of the joint controllers vis-à-vis the data subjects, and the essence of the arrangement shall be made available to the data subject. The data controllers involved in the arrangement specifically allows a data subject to exercise the subjects rights under the GDPR in respect of and against each of the controllers.

The processor shall not engage another processor without prior specific or general written authorization of the controller. In the case of general written authorization, the processor shall inform the controller of any intended changes concerning the addition or replacement of other processors, thereby giving the controller the opportunity to object to such changes.

Processing by a processor shall be governed by a written contract or other legal act (instrument) under Union or Member State law, including one in electronic form, that is binding on the processor with regard to the controller and that sets out the subject-matter and duration of the processing, the nature and purpose of the processing, the type of personal data and categories of data subjects and the obligations and rights of the controller. That contract or other legal act (instrument) shall stipulate that the processor:

1. processes the personal data only on documented instructions from the controller, including with regard to transfers of personal data to a third country or an international organization, unless required to do so by Union or Member State law to which the processor is subject; in such a case, the processor shall inform the controller of that legal requirement before processing, unless that law prohibits such information on important grounds of public interest;
2. ensures that persons authorized to process the personal data have committed themselves to confidentiality or are under an appropriate statutory obligation of confidentiality;
3. takes all measures required pursuant by the EU GDPR for the security of processing personal data;
4. respects the conditions referred to in paragraphs 2 and 4 for engaging another processor;
5. taking into account the nature of the processing, assists the controller by appropriate technical and organizational measures, insofar as this is possible, for the fulfilment of the controller's obligation to respond to requests for exercising the data subject's rights laid down in Chapter III;
6. assists the controller in ensuring compliance with the obligations for the

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security of personal data, including the security of processing and data breach notification to the supervisory authority and data subject, data protection impact assessments and prior consultation with a supervisory authority, taking into account the nature of processing and the information available to the processor;

1. at the choice of the controller, deletes or returns all the personal data to the controller after the end of the provision of services relating to processing, and deletes existing copies unless Union or Member State law requires storage of the personal data;
2. makes available to the controller all information necessary to demonstrate compliance with the obligations laid down in the contract or other legal act (instrument) and allow for and contribute to audits, including inspections, conducted by the controller or another auditor mandated by the controller, and immediately inform the controller if, in the processors opinion, an instruction infringes the EU GDPR or other EU or Member State data protection provision.

The processor requires the same data protection obligations in a written contract or other legal act (instrument) under EU or Member State law, including one in electronic form, where it engages another processor for carrying out specific processing activities on behalf of the controller, and in particular provides sufficient guarantees to implement appropriate technical and organizational measures in such a manner that the processing will meet the requirements of the EU GDPR.

The data controller ensures a processor and any person acting under the authority of the controller or of the processor, who has access to personal data, does not process those data except on instructions from the controller, unless required to do so by Union or Member State law.

The controller and processor take steps to ensure that any natural person acting under the authority of the controller or the processor who has access to personal data does not process them except on instructions from the controller, unless he or she is required to do so by Union or Member State law.

**Level HIE Implementation Requirements Level HIE Implementation:**

As part of the agreement with the connecting organizations, the HIE shall specify the requirements of the connecting organization to define and communicate to the HIE access roles for the connecting organization's employees. The agreement shall specify that it is the sole responsibility of the connecting organization to appropriately restrict access in accordance with federal and state requirements (e.g., mental health information). As part of the agreement with the connecting organizations, the HIE shall specify the requirements of connecting organizations to request and receive detailed access logs (see 09.aa) related to the connecting organization's records.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization ensures that service level agreements define expectations of

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performance, describe measurable outcomes, and identify remedies and response requirements for any identified instance of non-compliance.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall identify and document information about which PCI DSS requirements are managed by each service provider, and which are managed by the organization.

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**Control Category: 06.0 - Compliance**

**Objective Name: 06.01 Compliance with Legal Requirements**

**Control**

**Objective:** To ensure that the design, operation, use, and management of information systems adheres to applicable laws, statutory, regulatory or contractual

obligations, and any security requirements.

**Control Reference: 06.a Identification of Applicable Legislation**

|  |  |
| --- | --- |
| **Control Specification:** | All relevant statutory, regulatory, and contractual requirements and the |
|  | organization's approach to meet these requirements shall be explicitly defined, |
|  | documented, and kept up to date for each information system and the |
|  | organization. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Awareness and Training; Documentation and Records; Policies and Procedures; |
|  | Requirements (Legal and Contractual) |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FTC Red Flags Rule |
| **Regulatory Factors:** | Subject to State of Massachusetts Data Protection Act |
|  |  |
| **Level 1 Implementation:** | All relevant statutory, regulatory and contractual requirements shall be explicitly |
|  |
|  | defined and formally documented for each information system type. The specific |
|  | controls and individual responsibilities to meet these requirements shall be |
|  | similarly defined and documented. These controls shall be communicated to the |
|  | user community through the documented security training and awareness |
|  | programs. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(3) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(B)(xviii)(I) |
| **Mapping:** | 16 CFR Part §681 Appendix A VII(a) |
|  |
|  | 16 CFR Part §681 Appendix A VII(b) |
|  | 16 CFR Part §681 Appendix A VII(c) |
|  | 16 CFR Part §681 Appendix A VII(d) |
|  | 201 CMR 17.03(1) |
|  | AICPA CC3.1 |
|  | CSA CCM v3.0.1 AAC-03 |
|  |  |

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FFIEC IS v2016 A.4.5

ISO 27799-2008 7.12.2.1

ISO/IEC 27002:2005 15.1.1

ISO/IEC 27002:2005 8.2.2

ISO/IEC 27002:2013 18.1.1

ISO/IEC 27002:2013 7.2.2

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.AT-3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Join industry trade associations, subscribe to thought leadership and market |
|  | research organizations, or establish some other reliable process to stay abreast of |
|  | business sector, industry, technology, infrastructure, legal and regulatory |
|  | environment trends that may impact your organization security policies. |
|  | Incorporate the consequences of these trends into the development or update of |
|  | the IT policies and procedures. |
|  |  |
| **Level 2** | CMSRs 2013v2 PM-15 (HIGH) |
| **Control Standard** | CSA CCM v3.0.1 AAC-03 |
| **Mapping:** | FFIEC IS v2016 A.4.5 |
|  |
|  | ISO/IEC 27002:2005 15.1.1 |
|  | ISO/IEC 27002:2005 6.1.7 |
|  | ISO/IEC 27002:2013 18.1.1 |
|  | ISO/IEC 27002:2013 A 6.1.4 |
|  | MARS-E v2 PM-15 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework ID.GV-4 |
|  |  |

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NIST Cybersecurity Framework PR.IP-7

NIST Cybersecurity Framework RS.CO-5

NIST SP800-53 R4 PM-15

**Control Reference: 06.b Intellectual Property Rights**

**Control Specification:** Detailed procedures shall be implemented to ensure compliance with legislative, regulatory, and contractual requirements on the use of material in respect of which there may be intellectual property rights, and on the use of proprietary software products.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Documentation and Records; Policies and Procedures; Requirements (Legal and |
|  | Contractual) |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

Procedures shall be developed and implemented to ensure compliance with any legislative, regulatory, or contractual requirements that may place restrictions on the copying of proprietary material including copyrights, design rights, or trademarks.

Specifically, the following controls shall be in place:

|  |  |  |
| --- | --- | --- |
|  | 1. | acquiring software only through known and reputable sources, to ensure |
|  |  | that copyright is not violated; |
|  | 2. | maintaining proof and evidence of ownership of licenses, master disks, |
|  |  | manuals, etc.; |
|  | 3. | implementing controls to ensure that any maximum number of users |
|  |  | permitted is not exceeded; |
|  | 4. | carrying out annual checks that only authorized software and licensed |
|  |  | products are installed; |
|  | 5. | developing and providing a policy for maintaining agreed upon license |
|  |  | conditions; |
|  | 6. | using manual audit tools; |
|  | 7. | complying with terms and conditions for software and information |
|  |  | obtained from public networks; and |
|  | 8. | use of proprietary software must also be in compliance with encryption, |
|  |  | export and local data privacy regulations. |
|  |  | |
| **Level 1** | AICPA CC2.3 | |
| **Control Standard** | AICPA CC7.1 | |
| **Mapping:** | ISO/IEC 27002:2005 15.1.2 | |
|  |
|  | ISO/IEC 27002:2013 18.1.2 | |

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|  |  |  |
| --- | --- | --- |
|  |  | NIST Cybersecurity Framework ID.GV-3 |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The following controls shall be in place: |
|  |  | 1. publishing an intellectual property rights compliance policy which defines |
|  |  | the legal use of software and information products; |
|  |  | 2. maintaining awareness of policies to protect intellectual property rights, |
|  |  | and giving notice of the intent to take disciplinary action against personnel |
|  |  | breaching them; |
|  |  | 3. maintaining appropriate asset registers, and identifying all assets with |
|  |  | requirements to protect intellectual property rights; |
|  |  | 4. developing and providing a policy for disposing software or transferring |
|  |  | software to others; |
|  |  | 5. not duplicating, converting to another format or extracting from |
|  |  | commercial recordings (film, audio) other than permitted by copyright law; |
|  |  | and |
|  |  | 6. not copying, in full or in part, books, articles, reports or other documents, |
|  |  | other than permitted by copyright law. |
|  |  |  |
|  | **Level 2** | ISO 27799-2008 7.12.2.1 |
|  | **Control Standard** | ISO/IEC 27002:2005 15.1.2 |
|  | **Mapping:** | ISO/IEC 27002:2013 18.1.2 |
|  |  |
|  |  | NIST Cybersecurity Framework ID.GV-3 |
|  |  |  |
|  | **Level 3 Implementation Requirements** | |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |

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|  |  |
| --- | --- |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall control and document the use of publicly accessible peer- |
|  | to-peer file sharing technology to ensure that this capability is not used for the |
|  | unauthorized distribution, display, performance, or reproduction of copyrighted |
|  | work. |
|  | Software license tracking can be accomplished by manual methods (e.g., simple |
|  | spreadsheets) or automated methods (e.g., specialized tracking applications) |
|  | depending on organizational needs. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CM-10 (HIGH) |
| **Mapping:** | FedRAMP CM-10 |
|  |
|  | IRS Pub 1075 v2014 9.3.5.10 |
|  | MARS-E v2 CM-10 |
|  | NIST Cybersecurity Framework DE.CM-3 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PR.IP-1 |
|  | NIST SP 800-53 R4 CM-10 |
|  |  |

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization must establish restrictions on the use of open source software, and any open source software used by the organization must:

1. be legally licensed;
2. be authorized; and
3. adhere to the organizations secure configuration policy.

**Level FTI Custodians Implementation Requirements**

|  |  |
| --- | --- |
| **Level FTI Custodians** | The organization must establish restrictions on the use of open source software, |
| **Implementation:** |

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and any open source software used by the organization must:

1. Be legally licensed;

2. Be approved by the agency IT department; and

3. iii. Adhere to a secure configuration baseline checklist from the U.S.

Government or industry.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 06.c Protection of Organizational Records** | |
|  |  |  |
|  | **Control Specification:** | Important records shall be protected from loss, destruction, and falsification, in |
|  |  |
|  |  | accordance with statutory, regulatory, contractual, and business requirements |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Cryptography; Data Loss Prevention; Documentation and Records; Policies and |
|  |  | Procedures; Requirements (Legal and Contractual) |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to Joint Commission Accreditation |
|  | **Regulatory Factors:** | Subject to State of Massachusetts Data Protection Act |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |  |
|  | **Level 1 Implementation:** | Important records, such as contracts, personnel records, financial information, |
|  |  |
|  |  | patient records, etc., of the organization shall be protected from loss, destruction |
|  |  | and falsification. Security controls, such as access controls, encryption, backups, |
|  |  | electronic signatures, locked facilities or containers, etc., shall be implemented to |
|  |  | protect these essential records and information. |
|  |  | Guidelines shall be issued by the organization on the ownership, classification, |
|  |  | retention, storage, handling and disposal of all records and information. |
|  |  | Designated senior management within the organization shall review and approve |
|  |  | the security categorizations and associated guidelines. |
|  |  | All regulatory and legislative retention requirements shall be met. |
|  |  | The organization's formal policies and procedures, other critical records (e.g., |
|  |  | results from a risk assessment) and disclosures of individuals' protected health |
|  |  | information made shall be retained for a minimum of six (6) years. For electronic |
|  |  | health records, the organization must retain records of disclosures to carry out |
|  |  | treatment, payment and health care operations for a minimum of three (3) years. |
|  |  | The covered entity documents compliance with the notice requirements by |
|  |  | retaining copies of the notices issued by the covered entity for a period of six (6) |
|  |  | years and, if applicable, any written acknowledgements of receipt of the notice or |

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|  |  |
| --- | --- |
|  | documentation of good faith efforts to obtain such written acknowledgement. |
|  | The covered entity shall document restrictions in writing and formally maintain |
|  | such writing, or an electronic copy of such writing, as an organizational record for |
|  | a period of six (6) years. |
|  | The covered entity documents and maintains the designated record sets that are |
|  | subject to access by individuals and the titles of the persons or office responsible |
|  | for receiving and processing requests for access by individuals as organizational |
|  | records for a period of six (6) years. |
|  | The covered entity documents and maintains accountings of disclosure as |
|  | organizational records for a period of six (6) years, including the information |
|  | required for disclosure, the written accounting provided to the individual, and the |
|  | titles of the persons or offices responsible for receiving and processing requests |
|  | for an accounting. |
|  | The covered entity ensures, if retained, PHI is safeguarded for a period of fifty |
|  | (50) years following the death of the individual. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(3) |
| **Mapping:** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  |
|  | 201 CMR 17.03(2)(g) |
|  | 21 CFR Part 11.10(c) |
|  | 21 CFR Part 11.30 |
|  | 23 NYCRR 500.13 |
|  | AICPA A1.2 |
|  | AICPA A1.3 |
|  | AICPA C1.2 |
|  | AICPA C1.7 |
|  | AICPA CC5.1 |
|  | CMSRs 2013v2 RA-2 (HIGH) |
|  | CRR V2016 CM:G2.Q3 |
|  | De-ID Framework v1 Retention: Data Retention Policy |
|  | FedRAMP RA-2 |
|  | FFIEC IS v2016 A.6.18(a) |
|  | FFIEC IS v2016 A.6.18(b) |
|  | GDPR Article 32(1)(a) |
|  | HIPAA § 164.414(a) |
|  | HIPAA § 164.502(f) |
|  | HIPAA § 164.520(e) |
|  | HIPAA § 164.522(a)(3) |
|  | HIPAA § 164.524(e) |
|  | HIPAA § 164.528(d) |
|  | HIPAA § 164.530(j) |
|  |  |

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IRS Pub 1075 v2014 4.2

IRS Pub 1075 v2014 9.3.6.7

ISO/IEC 27002:2005 15.1.3

ISO/IEC 27002:2005 7.2.1

ISO/IEC 27002:2013 18.1.3

ISO/IEC 27002:2013 8.2.1

JCAHO IM.02.01.03, EP 6

MARS-E v2 RA-2

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 AU-9

NIST SP800-53 R4 RA-2

NRS 603A.210.1

NRS 603A.210.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to EHNAC Accreditation |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall establish a formal record retention program that addresses: |
|  |  |  |

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|  |  |
| --- | --- |
|  | 1. the secure disposal of data when no longer needed for legal, regulatory, |
|  | or business reasons, including disposal of covered information (see 09.p |
|  | and 08.l); |
|  | 2. coverage over all storage of covered information; and |
|  | 3. a programmatic review process (automatic or manual) to identify and |
|  | remove covered information that exceeds the requirements of the data |
|  | retention policy on a quarterly basis. |
|  | Detailed procedures for record storage, access, retention, and destruction shall |
|  | be implemented. In doing so, the following controls shall be implemented: |
|  | 1. a retention schedule shall be drawn up identifying essential record types |
|  | and the period of time for which they must be retained; |
|  | 2. an inventory of sources of key information shall be maintained; |
|  | 3. any related cryptographic keys shall be kept securely and made available |
|  | only when necessary; and |
|  | 4. any related cryptographic keying material and programs associated with |
|  | encrypted archives or digital signatures shall also be stored to enable |
|  | decryption of the records for the length of time the records are retained. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 21 CFR Part 11.10(c) |
| **Mapping:** | 21 CFR Part 11.30 |
|  |
|  | AICPA C1.7 |
|  | CMSRs 2013v2 AU-11 (HIGH) |
|  | CMSRs 2013v2 DM-2 (HIGH) |
|  | CMSRs 2013v2 DM-2(1) (HIGH) |
|  | CMSRs 2013v2 SI-12 (HIGH) |
|  | CRR V2016 CM:G2.Q3 |
|  | De-ID Framework v1 Retention: Data Retention Policy |
|  | FedRAMP SI-12 |
|  | FFIEC IS v2016 A.6.18(a) |
|  | FFIEC IS v2016 A.6.18(b) |
|  | HIPAA § 164.414(a) |
|  | HIPAA § 164.530(j)(2) |
|  | IRS Pub 1075 v2014 9.3.17.9 |
|  | IRS Pub 1075 v2014 9.3.3.11 |
|  | ISO 27799-2008 7.12.2.1 |
|  | ISO/IEC 27002:2005 15.1.3 |
|  | ISO/IEC 27002:2013 18.1.3 |
|  | MARS-E v2 AU-11 |
|  | MARS-E v2 DM-2 |
|  | MARS-E v2 DM-2(1) |
|  | MARS-E v2 SI-12 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PS.DS-3 |
|  | NIST SP 800-53 R4 AU-11 |
|  |  |

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NIST SP 800-53 R4 DM-2

NIST SP 800-53 R4 DM-2(1)

NIST SP 800-53 R4 SI-12

NRS 603A.215.1

PCI DSS v3.2 3.1

PMI DSP Framework PR.DS-2

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall retain output including, but not limited to audit records, system records, business and financial reports, and business records, from the information system in accordance with CMS Policy and all applicable National Archives and Records Administration (NARA) requirements.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** The organization shall employ a permanent system of standardized records of request for disclosure of FTI and maintain the records for five (5) years, or the

applicable records control schedule, whichever is longer.

To support the audit of FTI activities, all organizations must ensure that audit information is archived for seven (7) years to enable the recreation of computer-related accesses to both the operating system and to the application wherever FTI is stored, support after-the-fact investigations of security incidents, and meet regulatory and agency information retention requirements.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization shall retain output including, but not limited to audit records, system records, business and financial reports, and business records, from the information system for ten (10) years or in accordance Administering Entity organizational requirements, whichever is more restrictive.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall keep cardholder data storage to a minimum by implementing data retention and disposal policies, procedures and processes that include at least the following for all cardholder data (CHD) storage:

1. Limiting data storage amount and retention time to that which is required for legal, regulatory, and business requirements
2. Processes for secure deletion of data when no longer needed
3. Specific retention requirements for cardholder data
4. A quarterly process for identifying and securely deleting stored cardholder data that exceeds defined retention.

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**Control Reference: 06.d Data Protection and Privacy of Covered Information**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Data protection and privacy shall be ensured as required in relevant legislation, |
|  |  |
|  |  | regulations, and contractual clauses. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Data Loss Prevention; IT Organization and |
|  |  | Management Roles and Responsibilities; Monitoring; Requirements (Legal and |
|  |  | Contractual); Risk Management and Assessments |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to Joint Commission Accreditation |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |  |
|  | **Level 1 Implementation:** | An organizational data protection and privacy policy shall be developed and |
|  |  |
|  |  | implemented. This policy shall be communicated to all persons involved in the |
|  |  | processing of covered information. Compliance with this policy and all relevant |
|  |  | data protection legislation and regulations shall be supported by management |
|  |  | structure and control. Responsibility for handling covered information and |
|  |  | ensuring awareness of the data protection principles shall be dealt with in |
|  |  | accordance with relevant legislation and regulations. |
|  |  | Technical security controls - including access controls, special authentication |
|  |  | requirements, and monitoring - and organizational measures to protect covered |
|  |  | information shall be implemented. |
|  |  | There shall be an appointment of a person responsible, such as a data protection |
|  |  | officer or privacy officer, who shall be responsible for the organizations individual |
|  |  | privacy protection program, and the officer shall report directly to the highest |
|  |  | management level of the organization (e.g., a CEO). The data protection officer |
|  |  | shall be designated on the basis of professional qualities and, in particular, expert |
|  |  | knowledge of data protection law and practices and the ability to fulfill required |
|  |  | tasks. |
|  |  | Responsibilities shall include the development and implementation of privacy |
|  |  | policies and procedures, serving as the point of contact for all privacy-related |
|  |  | issues, including the receipt of privacy-related complaints, and shall providing |
|  |  | privacy-related guidance to managers, users, and service providers on their |
|  |  | individual responsibilities and the specific procedures that shall be followed. The |
|  |  | data protection officer will, in the performance of those tasks, have due regard to |
|  |  | the risk associated with processing operations, taking into account the nature, |

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scope, context and purposes of processing.

The data protection officer may fulfil other tasks and duties; however, the organization ensures that any such tasks and duties do not result in a conflict of interests.

Where required by legislation, consent shall be obtained before any protected information (e.g., about a patient) is emailed, faxed, or communicated by telephone conversation, or otherwise disclosed, to parties external to the organization.

The information system protects the confidentiality and integrity of information at rest. Covered information, at minimum, shall be rendered unusable, unreadable, or indecipherable anywhere it is stored, including on personal computers (laptops, desktops) portable digital media, backup media, servers, databases, or in logs, by using any of the following approaches:

1. full disk encryption (mandatory for laptops and other mobile devices that support full disk encryption, see 01.x)
2. virtual disk encryption
3. volume disk encryption
4. file and folder encryption

The encryption approach shall be implemented using one or a combination of the following:

1. one-way hashes based on strong cryptography
2. truncation
3. strong cryptography with associated key-management processes and procedures

The system shall implement one (1) of the following encryption algorithms:

1. AES-CBC (AES in Cipher Block Chaining mode) with a 128-bit key minimum (256-bit key for cloud services)
2. Triple DES (3DES-CBC)

If encryption is not applied because it is determined to not be reasonable or appropriate, the organization shall document its rationale for its decision or use alternative compensating controls other than encryption if the method is approved and reviewed annually by the CISO.

If disk encryption is used (rather than file- or column-level database encryption), logical access shall be managed independently of native operating system access control mechanisms, and decryption keys shall not be tied to user accounts. See NIST SP800-111 Guide to Storage Encryption Technologies for End User Devices for more information on implementing strong cryptography technologies.

Organizations shall explicitly identify and ensure the implementation of security and privacy protections for the transfer of organizational records, or extracts of such records, containing sensitive personal information to a state or federal agency or other regulatory body that lawfully collects such information.

The organization specifies where covered information can be stored

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|  |  |
| --- | --- |
|  | Covered information storage shall be kept to a minimum. |
|  | The controller and the processor shall designate a data protection officer in any |
|  | case where: |
|  | 1. the processing is carried out by a public authority or body, except for |
|  | courts acting in their judicial capacity; |
|  | 2. the core activities of the controller or the processor consist of processing |
|  | operations which, by virtue of their nature, their scope and/or their |
|  | purposes, require regular and systematic monitoring of data subjects on a |
|  | large scale; or |
|  | 3. the core activities of the controller or the processor consist of processing |
|  | on a large scale of special categories of data and personal data relating |
|  | to criminal convictions and offences. |
|  | The organization supports the data protection officer in performing the tasks |
|  | required by law or regulation by providing resources necessary to carry out those |
|  | tasks and access to personal data and processing operations, and to maintain the |
|  | data protection officers expert knowledge. |
|  | The organization ensures that the data protection or privacy officer does not |
|  | receive any instructions regarding the exercise of those tasks, and the officer shall |
|  | be bound by secrecy or confidentiality concerning the performance of the of those |
|  | tasks, in accordance with applicable law or regulation. The officer shall not be |
|  | dismissed or penalized by the organization for performing those tasks. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(i) |
| **Mapping:** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  |
|  | 1 TAC § 390.2(a)(4)(A)(xv) |
|  | 21 CFR Part 11.30 |
|  | 23 NYCRR 500.12(a) |
|  | 23 NYCRR 500.13 |
|  | 23 NYCRR 500.15(a) |
|  | 23 NYCRR 500.15(a)(2) |
|  | 23 NYCRR 500.15(b) |
|  | AICPA C1.2 |
|  | AICPA C1.3 |
|  | AICPA CC1.1 |
|  | AICPA CC1.2 |
|  | AICPA CC3.1 |
|  | AICPA CC5.1 |
|  | AICPA CC5.7 |
|  | CIS CSC v6 14.5 |
|  | CIS CSC v6 14.7 |
|  | CMSRs 2013v2 AR-1 (HIGH) |
|  | CMSRs 2013v2 AR-2 (HIGH) |
|  |  |

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CMSRs 2013v2 SC-12(1) (HIGH)

CMSRs 2013v2 SC-28 (HIGH)

CRR V2016 CM:G2.Q3

CRR V2016 CM:G2.Q4

CSA CCM v3.0.1 EKM-01

CSA CCM v3.0.1 EKM-02

CSA CCM v3.0.1 EKM-03

De-ID Framework v1 Data Storage: General

De-ID Framework v1 Storage (Minimal Locations Authorized): Policy

FedRAMP PS-28(1)

FedRAMP SC-28

FedRAMP SC-28(1)

FFIEC IS v2016 A.6.18(a)

FFIEC IS v2016 A.6.18(b)

GDPR Article 24(1)

GDPR Article 25(1)

GDPR Article 25(2)

GDPR Article 32(1)

GDPR Article 32(1)(a)

GDPR Article 32(1)(b)

GDPR Article 37(1)

GDPR Article 37(2)

GDPR Article 37(5)

GDPR Article 38(1)

GDPR Article 38(2)

GDPR Article 38(3)

GDPR Article 38(5)

GDPR Article 38(6)

GDPR Article 39(1)

GDPR Article 39(2)

GDPR Article 5(1)(f)

GDPR Article 5(2)

GDPR Article 6(1)(a)

Guidance to render PHI unusable, unreadable, or indecipherable (1)(i)

Guidance to render PHI unusable, unreadable, or indecipherable (1)(ii)

HIPAA § 164.530(a)

HIPAA § 164.530(a)(2)(i)

HIPAA § 164.530(b)

HIPAA § 164.530(c)(1)

HITRUST SME

IRS Pub 1075 v2014 4.2

IRS Pub 1075 v2014 8.3

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IRS Pub 1075 v2014 9.3.16.15

IRS Pub 1075 v2014 9.3.6.7

ISO 27799-2008 7.12.2.2

ISO 27799-2008 7.7.10.3

ISO/IEC 27002:2005 15.1.4

ISO/IEC 27002:2013 18.1.4

JCAHO IM.02.01.03, EP 2

MARS-E v2 AR-1

MARS-E v2 AR-2

MARS-E v2 SC-12

MARS-E v2 SC-28

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-2

NIST SP 800-53 R4 AR-1

NIST SP 800-53 R4 AR-2

NIST SP 800-53 R4 SC-12(1)

NIST SP 800-53 R4 SC-28

NIST SP 800-53 R4 SC-28(1)

NRS 603A.210.1

NRS 603A.215.1

PCI DSS v3.2 3.4

PMI DSP Framework PR.DS-1

PMI DSP Framework PR.DS-2

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |

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|  |  |  |
| --- | --- | --- |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Covered information storage shall be kept to a minimum. Limit storage amount |
|  |  | and retention time to that which is required for business, legal, and/or regulatory |
|  |  | purposes, as documented in the data retention policy. |
|  |  | The organization implements technical means to ensure covered information is |
|  |  | stored in organization-specified locations. |
|  |  |  |
|  | **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Control Standard** | AICPA CC3.1 |
|  | **Mapping:** | CMSRs 2013v2 SI-12 (HIGH) |
|  |  |
|  |  | De-ID Framework v1 Storage (Minimal Locations Authorized): Implementation |
|  |  | FedRAMP SI-12 |
|  |  | FFIEC IS v2016 A.6.30 |
|  |  | IRS Pub 1075 v2014 9.3.17.9 |
|  |  | IRS Pub 1075 v2014 9.4.2 (E.10) |
|  |  | ISO 27799-2008 7.9.2.1 |
|  |  | ISO/IEC 27002:2005 15.1.3 |
|  |  | ISO/IEC 27002:2013 18.1.3 |
|  |  | MARS-E v2 SI-12 |
|  |  | NIST Cybersecurity Framework ID.GV-3 |
|  |  | NIST SP 800-53 R4 SI-12 |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 3.1 |
|  |  |  |
|  | **Level CIS Implementation Requirements** | |
|  |  |  |
|  | **Level CIS Implementation:** | Access to encrypted information at rest shall require a secondary authentication |
|  |  |
|  |  | mechanism not integrated into the operating system. |
|  |  |  |
|  | **Level De-ID Data** | **Implementation Requirements** |
|  | **Environment** |
|  |  |  |
|  | **Level De-ID Data** | Covered information is encrypted in transit whether internal or external to the |
|  | **Environment** |
|  | **Implementation:** | organization's network, and, if not encrypted in transit, the organization must |
|  |  | document its rationale. |
|  |  |  |
|  | **Level FTI Custodians Implementation Requirements** | |
|  |  |  |
|  | **Level FTI Custodians** | Organizations are not allowed to make further disclosures of FTI to their agents or |
|  | **Implementation:** |

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to a contractor unless authorized by statute.

Organizations shall ensure that FTI will not be subject to public disclosure.

FTI stored on deployed user workstations, in non-volatile storage, shall be encrypted with FIPS-validated or National Security Agency (NSA)-approved encryption during storage (regardless of location) except when no approved encryption technology solution is available that addresses the specific technology.

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

A data controller or processor, which is not established in the EU, shall designate in writing a representative in the EU, in one of the EU Member States where the data subjects are and whose personal data are processed in relation to the offering of goods or services to them, or whose behavior is monitored, UNLESS:

1. processing is occasional and
   1. does not include special categories of personal data,
   2. does not include personal data relating to criminal convictions and offenses,
   3. is unlikely to result in a risk to the rights and liberties (freedoms) of natural persons, taking into account the nature, context, scope and purposes of the processing; or
2. the controller or processor is a public authority or body.

The data controller or processor not established in the EU and which is required to designate an EU representative, mandates the representative to be addressed in addition to or instead of the controller or the processor by, in particular, supervisory authorities and data subjects, on all issues related to processing, for the purposes of ensuring compliance with the EU GDPR, and such designation is without prejudice to legal actions that could be initiated against the controller or the processor themselves.

A data protection officer is designated for a (1) controller, (2) processor, (3) group of undertakings, provided the officer is accessible from each establishment, or (4) group of multiple public authorities or bodies, taking account of their organizational structure and size, in any case where:

1. the processing is carried out by a public authority or body, except for courts acting in their judicial capacity;
2. the core activities of the controller or the processor consist of processing operations which, by virtue of their nature, their scope and/or their purposes, require regular and systematic monitoring of data subjects on a large scale; or
3. the core activities of the controller or the processor consist of processing on a large scale of special categories of data and personal data relating to criminal convictions and offences.

The controller or processor or associations and other bodies representing categories of controllers or processors may or, where required by Union or Member State law, also designates a data protection officer, who may act for such

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associations and other bodies representing controllers or processors.

The controller or the processor publishes the contact details of the data protection officer and communicate them to the supervisory authority.

The data protection officer shall have at least the following tasks:

1. To inform and advise the controller or the processor and the employees who carry out processing of their obligations pursuant to the EU GDPR and to other Union or Member State data protection provisions;
2. To monitor compliance with the EU GDPR, with other Union or Member State data protection provisions and with the policies of the controller or processor in relation to the protection of personal data, including the assignment of responsibilities, awareness-raising and training of staff involved in processing operations, and the related audits;
3. To provide advice where requested as regards the data protection impact assessment and monitor its performance;
4. To cooperate with the supervisory authority;
5. To act as the contact point for the supervisory authority on issues relating to processing, including prior consultation with a supervisory authority, and to consult, where appropriate, with regard to any other matter.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall render the PAN unreadable anywhere it is stored (including on portable digital media, backup media, and in logs) by using any of the following approaches:

1. One-way hashes based on strong cryptography (hash must be of the entire PAN)
2. Truncation (hashing cannot be used to replace the truncated segment of the PAN)
3. Index tokens and pads (pads must be securely stored)
4. Strong cryptography with associated key management processes and procedures.

If disk encryption is used (rather than file- or column-level database encryption), logical access must be managed separately and independently of native operating system authentication and access control mechanisms (for example, by not using local user account databases or general network login credentials). Decryption keys must not be associated with user accounts.

**Control Reference: 06.e Prevention of Misuse of Information Assets**

|  |  |
| --- | --- |
| **Control Specification:** | Users shall be deterred from using information assets for unauthorized purposes. |
|  |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization; Awareness and Training; Documentation and Records; IT |
|  |  |

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|  |  |
| --- | --- |
|  | Organization and Management Roles and Responsibilities; Media and Assets; |
|  | Personnel; Third Parties and Contractors |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to PCI Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | The following procedures shall be implemented to ensure proper authorization |
|  |
|  | and use of computer information assets: |
|  | 1. notification to all employees that their actions may be monitored and that |
|  | they consent to such monitoring (Note: the legality of such monitoring |
|  | must be verified in each legal jurisdiction); |
|  | 2. acceptable use agreements that shall be signed by all employees of an |
|  | organization, contractors, and third-party users indicating that they have |
|  | read, understand, and agree to abide by the rules of behavior before |
|  | management authorizes access to the information system and its resident |
|  | information. These acceptable use agreements are retained by the |
|  | organization; |
|  | 3. reviews and updates the rules of behavior every three hundred and sixty- |
|  | five (365) days; and |
|  | 4. requires individuals who have acknowledged a previous version of the |
|  | rules of behavior to read and re-acknowledge when the rules of behavior |
|  | are revised/updated. |
|  | Management shall approve the use of information assets. If any unauthorized |
|  | activity is identified by monitoring or other means, this activity shall be brought to |
|  | the attention of the individual manager concerned for consideration of appropriate |
|  | disciplinary and/or legal action. |
|  | All employees and contractors are informed in writing (e.g., when they sign rules |
|  | of behavior or an acceptable use agreement) that violations of security policies |
|  | may result in sanctions or disciplinary action (see 02.f). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.4 |
|  |
|  | AICPA C1.6 |
|  | AICPA CC1.4 |
|  | AICPA CC2.3 |
|  | AICPA CC2.5 |
|  | AICPA CC5.1 |
|  | CMSRs 2013v2 PL-4 (HIGH) |
|  | CMSRs 2013v2 PS-8 (HIGH) |
|  |  |

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FedRAMP PL-4

FedRAMP PS-8

HIPAA § 164.308(a)(1)(ii)(C)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.308(a)(4)(i)

HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.310(b)

IRS Pub 1075 v2014 9.3.12.3

IRS Pub 1075 v2014 9.3.13.8

ISO/IEC 27002:2005 15.1.5

MARS-E v2 PL-4

MARS-E v2 PS-8

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework DE.CM-3

NIST Cybersecurity Framework PR.IP-11

NIST SP 800-53 R4 PL-4

NIST SP 800-53 R4 PS-6

NIST SP 800-53 R4 PS-8

NRS 603A.215.1

PCI DSS v3.2 12.3.1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  |  |

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Computer login banners shall be displayed stating:

1. the computer being accessed is private;
2. unauthorized access is prohibited;
3. conditions for access (including consent to monitoring and recording), acceptable use, and access limitations; and
4. privacy and security notices.

The user shall be required to acknowledge the login banner to continue with the log-on.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-8 (HIGH) |
| **Mapping:** | FedRAMP AC-8 |
|  |
|  | HIPAA § 164.310(b) |
|  | IRS Pub 1075 v2014 9.3.1.8 |
|  | ISO 27799-2008 7.12.2.3 |
|  | ISO/IEC 27002:2005 12.5.4 |
|  | ISO/IEC 27002:2005 15.1.5 |
|  | MARS-E v2 AC-8 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  | NIST SP 800-53 R4 AC-8 |

**Level CMS Implementation Requirements Level CMS Implementation:**

The approved banner for CMS information systems shall read:

1. you are accessing a U.S. Government information system, which includes:
   1. this computer,
   2. this computer network,
   3. all computers connected to this network, and
   4. all devices and storage media attached to this network or to a computer on this network, and
2. this information system is provided for U.S. Government-authorized use only.
3. unauthorized or improper use of this system may result in disciplinary action, as well as civil and criminal penalties.
4. by using this information system, you understand and consent to the following:
   1. you have no reasonable expectation of privacy regarding any communication or data transiting or stored on this information system and, at any time, and for any lawful Government purpose, the Government may monitor, intercept, and search and seize any communication or data transiting or stored on this information system.
   2. any communication or data transiting or stored on this information system may be disclosed or used for any lawful Government

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purpose.

For publicly accessible systems, the information system:

1. displays the system use information when appropriate, before granting further access;
2. displays references, if any, to monitoring, recording, or auditing that are consistent with privacy accommodations for such systems that generally prohibit those activities; and
3. includes in the notice given to public users of the information system, a description of the authorized uses of the system.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The service provider determines elements of the cloud environment that require the System Use Notification control. The elements of the cloud environment that require System Use Notification are approved and accepted by the Joint Authorization Board (JAB).

The service provider determines how System Use Notification is going to be verified and provide appropriate periodicity of the check. The System Use Notification verification and periodicity are approved and accepted by the Joint Authorization Board (JAB).

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The IRS-approved warning banner must be applied at the application, database, operating system, and network device levels for all systems that receive, process, store, or transmit FTI.

For publicly accessible systems, the information system must:

1. Display the IRS-approved warning banner granting further access;
2. Display references, if any, to monitoring, recording, or auditing that are consistent with privacy accommodations for such systems that generally prohibit those activities; and
3. Include a description of the authorized uses of the system.

The warning banner must contain reference to the civil and criminal penalty sections of Title 26 Sections 7213, 7213A and 7431.

**Control Reference: 06.f Regulation of Cryptographic Controls**

**Control Specification:** Cryptographic controls shall be used in compliance with all relevant agreements, laws, and regulations.

|  |  |  |
| --- | --- | --- |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Cryptography; IT Organization and Management Roles and Responsibilities; |
|  |  | Requirements (Legal and Contractual) |
|  |  |  |
|  |  | **Level 1 Implementation Requirements** |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Legal advice shall be sought in relation to all relevant regulations by the |
|  |
|  | organization. Compliance with all relevant regulations shall be reviewed on an |
|  | annual basis at a minimum. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | AICPA CC5.1 |
| **Mapping:** | AICPA CC5.7 |
|  |
|  | HIPAA § 164.308(a)(1)(ii)(D) |
|  | HIPAA § 164.312(a)(2)(iv) |
|  | HIPAA § 164.312(e)(2)(ii) |
|  | ISO/IEC 27002:2005 6.1.2 |
|  | ISO/IEC 27002:2013 18.1.1 |
|  | ISO/IEC 27002:2013 18.1.2 |
|  | ISO/IEC 27002:2013 18.1.3 |
|  | ISO/IEC 27002:2013 18.1.4 |
|  | ISO/IEC 27002:2013 18.1.5 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  |  |

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  | Multi-State |
|  |  | Off-shore (outside U.S.) |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |

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**Level 2 Implementation:**

Level 1 plus:

The organization shall account for any country-specific regulations governing the use of cryptographic controls which may include the following:

1. import and/or export of computer hardware and software for performing cryptographic functions;
2. import and/or export of computer hardware and software which is designed to have cryptographic functions added to it;
3. restrictions on the usage of encryption;
4. mandatory or discretionary methods of access by the countries to information encrypted by hardware or software to provide confidentiality of content; and
5. mechanisms for authentication to a cryptographic module that meets U.S. requirements for such authentication (e.g., validation under the Cryptographic Module Validation Program to confirm compliance with FIPS 140-2), if applicable.

Legal advice shall be specific to either the country where the cryptographic controls are used, or the country to which such controls are imported or exported.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 IA-7 (HIGH) |
| **Mapping:** | CMSRs 2013v2 SC-13(HIGH) |
|  |
|  | FedRAMP IA-7 |
|  | FedRAMP SC-13 |
|  | HIPAA § 164.312(a)(2)(iv) |
|  | HIPAA § 164.312(e)(2)(ii) |
|  | IRS Pub 1075 v2014 9.3.16.9 |
|  | IRS Pub 1075 v2014 9.3.7.7 |
|  | ISO 27799-2008 7.12.2.3 |
|  | ISO/IEC 27002:2005 15.1.6 |
|  | ISO/IEC 27002:2013 18.1.5 |
|  | MARS-E v2 IA-13(1) |
|  | MARS-E v2 IA-7 |
|  | MARS-E v2 ISC-13 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST SP 800-53 R4 IA-7 |
|  | NIST SP 800-53 R4 SC-13 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

When cryptographic mechanisms are used, the organization employs, at a minimum, FIPS 140-2 compliant and NIST-validated cryptography to protect unclassified information.

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**Objective Name: 06.02 Compliance with Security Policies and Standards, and Technical Compliance**

**Control**

**Objective:** To ensure that the design, operation, use and management of information systems adheres to organizational security policies and standards.

**Control Reference: 06.g Compliance with Security Policies and Standards**

|  |  |
| --- | --- |
| **Control Specification:** | Managers shall ensure that all security procedures within their area of |
|  |
|  | responsibility are carried out correctly to achieve compliance with security policies |
|  | and standards. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; Policies and Procedures; |
|  | Requirements (Legal and Contractual); Risk Management and Assessments |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Joint Commission Accreditation |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |
| **Level 1 Implementation:** | Reviews of the compliance of systems with security and privacy policies, |
|  |
|  | standards and any other security and privacy requirements (HIPAA, legal, etc.) |
|  | shall be supported by system and information owners. Compliance reviews shall |
|  | be conducted by security, privacy and/or audit individuals and incorporate reviews |
|  | of documented evidence. Automated tools shall be used where possible, but |
|  | manual processes are acceptable. |
|  | Annual compliance assessments shall be conducted. If any non-compliance is |
|  | found as a result of the review, managers shall: |
|  | 1. determine the causes of the non-compliance; |
|  | 2. evaluate the need for actions to ensure that non-compliance does not |
|  | recur; |
|  | 3. determine and implement appropriate corrective action; and |
|  | 4. review the corrective action taken. |
|  | The results and recommendations of these reviews shall be documented and |
|  | approved by management. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
|  |  |

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**Control Standard Mapping:**

AICPA CC4.1

CMSRs 2013v2 AR-4 (HIGH)

COBIT 4.1 DS5.5

COBIT 5 DSS05.07

CSA CCM v3.0.1 HRS-07

CSA CCM v3.0.1 STA-04

FFIEC IS v2016 A.10.1

FFIEC IS v2016 A.10.3(a)

FFIEC IS v2016 A.10.5

FFIEC IS v2016 A.10.6

FFIEC IS v2016 A.6.4(c)

FFIEC IS v2016 A.8.1(c)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(2)

HIPAA § 164.308(a)(8)

ISO 27799-2008 7.12.3

ISO/IEC 27002:2005 15.2.1

ISO/IEC 27002:2005 15.2.2

ISO/IEC 27002:2013 18.2.2

ISO/IEC 27002:2013 18.2.3

JCAHO IM.02.01.03, EP 8

MARS-E v2 AR-4

NIST Cybersecurity Framework DE.DP-1

NIST Cybersecurity Framework DE.DP-4

NIST Cybersecurity Framework ID.RA-6

NIST SP 800-53 R4 AR-4

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The internal security organization shall regularly review the compliance of |
|  | information processing as part of a formal risk assessment process. Automated |
|  | compliance tools/scans shall be used where possible. |
|  | The organization shall employ assessors or assessment teams to monitor the |
|  | security controls in the information system on an ongoing basis as part of a |
|  | continuous monitoring program. These teams will have a level of independence |
|  | appropriate to the organization's continuous monitoring strategy. |
|  | The organization shall develop a continuous monitoring strategy and implement a |
|  | continuous monitoring program that includes: |
|  | 1. establishment of defined metrics to be monitored annually, at a minimum; |
|  | 2. ongoing program assessments in accordance with its continuous |
|  | monitoring strategy that includes, at a minimum: |
|  | i. annual compliance assessments across the entire organization |
|  | and |
|  | ii. third party independent compliance assessments performed bi- |
|  | annually; |
|  | 3. ongoing status monitoring in accordance with its continuous monitoring |
|  | strategy; |
|  | 4. correlation and analysis of security-related information generated by |
|  | assessments and monitoring; |
|  | 5. response actions to address results of these analyses; and |
|  | 6. reporting the security state of the information system to appropriate |
|  | organizational officials monthly and, if required, to external agencies (e.g., |
|  | HHS, CMS) as required by that agency. |
|  | The security organization shall maintain records of the compliance results (e.g., |
|  | organization-defined metrics) in order to better track security trends within the |
|  | organization, respond to the results of correlation and analysis, and to address |
|  | longer term areas of concern. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CA-1 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CA-7 (HIGH) |
|  |
|  | CMSRs 2013v2 CA-7(1) (HIGH) |
|  | CMSRs 2013v2 RA-5 (HIGH) |
|  | COBIT 4.1 DS5.5 |
|  | COBIT 5 DSS05.07 |
|  | FedRAMP CA-1 |
|  | FedRAMP CA-7 |
|  |  |

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FedRAMP CA-7(1)

FedRAMP RA-5

FedRAMP SA-4(8)

FFIEC IS v2016 A.4.1

FFIEC IS v2016 A.6.28(f)

FFIEC IS v2016 A.7.4(c)

FFIEC IS v2016 A.7.4(d)

FFIEC IS v2016 A.8.1(o)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(2)

HIPAA § 164.308(a)(8)

IRS Pub 1075 v2014 9.3.14.3

IRS Pub 1075 v2014 9.3.4.1

IRS Pub 1075 v2014 9.3.4.6

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO/IEC 27002:2005 15.2.1

ISO/IEC 27002:2005 15.2.2

ISO/IEC 27002:2013 18.2.2

ISO/IEC 27002:2013 18.2.3

MARS-E v2 CA-1

MARS-E v2 CA-7

MARS-E v2 CA-7(1)

MARS-E v2 RA-5

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework DE.DP-1

NIST Cybersecurity Framework DE.DP-4

NIST SP 800-53 R4 CA-1

NIST SP 800-53 R4 CA-7

NIST SP 800-53 R4 CA-7(1)

NIST SP 800-53 R4 RA-5

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization employs assessors or assessment teams with CMS-CISO-defined level of independence to monitor the security controls in the information system on an ongoing basis.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** Organizations must ensure that data warehousing meets minimum security requirements defined in the current revision of NIST SP 800-53 and address the

methodology used to inform management, define accountability, and address

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known security vulnerabilities.

**Level HIX Implementation Requirements Level HIX Implementation:**

The use of independent security assessment agents or teams to monitor security controls is not required; however, if the organization employs an independent assessor or assessment teams with a CMS-defined level of independence to monitor the security controls in the information system on an ongoing basis, this can be used to satisfy security control assessment requirements.

**Level PCI Implementation Requirements Level PCI Implementation:**

When being assessed as a service provider, the organization performs reviews at least quarterly to confirm personnel are following security policies and operational procedures. Reviews must cover the following processes: (i) daily log reviews (ii) firewall rule-set reviews (iii) applying configuration standards to new systems (iv) responding to security alerts (v) change management processes.

When being assessed as a service provider, the organization maintains documentation of quarterly review process to include: (i) documenting results of the reviews (ii) review and sign-off of results by personnel assigned responsibility for the PCI DSS compliance program.

**Control Reference: 06.h Technical Compliance Checking**

**Control Specification:**

|  |  |
| --- | --- |
|  | Information systems shall be regularly checked for compliance with security |
|  | implementation standards. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Audit and Accountability; Requirements (Legal and Contractual); Risk |
|  | Management and Assessments |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |

**Level 1 Implementation:**

The organization shall check the technical security configuration of information systems and network components (e.g., firewalls, routers and switches). Checking shall be performed either manually, by an individual with experience

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|  |  |  |
| --- | --- | --- |
|  |  | with the systems, and/or with the assistance of automated software tools. These |
|  |  | compliance checks shall be performed annually. |
|  |  | If any non-compliance is found as a result of the review, the organization shall: |
|  |  | 1. determine the causes of the non-compliance; |
|  |  | 2. evaluate the need for actions to ensure that non-compliance does not |
|  |  | recur; |
|  |  | 3. determine and implement appropriate corrective action; and |
|  |  | 4. review the corrective action taken. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | AICPA CC4.1 |
|  | **Mapping:** | AICPA CC5.8 |
|  |  |
|  |  | AICPA CC6.1 |
|  |  | AICPA CC7.2 |
|  |  | AICPA CC7.3 |
|  |  | CIS CSC v6 11.1 |
|  |  | CIS CSC v6 16.14 |
|  |  | COBIT 4.1 DS5.5 |
|  |  | COBIT 5 DSS05.07 |
|  |  | HIPAA § 164.308(a)(1)(ii)(D) |
|  |  | HIPAA § 164.308(a)(8) |
|  |  | ISO 27799-2008 7.12.3 |
|  |  | ISO/IEC 27002:2005 15.2.1 |
|  |  | ISO/IEC 27002:2005 15.2.2 |
|  |  | ISO/IEC 27002:2013 18.2.2 |
|  |  | ISO/IEC 27002:2013 18.2.3 |
|  |  | NIST Cybersecurity Framework DE.CM-8 |
|  |  | NIST Cybersecurity Framework ID.RA-1 |
|  |  | NIST Cybersecurity Framework ID.RA-6 |
|  |  | NIST Cybersecurity Framework PR.IP-12 |
|  |  | NIST Cybersecurity Framework RS.MI-3 |
|  |  | NIST SP 800-53 R4 CA-2 |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |

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|  |  |  |
| --- | --- | --- |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Technical compliance checking shall be performed by an experienced technical |
|  |  | specialist with the assistance of industry standard automated tools, which |
|  |  | generate a technical report for subsequent interpretation. Deviations shall be |
|  |  | logged and automatically reported. Technical compliance checks shall be |
|  |  | performed at least annually, and more frequently where needed based on risk, as |
|  |  | part of an official risk assessment process. |
|  |  | Special attention shall be drawn to compliance for the purpose of technical |
|  |  | interoperability. |
|  |  | Mutually-agreed upon provisions and/or terms shall be established to satisfy |
|  |  | customer (tenant) requirements for service-to-service application (API) and |
|  |  | information processing interoperability, and portability for application development |
|  |  | and information exchange, usage, and integrity persistence. |
|  |  | Supply chain agreements (e.g., SLAs) between providers and customers |
|  |  | (tenants) shall incorporate at least the following mutually-agreed-upon provisions |
|  |  | and/or terms: |
|  |  | 1. Scope of business relationship and services offered (e.g., customer |
|  |  | (tenant) data acquisition, exchange and usage, feature sets and |
|  |  | functionality, personnel and infrastructure network and systems |
|  |  | components for service delivery and support, roles and responsibilities of |
|  |  | provider and customer (tenant) and any subcontracted or outsourced |
|  |  | business relationships, physical geographical location of hosted services, |
|  |  | and any known regulatory compliance considerations); |
|  |  | 2. Information security requirements, provider and customer (tenant) primary |
|  |  | points of contact for the duration of the business relationship, and |
|  |  | references to detailed supporting and relevant business processes and |
|  |  | technical measures implemented to enable effective governance, risk |
|  |  | management, assurance and legal, statutory and regulatory compliance |
|  |  | obligations by all impacted business relationships; |
|  |  | 3. Notification and/or pre-authorization of any changes controlled by the |
|  |  | provider with customer (tenant) impacts; |
|  |  | 4. Timely notification of a security incident (or confirmed breach) to all |
|  |  | customers (tenants) and other business relationships impacted (i.e., up- |
|  |  | and down-stream impacted supply chain); |

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|  |  |
| --- | --- |
|  | 5. Assessment and independent verification of compliance with agreement |
|  | provisions and/or terms (e.g., industry-acceptable certification, attestation |
|  | audit report, or equivalent forms of assurance) without posing an |
|  | unacceptable business risk of exposure to the organization being |
|  | assessed; |
|  | 6. Expiration of the business relationship and treatment of customer (tenant) |
|  | data impacted; and |
|  | 7. Customer (tenant) service-to-service application (API) and data |
|  | interoperability and portability requirements for application development |
|  | and information exchange, usage, and integrity persistence. |
|  | Service agreements (e.g., SLAs) between providers and customers (tenants) |
|  | across the relevant supply chain (upstream/downstream) are reviewed |
|  | consistently and no less than annually to identify any non-conformance to |
|  | established agreements. The reviews should result in actions to address service- |
|  | level conflicts or inconsistencies resulting from disparate supplier relationships. |
|  | Third-party service providers shall demonstrate compliance with information |
|  | security and confidentiality, access control, service definitions, and delivery level |
|  | agreements included in third-party contracts. Third-party reports, records, and |
|  | services shall undergo audit and review at least annually to govern and maintain |
|  | compliance with the service delivery agreements. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 11.3 |
| **Mapping:** | CIS CSC v6 13.3 |
|  |
|  | CIS CSC v6 13.4 |
|  | CIS CSC v6 3.5 |
|  | CMSRs 2013v2 CA-2(2) (HIGH) |
|  | CMSRs 2013v2 CA-7 (HIGH) |
|  | CMSRs 2013v2 RA-5 (HIGH) |
|  | COBIT 4.1 DS5.5 |
|  | FedRAMP CA-7 |
|  | FedRAMP RA-5 |
|  | HIPAA § 164.308(a)(1)(ii)(D) |
|  | HIPAA § 164.308(a)(8) |
|  | IRS Pub 1075 v2014 9.3.14.3 |
|  | IRS Pub 1075 v2014 9.3.4.6 |
|  | ISO/IEC 27002:2005 15.2.2 |
|  | ISO/IEC 27002:2013 18.2.3 |
|  | MARS-E v2 CA-7 |
|  | MARS-E v2 RA-5 |
|  | NIST Cybersecurity Framework DE.CM-8 |
|  | NIST SP 800-53 R4 CA-2 |
|  | NIST SP 800-53 R4 CA-2(2) |
|  | NIST SP 800-53 R4 CA-7 |
|  |  |

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NIST SP 800-53 R4 RA-5

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization verifies that all authentication files are encrypted or hashed and cannot be accessed without root or administrator privileges.

To help determine if a business or technical process is leaving behind or otherwise leaking sensitive information (e.g., personally identifiable information, health, credit card, or classified information), the organization conducts periodic scans of server machines using automated tools to determine whether sensitive data is present on the system in clear text.

Utilize file integrity checking tools to ensure that critical system files (including sensitive system and application executables, libraries, and configurations) have not been altered.

The file integrity checking tools reporting system should:

1. have the ability to account for routine and expected changes
2. highlight and alert on unusual or unexpected changes;
3. show the history of configuration changes over time and identify who made the change (including the original logged-in account in the event of a user ID switch, such as with the su or sudo command).
4. owner and permissions changes to files or directories;
5. the use of alternate data streams which could be used to hide malicious activities;
6. and the introduction of extra files into key system areas (which could indicate malicious payloads left by attackers or additional files inappropriately added during batch distribution processes).

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall include as part of security control assessments, within every three hundred sixty-five (365) days, announced or unannounced in-depth system monitoring; vulnerability scanning; malicious user testing; insider threat assessment; and performance/load testing.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The organization includes as part of its security control assessments, within every three hundred and sixty-five (365) days, announced vulnerability scanning.

**Objective Name: 06.03 Information System Audit Considerations**

|  |  |
| --- | --- |
| **Control** | Ensure the integrity and effectiveness of the information systems audit process. |
| **Objective:** |

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**Control Reference: 06.i Information Systems Audit Controls**

|  |  |
| --- | --- |
| **Control Specification:** | Audit requirements and activities involving checks on operational systems shall be |
|  | carefully planned and agreed to, to minimize the risk of disruptions to business |
|  | processes. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; Monitoring |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | At a minimum, an annual audit planning and scoping process shall exist and give |
|  |
|  | consideration to risk, involvement of technical and business staff, other ongoing |
|  | projects, and business impacts that may impact the effectiveness of the audit. |
|  | If desired, a smaller quarterly process can be utilized to minimize impact to |
|  | operations. The quarterly process shall ensure the entire organization is audited |
|  | annually. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC4.1 |
|  |
|  | CMSRs 2013v2 CA-2 (HIGH) |
|  | CSA CCM v3.0.1 AAC-02 |
|  | HIPAA § 164.308(a)(1)(ii)(B) |
|  | HIPAA § 164.308(a)(1)(ii)(D) |
|  | HIPAA § 164.310(a)(2)(ii) |
|  | HIPAA § 164.312(b) |
|  | HIPAA § 164.316(a) |
|  | HIPAA § 164.316(b)(1) |
|  | HIPAA § 164.316(b)(2)(iii) |
|  | IRS Pub 1075 v2014 9.3.4.2 |
|  | ISO/IEC 27002:2005 15.3.1 |
|  | ISO/IEC 27002:2013 12.7.1 |
|  | MARS-E v2 CA-2 |
|  | NIST Cybersecurity Framework DE.DP-1 |
|  | NIST Cybersecurity Framework DE.DP-2 |
|  | NIST Cybersecurity Framework ID.GV-4 |
|  |  |

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NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 CA-2

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds | |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives | |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions | |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients | |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) | |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) | |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions | |
|  |  | Physician Count: Between 11 and 25 Physicians | |
|  |  | Physician Encounters: Between 60k to 180k Encounters | |
|  |  | Record Count Annual: Between 180k and 725k Records | |
|  |  | Record Total: Between 10 and 60 Million Records | |
|  |  |  |  |
|  | **Level 2** |  |  |
|  | **System Factors:** |  |  |
|  |  |  | |
|  | **Level 2** | Subject to FedRAMP Certification | |
|  | **Regulatory Factors:** | Subject to FISMA Compliance | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: | |
|  |  |
|  |  | The organization shall develop, disseminate, and review/update annually: | |
|  |  | 1. | a formal, documented audit and accountability policy that addresses |
|  |  |  | purpose, scope, roles, responsibilities, management commitment, |
|  |  |  | coordination among organizational entities, and compliance; and |
|  |  | 2. | formal, documented procedures to facilitate the implementation of the |
|  |  |  | audit and accountability policy and associated audit and accountability |
|  |  |  | controls. |
|  |  | While planning and performing operational system audits, the following shall be | |
|  |  | addressed: | |
|  |  | 1. | audit requirements shall be agreed upon with appropriate management, |
|  |  |  | but at a minimum shall address user access and behavior risks; |
|  |  | 2. | the scope of the checks shall be agreed and controlled; |
|  |  | 3. | the checks shall be limited to read-only access to software and data; |
|  |  | 4. | access other than read-only shall only be allowed for isolated copies of |
|  |  |  | system files, which shall be erased when the audit is completed; |
|  |  | 5. | IT resources for performing the checks shall be explicitly identified and |
|  |  |  | made available; |
|  |  | 6. | requirements for special or additional processing shall be identified and |
|  |  |  | agreed; |
|  |  | 7. | all access shall be monitored and logged to produce a reference trail; |

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|  |  |
| --- | --- |
|  | 8. all procedures, requirements and responsibilities shall be documented; |
|  | 9. the person(s) carrying out the audit shall be independent of the activities |
|  | audited; |
|  | 10. scheduling of the audits shall be performed during times of least impact to |
|  | business operations, for example, not during other audits such as |
|  | financial audits, end of major financial periods, deployments of major |
|  | systems, etc.; and |
|  | 11. audits shall be scheduled in advance to ensure availability of proper |
|  | individuals and systems, and coordination of all business units. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AU-1 (HIGH) |
| **Mapping:** | CMSRs 2013v2 PL-2 (HIGH) |
|  |
|  | CSA CCM v3.0.1 AAC-01 |
|  | FedRAMP AU-1 |
|  | FedRAMP CA-2 |
|  | FedRAMP PL-2 |
|  | HIPAA § 164.308(a)(1)(ii)(B) |
|  | HIPAA § 164.312(b) |
|  | IRS Pub 1075 v2014 9.3.12.2 |
|  | IRS Pub 1075 v2014 9.3.3.1 |
|  | ISO/IEC 27002:2005 15.3.1 |
|  | ISO/IEC 27002:2013 12.7.1 |
|  | MARS-E v2 AU-1 |
|  | MARS-E v2 PL-2 |
|  | NIST Cybersecurity Framework DE.DP-1 |
|  | NIST Cybersecurity Framework DE.DP-2 |
|  | NIST Cybersecurity Framework DE.DP-4 |
|  | NIST Cybersecurity Framework ID.GV-4 |
|  | NIST Cybersecurity Framework PR.PT-1 |
|  | NIST SP 800-53 R4 AU-1 |
|  | NIST SP 800-53 R4 AU-2 |
|  | NIST SP 800-53 R4 PL-2 |
|  | PMI DSP Framework DE-1 |
|  |  |

**Control Reference: 06.j Protection of Information Systems Audit Tools**

**Control Specification:** Access to information systems audit tools shall be protected to prevent any possible misuse or compromise.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Audit and Accountability; Authorization; User Access |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |

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|  |  |  |
| --- | --- | --- |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 1 Implementation:** | Access to information systems audit tools shall be protected to prevent any |
|  |  |
|  |  | possible misuse or compromise. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Control Standard** | AICPA CC4.1 |
|  | **Mapping:** | CMSRs 2013v2 AU-9 (HIGH) |
|  |  |
|  |  | CSA CCM v3.0.1 IAM-01 |
|  |  | FedRAMP AU-9 |
|  |  | IRS Pub 1075 v2014 9.3.3.10 |
|  |  | ISO/IEC 27002:2005 15.3.2 |
|  |  | MARS-E v2 AU-9 |
|  |  | NIST Cybersecurity Framework DE.DP-1 |
|  |  | NIST Cybersecurity Framework PR.AC-1 |
|  |  | NIST Cybersecurity Framework PR.AC-4 |
|  |  | NIST SP 800-53 R4 AU-9 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Information systems audit tools (e.g., software or data files) shall be separated |
|  |  | from development and operational systems and not held in tape libraries or user |
|  |  | areas. Access to these tools shall be documented and enforced per a formal |

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|  |  |
| --- | --- |
|  | procedure, restricted to authorized individuals only, and approved by designated |
|  | system owners. Use of these tools shall only be authorized after receiving |
|  | permission from system owners and as part of a documented assessment |
|  | process. Specific controls identified within the access control section shall also be |
|  | enforced for the audit tools. Audits of these controls shall be performed at least |
|  | annually. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-6(1) (HIGH) |
| **Mapping:** | CMSRs 2013v2 AU-1 (HIGH) |
|  |
|  | CMSRs 2013v2 AU-2 (HIGH) |
|  | CMSRs 2013v2 AU-9 (HIGH) |
|  | CMSRs 2013v2 CA-2 (HIGH) |
|  | CSA CCM v3.0.1 AAC-02 |
|  | FedRAMP AC-6(1) |
|  | FedRAMP AU-1 |
|  | FedRAMP AU-9 |
|  | FedRAMP CA-2 |
|  | IRS Pub 1075 v2014 9.3.3.10 |
|  | IRS Pub 1075 v2014 9.3.3.11 |
|  | IRS Pub 1075 v2014 9.3.4.2 |
|  | ISO 27799-2008 7.12.4 |
|  | ISO/IEC 27002:2005 15.3.1 |
|  | ISO/IEC 27002:2005 15.3.2 |
|  | ISO/IEC 27002:2013 A 12.7.1 |
|  | MARS-E v2 AC-6(1) |
|  | MARS-E v2 AU-1 |
|  | MARS-E v2 AU-9 |
|  | MARS-E v2 CA-2 |
|  | NIST Cybersecurity Framework DE.DP-1 |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST Cybersecurity Framework PR.IP-1 |
|  | NIST Cybersecurity Framework PR.PT-3 |
|  | NIST SP 800-53 R4 AC-6(1) |
|  | NIST SP 800-53 R4 AU-1 |
|  | NIST SP 800-53 R4 AU-9 |
|  | NIST SP 800-53 R4 CA-2 |
|  |  |

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**Control Category: 07.0 - Asset Management**

**Objective Name: 07.01 Responsibility for Assets**

**Control**

**Objective:** To ensure that management requires ownership and defined responsibilities for the protection of information assets.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 07.a Inventory of Assets** | |
|  |  |  |
|  | **Control Specification:** | All assets including information shall be clearly identified and an inventory of all |
|  |  |
|  |  | assets drawn up and maintained. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Contingency Planning; Documentation and Records; IT Organization and |
|  |  | Management Roles and Responsibilities; Media and Assets; Third Parties and |
|  |  | Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to HITRUST De-ID Framework Requirements |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall identify and inventory all assets and services including |
|  |  |
|  |  | information (e.g., ePHI, PII), encrypted or unencrypted, wherever it is created, |
|  |  | received, maintained or transmitted, including organizational and third-party sites, |
|  |  | and document the importance of these assets. Locations in which ePHI |
|  |  | constitutes a designated record set shall be explicitly identified in the asset |
|  |  | inventory. Approved bring your own device (BYOD) equipment shall also be |
|  |  | included on the organizations inventories. The asset inventories shall also include |
|  |  | all information necessary to recover from a disaster, including type or |
|  |  | classification of the asset, format, location, backup information, license |
|  |  | information, and the importance of these assets (business value). The inventory |
|  |  | shall not duplicate other inventories unnecessarily, but it shall be ensured that the |
|  |  | content is aligned. |
|  |  | The organization shall maintain an inventory of authorized wireless access points, |
|  |  | including a documented business justification, to support unauthorized WAP |
|  |  | identification (see 09.m) and response (see 11.c). |
|  |  | Specific policies shall exist for maintaining records of organizational property |

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|  |  |
| --- | --- |
|  | (capital and non-capital) assigned to employees, contractors, or volunteers. |
|  | Organization management shall be responsible for establishing procedures to |
|  | issue and inventory property assigned to employees. |
|  | Records of property assigned to employees shall be reviewed and updated |
|  | annually. The record shall be used to document and ensure that all property is |
|  | returned to the organization upon employee termination or transfer out of the |
|  | organization or department. |
|  | Organizations that assign organization-owned property to contractors shall ensure |
|  | that the procedures for assigning and monitoring the use of the property are |
|  | included in the contract. If organization-owned property is assigned to volunteer |
|  | workers, there shall be a written agreement specifying how and when the property |
|  | will be inventoried and how it shall be returned upon completion of the volunteer |
|  | assignment. |
|  | The organization shall create and document the process/procedure the |
|  | organization intends to use for deleting data from hard-drives prior to property |
|  | transfer, exchange, or disposal/surplus. The organization shall create and |
|  | document the process/procedure the organization intends to use to transfer, |
|  | exchange or dispose of an IT-related asset (according to the organization's |
|  | established lifecycle). |
|  | If dynamic host configuration protocol (DHCP) is used to dynamically assign IP |
|  | addresses, ensure the DHCP server logs are used to help detect unknown |
|  | systems on the network and improve the organization's asset inventory. |
|  | The asset inventory shall include all systems connected to the network and the |
|  | network devices themselves, recording at least the network addresses, machine |
|  | name(s), purpose of each system, an asset owner responsible for each device, |
|  | and the department associated with each device. The inventory should include |
|  | every system that has an Internet protocol (IP) address on the network including, |
|  | but not limited to desktops, laptops, servers, network equipment (routers, |
|  | switches, firewalls, etc.), printers, storage area networks, Voice Over-IP |
|  | telephones, multi-homed addresses, virtual addresses, etc. The asset inventory |
|  | created must also include data on whether the device is a portable and/or |
|  | personal device. Devices such as mobile phones, tablets, laptops, and other |
|  | portable electronic devices that store or process data must be identifed, |
|  | regardless of whether they are attached to the organization's network. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.8 |
|  |
|  | AICPA CC3.1 |
|  | AICPA CC5.1 |
|  | CIS CSC v6 1.2 |
|  | CIS CSC v6 1.3 |
|  | CIS CSC v6 1.4 |
|  | CMSRs 2013v2 CM-8(5) (HIGH) |
|  | CMSRs 2013v2 MP-1 (HIGH) |
|  |  |

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CMSRs 2013v2 PM-5 (HIGH)

COBIT 5 APO12.03

CRR V2016 AM:G1.Q1

CRR V2016 AM:G2.Q1

CRR V2016 AM:G2.Q5

CRR V2016 AM:G3.Q1

CRR V2016 AM:G6.Q6

CRR V2016 AM:G6.Q7

CRR V2016 AM:MIL2.Q1

CRR V2016 AM:MIL2.Q2

CRR V2016 AM:MIL2.Q4

CRR V2016 VM:G1.Q5

CSA CCM v3.0.1 DCS-01

CSA CCM v3.0.1 MOS-09

De-ID Framework v1 Data Storage: General

FedRAMP CM-8(5)

FedRAMP MP-1

FFIEC IS v2016 A.6.16(a)

FFIEC IS v2016 A.6.16(e)

FFIEC IS v2016 A.6.6

HIPAA § 164.310(d)(1)

HIPAA § 164.310(d)(2)(i)

HIPAA § 164.310(d)(2)(iii)

HITRUST SME

IRS Pub 1075 v2014 9.3.10.1

IRS Pub 1075 v2014 9.4.12

ISO/IEC 27002:2005 7.1.1

ISO/IEC 27002:2013 A 8.1.1

MARS-E v2 MP-1

MARS-E v2 PM-5

NIST Cybersecurity Framework ID.AM-1

NIST Cybersecurity Framework ID.AM-2

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework PR.DS-3

NIST SP 800-53 R4 CM-8(5)

NIST SP 800-53 R4 MP-1

NIST SP 800-53 R4 PM-5

NRS 603A.215.1

PCI DSS v3.2 11.1.1

PCI DSS v3.2 12.3.3

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

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**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to PCI Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Ownership, custodianship, and information classification shall be agreed and |
|  | documented for each of the assets. Based on the importance of the asset, its |
|  | business value and its security classification, levels of protection and sustainment |
|  | commensurate with the importance of the assets shall be identified. |
|  | The organization shall maintain inventory logs of all media and conduct media |
|  | inventories at least annually. |
|  |  |
| **Level 2** | AICPA C1.8 |
| **Control Standard** | CIS CSC v6 13.5 |
| **Mapping:** | CIS CSC v6 15.1 |
|  |
|  | CIS CSC v6 2.3 |
|  | CRR V2016 AM:G2.Q2 |
|  | CRR V2016 AM:G2.Q3 |
|  | CRR V2016 AM:G6.Q1 |
|  | FedRAMP CM-8 |
|  | FFIEC IS v2016 A.6.6 |
|  | ISO 27799-2008 7.4.1 |
|  | ISO/IEC 27002:2005 7.1.1 |
|  | ISO/IEC 27002:2013 8.1.1 |
|  | NIST Cybersecurity Framework ID.AM-5 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 2.4 |
|  | PCI DSS v3.2 9.7.1 |
|  | PCI DSS v3.2 9.9 |
|  | PCI DSS v3.2 9.9.1 |
|  |  |

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**Level 3 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds | |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives | |
|  |  | HIE Transactions: More than 6 Million Transactions | |
|  |  | Hospital Admissions: More than 20k Patients | |
|  |  | IT Service Provider: More than 60 Terabytes(TB) | |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) | |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions | |
|  |  | Physician Count: Greater than 25 Physicians | |
|  |  | Physician Encounters: Greater than 180k Encounters | |
|  |  | Record Count Annual: More than 725k Records | |
|  |  | Record Total: More than 60 Million Records | |
|  |  |  |  |
|  | **Level 3** |  |  |
|  | **System Factors:** |  |  |
|  |  |  | |
|  | **Level 3** | Subject to Banking Requirements | |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 | |
|  |  | Subject to CRR V2016 | |
|  |  | Subject to FedRAMP Certification | |
|  |  | Subject to FISMA Compliance | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: | |
|  |  |
|  |  | The organization shall create, document, and maintain a process and procedure | |
|  |  | to physically inventory and reconcile IT asset inventory information on hand for: | |
|  |  | 1. | Capital Assets (Inventory must be conducted at least annually) |
|  |  | 2. | Non-Capital Assets |
|  |  | The asset inventory shall include: | |
|  |  | 1. | Unique identifier and/or serial number; |
|  |  | 2. | Information system of which the component is a part; |
|  |  | 3. | Type of information system component (e.g., server, desktop, |
|  |  |  | application); |
|  |  | 4. | Manufacturer/model information; |
|  |  | 5. | Operating system type and version/service pack level; |
|  |  | 6. | Presence of virtual machines; |
|  |  | 7. | Application software version/license information; |
|  |  | 8. | Physical location (e.g., building/room number); |
|  |  | 9. | Logical location (e.g., IP address, position with the IS architecture); |
|  |  | 10. | Media access control (MAC) address; |
|  |  | 11. | Data ownership and custodian by position and role; |
|  |  | 12. | Operational status; |
|  |  | 13. | Primary and secondary administrators; |
|  |  | 14. | Primary user; and |
|  |  | 15. | Mapped organizational communications and data flows. |

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The organization shall:

1. employ automated mechanisms to scan the network no less than weekly to detect the presence of unauthorized components/devices (including hardware, firmware and software) into the information system; and
2. disable network access by such components/devices and notify designated organizational officials.

The organization shall implement an IT Asset Lifecycle Program, monitor its effectiveness making changes as needed. The organization shall implement six

1. stages for the lifecycle of an IT Asset. The following activities for each stage shall include:
   1. planning - defining supporting processes, setting standards for configuration and retention, aligning purchase plans to business goals, collecting aggregate information on intended purchases, and negotiating volume discounts.
   2. procurement - requisitioning, approving requisitions, ordering, receiving, and validating orders
   3. deployment - tagging assets, entering asset information in a repository, configuring and installing assets including:
      1. disabling unnecessary or insecure services or protocols;
      2. limiting servers to one (1) primary function; and
      3. defining system security parameters to prevent misuse
   4. management - inventory/counting, monitoring usage (some software), managing contracts for maintenance and support, and monitoring age and configuration.
   5. support - adding and changing configurations, repairing devices, and relocating equipment and software.
   6. disposition - removing assets from service, deleting storage contents, disassembling components for reuse, surplusing equipment, terminating contracts, disposing of equipment, and removing assets from active inventory.

The organization provides each update of the inventory identifying assets with sensitive information (e.g., ePHI, PII) to the CIO or information security official, and the senior privacy official on an organization-defined basis, but no less than annually, to support the establishment of information security requirements for all new or modified information systems containing this information.

|  |  |
| --- | --- |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | CIS CSC v6 1.1 |
|  |
|  | CMSRs 2013v2 CM-8 (3) (HIGH) |
|  | CMSRs 2013v2 CM-8 (HIGH) |
|  | CMSRs 2013v2 CM-8(1) (HIGH) |
|  | CMSRs 2013v2 CM-8(2) (HIGH) |
|  | CMSRs 2013v2 CM-8(4) (HIGH) |
|  | CMSRs 2013v2 CM-8(5) (HIGH) |
|  | CMSRs 2013v2 PM-5 (HIGH) |

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CMSRs 2013v2 SE-1 (HIGH)

CRR V2016 AM:G2.Q3

CRR V2016 AM:G2.Q4

CRR V2016 AM:G2.Q5

CRR V2016 AM:G4.Q2

FedRAMP CM-7

FedRAMP CM-8

FedRAMP CM-8(1)

FFIEC IS v2016 A.6.16(b)

FFIEC IS v2016 A.6.16(c)

FFIEC IS v2016 A.6.16(d)

HIPAA § 164.310(d)(1)

HIPAA § 164.310(d)(2)(iii)

IRS Pub 1075 v2014 4.5

IRS Pub 1075 v2014 9.3.5.8

IRS Pub 1075 v2014 9.4.12

IRS Pub 1075 v2014 9.4.18

MARS-E v2 CM-8

MARS-E v2 CM-8(1)

MARS-E v2 PM-5

MARS-E v2 SE-1

NIST Cybersecurity Framework ID.AM-1

NIST Cybersecurity Framework ID.AM-2

NIST Cybersecurity Framework PR.DS-3

NIST SP 800-53 R4 CM-8

NIST SP 800-53 R4 CM-8(1)

NIST SP 800-53 R4 CM-8(3)

NIST SP 800-53 R4 CM-8(5)

NIST SP 800-53 R4 PM-5

NIST SP 800-53 R4 SE-1

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization shall deploy active and passive automated asset discovery tool(s) and use it to build/maintain/reconcile an asset inventory of systems connected to its public and private network(s).

If dynamic host configuration protocol (DHCP) is used to dynamically assign IP addresses, ensure the DHCP server logs are used to help detect unknown systems on the network and improve the organization's asset inventory.

The organization shall update its asset inventories whenever changes to assets occur and new devices are acquired and approved for connection to the network.

The organization uses a software inventory system (tools) to track the version of

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operating system and applications installed on its information systems, including servers, workstations and laptops. The system (tools) shall also be tied into the hardware asset inventory so that all devices and associated software are maintained in a single repository.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall employ automated mechanisms to help maintain an up-to-date, complete, accurate and readily available inventory of information system components.

The organization verifies that all components within the authorization boundary of the information system are not duplicated in other information system inventories.

In addition to the creation of the IT Asset Lifecycle Program, the organization shall identify an owner to manage all organization IT asset inventory and management-related process and procedure documents.

This owner shall ensure that the IT Asset Lifecycle Program shall:

1. identify and document personnel with IT asset roles and responsibilities;
2. provide procurement training to personnel with IT asset roles and responsibilities;
3. provide procurement training material addressing the procedures and activities necessary to fulfill IT asset roles and responsibilities;
4. define the frequency of refresher training; and
5. provide refresher IT asset training in accordance with organization defined frequency, at least on an annual basis.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization employs automated mechanisms to scan the network continuously with a maximum five-minute delay in detection to detect the presence of unauthorized components/devices (including hardware, firmware and software) into the information system; and disable network access by such components/devices and notify designated organizational officials.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall maintain an inventory of system components that are in scope for PCI DSS. Lists of payment card devices shall be kept up to date and include the following:

1. Make, model of device
2. Location of device (for example, the address of the site or facility where the device is located)
3. Device serial number or other method of unique identification.

The inventory of system components and devices in scope for PCI DSS shall

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|  |  |
| --- | --- |
|  | identify all personnel authorized to use the system components and devices. |
|  |  |
| **Control Reference: 07.b Ownership of Assets** | |
|  |  |
| **Control Specification:** | All information and assets associated with information processing systems shall |
|  |
|  | be owned by a designated part of the organization. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | IT Organization and Management Roles and Responsibilities; Media and Assets |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to PCI Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | All information systems shall be documented including a method to accurately and |
|  |
|  | readily determine the assigned owner of responsibility, contact information, and |
|  | purpose (e.g., through labeling, coding, and/or inventory). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.8 |
|  |
|  | AICPA CC3.1 |
|  | AICPA CC5.1 |
|  | CMSRs 2013v2 CM-8 (HIGH) |
|  | CRR V2016 AM:MIL2.Q4 |
|  | CSA CCM v3.0.1 DCS-01 |
|  | CSA CCM v3.0.1 DSI-06 |
|  | FedRAMP CM-7 |
|  | FedRAMP CM-8 |
|  | HIPAA § 164.310(d)(1) |
|  | HIPAA § 164.310(d)(2)(iii) |
|  | IRS Pub 1075 v2014 9.3.5.8 |
|  | MARS-E v2 CM-8 |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST SP 800-53 R4 CM-8 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 12.3.4 |
|  |  |

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**Level 2 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds | |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives | |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions | |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients | |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) | |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) | |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions | |
|  |  | Physician Count: Between 11 and 25 Physicians | |
|  |  | Physician Encounters: Between 60k to 180k Encounters | |
|  |  | Record Count Annual: Between 180k and 725k Records | |
|  |  | Record Total: Between 10 and 60 Million Records | |
|  |  |  |  |
|  | **Level 2** |  |  |
|  | **System Factors:** |  |  |
|  |  |  | |
|  | **Level 2** | Subject to Banking Requirements | |
|  | **Regulatory Factors:** | Subject to CRR V2016 | |
|  |  | Subject to FedRAMP Certification | |
|  |  | Subject to FISMA Compliance | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: | |
|  |  |
|  |  | The asset owner (e.g., individual responsible) shall be responsible for: | |
|  |  | 1. ensuring that information and assets associated with information | |
|  |  |  | processing systems are appropriately classified; and |
|  |  | 2. defining and periodically (at a minimum, annually) reviewing access | |
|  |  |  | restrictions and classifications, taking into account applicable access |
|  |  |  | control policies. |
|  |  | Responsibility may be allocated to: | |
|  |  | 1. | a business process; |
|  |  | 2. a defined set of activities; | |
|  |  | 3. | an application; or |
|  |  | 4. a defined set of data. | |
|  |  | The organization shall create and document the process/procedures the | |
|  |  | organization intends to use to ensure that appropriate software licensing | |
|  |  | agreements for software used by organization employees are in place and that | |
|  |  | the organization is in compliance with those agreements. All information and | |
|  |  | assets associated with information processing systems shall be assigned | |
|  |  | responsibility to a designated part of the organization. All information shall have | |
|  |  | an information owner or owners (e.g., designated individuals responsible) | |
|  |  | established within the organization's lines of business. | |
|  |  | The information owner(s) shall be responsible to: | |
|  |  |  |  |

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1. create an initial information classification, including assigning classification levels to all data;
2. approve decisions regarding controls, access privileges of users, and ongoing decisions regarding information management;
3. ensure the information will be regularly reviewed for value and updates to manage changes to risks due to new threats, vulnerabilities, or changes in the environment;
4. perform, on an organization pre-defined time frame, reclassification based upon business impact analysis, changing business priorities and/or new laws, regulations, and security standards; and
5. follow organization's archive document retention rules regarding proper disposition of all information assets.

When a person(s) designated as information owner no longer has the responsibility due to departure, transfer or reassignment, the organization shall appoint a new information owner(s) in a timely manner to ensure no lapse in accountability and responsibility for information assets.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | CMSRs 2013v2 CM-10 (HIGH) |
|  |
|  | CMSRs 2013v2 CM-8 (HIGH) |
|  | CRR V2016 AM:G2.Q3 |
|  | CRR V2016 AM:G5.Q1 |
|  | CRR V2016 AM:G5.Q2 |
|  | CRR V2016 AM:G5.Q3 |
|  | CRR V2016 AM:G5.Q4 |
|  | CSA CCM v3.0.1 DCS-01 |
|  | CSA CCM v3.0.1 DSI-06 |
|  | FedRAMP CM-10 |
|  | FedRAMP CM-7 |
|  | FedRAMP CM-8 |
|  | FFIEC IS v2016 A.6.6 |
|  | HIPAA § 164.310(d)(2)(iii) |
|  | IRS Pub 1075 v2014 9.3.5.10 |
|  | IRS Pub 1075 v2014 9.4.2 (E.10) |
|  | ISO 27799-2008 7.4.1 |
|  | ISO/IEC 27002:2005 7.1.2 |
|  | ISO/IEC 27002:2005 7.2.1 |
|  | ISO/IEC 27002:2013 8.1.2 |
|  | MARS-E v2 CM-8 |
|  | NIST Cybersecurity Framework ID.AM-5 |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework ID.GV-4 |

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NIST Cybersecurity Framework PR.DS-3

NIST SP 800-53 R4 CM-10

NIST SP 800-53 R4 CM-8

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

All FTI shall have a management official, e.g., an accrediting authority, assigned as an owner to provide responsibility and accountability for its protection.

The agency shall configure control files and data sets to enable the FTI data owner to analyze and review both authorized and unauthorized accesses to a data warehouse.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 07.c Acceptable Use of Assets** | |
|  |  |  |
|  | **Control Specification:** | Rules for the acceptable use of information and assets associated with |
|  |  |
|  |  | information processing systems shall be identified, documented, and |
|  |  | implemented. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Documentation and Records; Media and Assets; |
|  |  | Personnel |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to State of Massachusetts Data Protection Act |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall establish and make readily available to all information |
|  |  |
|  |  | system users, a set of rules that describe their responsibilities and expected |
|  |  | behavior with regards to information and information system usage. Employees, |
|  |  | contractors and third-party users using or having access to the organization's |
|  |  | assets shall be aware of the limits existing for their use of the organization's |
|  |  | information and assets associated with information processing facilities, and |
|  |  | resources. They shall be responsible for their use of any information processing |
|  |  | resources, and of any such use carried out under their responsibility. |
|  |  |  |

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Acceptable use shall address:

1. rules for electronic mail and Internet usages; and
2. guidelines for the use of mobile devices, especially for the use outside the premises of the organization.

The organization shall include in the rules of behavior, explicit restrictions on the use of social media and networking sites, posting information on commercial Websites, and sharing information system account information.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 201 CMR 17.03(2)(c) |
| **Mapping:** | AICPA C1.7 |
|  |
|  | AICPA CC1.4 |
|  | AICPA CC2.3 |
|  | CMSRs 2013v2 AC-20 (HIGH) |
|  | CMSRs 2013v2 PL-4 (HIGH) |
|  | CMSRs 2013v2 PL-4(1) (HIGH) |
|  | CSA CCM v3.0.1 HRS-08 |
|  | FedRAMP AC-20 |
|  | FedRAMP PL-4 |
|  | FedRAMP PL-4(1) |
|  | FFIEC IS v2016 A.6.18(g) |
|  | FFIEC IS v2016 A.6.8(f) |
|  | IRS Pub 1075 v2014 9.3.12.3 |
|  | ISO 27799-2008 7.4.1 |
|  | ISO/IEC 27002:2005 7.1.3 |
|  | ISO/IEC 27002:2013 8.1.3 |
|  | JCAHO IM.02.01.03, EP 1 |
|  | MARS-E v2 AC-20 |
|  | MARS-E v2 PL-4 |
|  | MARS-E v2 PL-4(1) |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST Cybersecurity Framework PR.AT-1 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST Cybersecurity Framework PR.IP-11 |
|  | NIST SP 800-53 R4 AC-20 |
|  | NIST SP 800-53 R4 PL-4 |
|  | NIST SP 800-53 R4 PL-4(1) |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 12.3 |
|  | PCI DSS v3.2 12.3.5 |

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**Objective Name: 07.02 Information Classification**

**Control**

**Objective:** To ensure that information receives an appropriate and consistent level of protection.

**Control Reference: 07.d Classification Guidelines**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Information shall be classified in terms of its value, legal requirements, sensitivity, |
|  |  |
|  |  | and criticality to the organization. |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Audit and Accountability; IT Organization and Management Roles and |
|  |  | Responsibilities; Media and Assets |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | Organizations processing protected health information shall uniformly classify |
|  |  |
|  |  | such data as confidential, which means that there are limitations to its disclosure |
|  |  | within the organization and externally. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | AICPA CC2.4 |
|  | **Mapping:** | AICPA CC3.1 |
|  |  |
|  |  | AICPA CC5.1 |
|  |  | HIPAA § 164.308(a)(1)(ii)(A) |
|  |  | HIPAA § 164.308(a)(1)(ii)(B) |
|  |  | NIST Cybersecurity Framework ID.AM-5 |
|  |  | NIST Cybersecurity Framework PR.DS-5 |
|  |  | NIST SP 800-53 R4 RA-2 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |

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|  |  |  |
| --- | --- | --- |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall categorize (classify) records by type (e.g., accounting |
|  |  | records, database records, transaction logs, audit logs and operational |
|  |  | procedures) with details of storage media and document the results. |
|  |  | Classifications and associated protective controls for information shall take |
|  |  | account of: |
|  |  | 1. business needs for sharing or restricting information; |
|  |  | 2. the business impacts associated with such needs; and |
|  |  | 3. the form of the data, such as raw, aggregate (see 09.p), the product of a |
|  |  | mathematical or statistical process or an analysis report. |
|  |  | Classification guidelines shall include conventions for initial classification and |
|  |  | reclassification over time in accordance with the access control policy. |
|  |  | It shall be the responsibility of the asset owner (see 7.b) to: |
|  |  | 1. define the classification of an asset; |
|  |  | 2. periodically review the classification; |
|  |  | 3. ensure it is kept up to date; and |
|  |  | 4. ensure it is at the appropriate level. |
|  |  | Consideration shall be given to the number of classification categories and the |
|  |  | benefits to be gained from their use. Overly complex schemes can become |
|  |  | cumbersome and uneconomic to use or prove impractical. |
|  |  | The level of protection shall be assessed by analyzing confidentiality, integrity and |
|  |  | availability and any other requirements for the information considered, including |
|  |  | whether or not the information requires the application of encryption to address |
|  |  | confidentiality and integrity requirements (see also 01.x, 06.d and 09.y). |
|  |  | Organizations shall identify, record, and control inventory items that have a high |
|  |  | risk of loss such as computer and electronic equipment and hand tools and |
|  |  | instruments. Personal property meeting the definition of capital assets shall be |
|  |  | capitalized, tagged with an organization identification tag and property control |

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|  |  |
| --- | --- |
|  | number, listed on the capital asset property inventory, and physically inventoried |
|  | at least annually. Discrepancies shall be investigated. |
|  | Documentation that a physical inventory has been taken, for all locations, shall be |
|  | retained in the organization's central accounting office. |
|  | The organization shall create and document process and procedure to affix an |
|  | organization identification tag to: |
|  | 1. newly purchased IT-related assets (Tagging required prior to deployment |
|  | in the computing environment); |
|  | 2. existing non-capital assets (Tagging required within one (1) year); and |
|  | 3. existing capital assets (Tagging required within one (1) year). |
|  | Care shall be taken in interpreting classification labels on documents from other |
|  | organizations, which may have different definitions for the same or similarly |
|  | named labels. |
|  | The organization shall document security categorizations (including supporting |
|  | rationale) in the security plan for the information system. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 13.1 |
| **Mapping:** | CMSRs 2013v2 CM-8 (HIGH) |
|  |
|  | CMSRs 2013v2 RA-2 (HIGH) |
|  | CRR V2016 AM:G3.Q2 |
|  | CRR V2016 AM:G6.Q1 |
|  | CRR V2016 AM:G6.Q2 |
|  | CRR V2016 RM:G2.Q1 |
|  | CSA CCM v3.0.1 DSI-01 |
|  | FedRAMP CM-7 |
|  | FedRAMP RA-2 |
|  | FFIEC IS v2016 A.6.6 |
|  | HIPAA § 164.308(a)(1)(ii)(A) |
|  | HIPAA § 164.308(a)(1)(ii)(B) |
|  | HITRUST SME |
|  | IRS Pub 1075 v2014 9.4.2 (E.10) |
|  | ISO 27799-2008 7.4.1 |
|  | ISO/IEC 27002:2005 7.1.2 |
|  | ISO/IEC 27002:2005 7.2.1 |
|  | ISO/IEC 27002:2013 8.1.1 |
|  | ISO/IEC 27002:2013 8.1.2 |
|  | ISO/IEC 27002:2013 8.2.1 |
|  | JCAHO IM.02.01.03, EP 5 |
|  | MARS-E v2 CM-8 |
|  | MARS-E v2 RA-2 |
|  |  |

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NIST Cybersecurity Framework ID.AM-1

NIST Cybersecurity Framework ID.AM-2

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.GV-4

NIST Cybersecurity Framework ID.RA-3

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST Cybersecurity Framework IR.RA-4

NIST Cybersecurity Framework PR.DS-3

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 CM-8

NIST SP 800-53 R4 CM-8(7)

NIST SP 800-53 R4 RA-2

PMI DSP Framework ID-2

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to Banking Requirements |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | Organizations shall establish a classification schema to differentiate between |
|  |  | various levels of sensitivity and value. Information assets shall be classified |
|  |  | according to their level of sensitivity as follows: |
|  |  | • Level 1: Low-sensitive information. Information that is not protected from |
|  |  | disclosure, that if disclosed will not jeopardize the privacy or security of |
|  |  | employees, clients, and partners. This includes information regularly |
|  |  | made available to the public via electronic, verbal or hard copy. |
|  |  | • Level 2: Sensitive information that may not to be protected from public |
|  |  | disclosure, but if made easily and readily available, the organization shall |
|  |  | follow its disclosure policies and procedures before providing this |

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|  |  |
| --- | --- |
|  | information to external parties. |
|  | • Level 3: Sensitive information intending for limiting business use that can |
|  | be exempt from public disclosure because, among other reasons, such |
|  | disclosure will jeopardize the privacy or security of employees, clients, or |
|  | partners. |
|  | • Level 4: Information that is deemed extremely sensitive and is intended |
|  | for use by named individuals only. This information is typically exempt |
|  | from public disclosure. Users of health information systems shall be |
|  | notified and made aware when the data they are accessing contains |
|  | personal health information. |
|  |  |
| **Level 3** | FFIEC IS v2016 A.6.6 |
| **Control Standard** | HIPAA § 164.308(a)(1)(ii)(A) |
| **Mapping:** | HIPAA § 164.308(a)(1)(ii)(B) |
|  |
|  | HITRUST SME |
|  | ISO/IEC 27002:2005 7.2.1 |
|  | ISO/IEC 27002:2013 8.2.1 |
|  | NIST Cybersecurity Framework ID.AM-5 |
|  | NIST Cybersecurity Framework ID.GV-4 |
|  |  |

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Access controls in a data warehouse are classified in general as follows:

i. General users

1. Limited access users
2. Unlimited access users.

FTI shall always fall into the limited access user's category.

**Control Reference: 07.e Information Labeling and Handling**

**Control Specification:** An appropriate set of procedures for information labeling and handling shall be developed and implemented in accordance with the classification scheme adopted by the organization.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Media and Assets |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to State of Massachusetts Data Protection Act |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code |

**Level 1 Implementation:**

Organizations shall physically and/or electronically label and handle sensitive information commensurate with the risk of the information or document. Care shall

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|  |  | be given to ensure patient information subject to special handling, e.g., HIV test |
|  |  | results and mental health and substance abuse-related records, is identified and |
|  |  | appropriate labeling and handling requirements are expressly defined and |
|  |  | implemented consistent with applicable federal and state legislative and |
|  |  | regulatory requirements and industry guidelines. The labeling shall reflect the |
|  |  | classification according to the rules in the information classification policy. Items to |
|  |  | include are printed reports, screen displays, recorded media (e.g., tapes, disks, |
|  |  | CDs, electronic messages, and file transfers). |
|  |  | The organization may exempt specific types of media or hardware components, |
|  |  | as specified, in writing, by the CIO or his/her designated representative, from |
|  |  | marking as long as the exempted items remain within a secure environment. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | 1 TAC § 390.2(a)(4)(A)(ii) |
|  | **Mapping:** | 1 TAC § 390.2(a)(4)(A)(vi) |
|  |  |
|  |  | 1 TAC § 390.2(a)(4)(A)(vii) |
|  |  | 1 TAC § 390.2(a)(4)(B)(iv) |
|  |  | 201 CMR 17.03(2)(g) |
|  |  | AICPA C1.2 |
|  |  | AICPA C1.3 |
|  |  | AICPA C1.4 |
|  |  | AICPA CC2.4 |
|  |  | AICPA CC5.1 |
|  |  | AICPA CC5.7 |
|  |  | CMSRs 2013v2 MP-3 (HIGH) |
|  |  | CRR V2016 AM:G6.Q3 |
|  |  | CSA CCM v3.0.1 DSI-04 |
|  |  | FedRAMP MP-3 |
|  |  | HIPAA § 164.310(b) |
|  |  | HIPAA § 164.310(d)(1) |
|  |  | HITRUST SME |
|  |  | ISO 27799-2008 7.4.2.2 |
|  |  | MARS-E v2 MP-3 |
|  |  | NIST Cybersecurity Framework PR.DS-5 |
|  |  | NIST Cybersecurity Framework PR.PT-2 |
|  |  | NIST SP 800-53 R4 MP-3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |

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|  |  |
| --- | --- |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to CRR V2016 |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Procedures for information labeling shall cover information assets in physical and |
|  | electronic formats, supported by automated tools. Output from systems containing |
|  | information that is classified as being sensitive or critical shall carry an appropriate |
|  | classification label (in the output). For each classification level, handling |
|  | procedures including the secure processing, storage, transmission, |
|  | declassification, and destruction shall be defined. This shall also include the |
|  | procedures for chain of custody and logging of any security relevant event. |
|  | Agreements with other organizations that include information sharing shall include |
|  | procedures to identify the classification of that information and to interpret the |
|  | classification labels from other organizations. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | CMSRs 2013v2 MP-3 (HIGH) |
|  |
|  | CRR V2016 AM:G6.Q3 |
|  | FedRAMP MP-3 |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.310(c) |
|  | HIPAA § 164.310(d)(1) |
|  | IRS Pub 1075 v2014 9.3.10.3 |
|  | IRS Pub 1075 v2014 9.4.3 |
|  | IRS Pub 1075 v2014 9.4.4 |
|  | ISO/IEC 27002:2005 7.2.2 |
|  | ISO/IEC 27002:2013 16.1.7 |
|  | ISO/IEC 27002:2013 8.2.2 |
|  | ISO/IEC 27002:2013 8.2.3 |
|  | MARS-E v2 MP-3 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST Cybersecurity Framework PR.PT-2 |
|  | NIST SP 800-53 R4 AC-16 |
|  |  |

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|  |  |
| --- | --- |
|  | NIST SP 800-53 R4 MP-3 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 9.6.1 |
|  |  |
| **Level 3 Implementation Requirements** | |
|  |  |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Information belonging to different classification levels shall be logically or |
|  | physically separated. Whenever possible, information assets classified as |
|  | "Critical" shall be stored in a separate, secure area. |
|  | All information systems processing covered information (e.g., PHI) shall inform |
|  | users of the confidentiality of covered information accessible from the system |
|  | (e.g., at start-up or log-in). |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-8 (HIGH) |
| **Mapping:** | FedRAMP AC-8 |
|  |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.310(d)(1) |
|  | IRS Pub 1075 v2014 9.3.1.8 |
|  | ISO 27799-2008 7.4.2.2 |
|  | MARS-E v2 AC-8 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST Cybersecurity Framework PR.PT-2 |
|  | NIST SP 800-53 R4 AC-8 |
|  |  |

**Level FTI Custodians Implementation Requirements**

|  |  |
| --- | --- |
| **Level FTI Custodians** | The agency must label removable media and information system output |
| **Implementation:** |

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containing FTI to indicate the distribution limitations and handling caveats (note IRS Notice 129-A or Notice 129-B are available for this purpose).

Properly label emails that contain FTI (e.g., email subject contains "FTI") to ensure that the recipient is aware that the message content contains FTI.

The agency includes a cover sheet on fax transmissions that explicitly provides guidance to the recipient, which includes:

1. A notification of the sensitivity of the data and the need for protection; and
2. ii. A notice to unintended recipients to telephone the sender - collect, if necessary - to report the disclosure and confirm destruction of the information.

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Freestanding emergency medical facilities shall implement the Health and Human Services Executive Commissioner's minimum standards for the contents,

maintenance, and release of medical records and shall designate an individual to be in charge of the creation, maintenance and disposal of medical records per TAC § 131.53, including the confidentiality, security and safe storage of medical records throughout the record's life cycle.

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**Control Category: 08.0 - Physical and Environmental Security**

**Objective Name: 08.01 Secure Areas**

**Control**

**Objective:** To prevent unauthorized physical access, damage, and interference to the organization's premises and information.

**Control Reference: 08.a Physical Security Perimeter**

**Control Specification:**

Security perimeters (barriers such as walls, card controlled entry gates or manned reception desks) shall be used to protect areas that contain information and information assets.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization; Physical and Facility Security; Third Parties and Contractors |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |

**Level 1 Implementation:**

Computers that store or process covered information shall not be located in areas that are unattended and have unrestricted access by the public. These computers shall be located in rooms with doors and windows that shall be locked when unattended and external protection shall be considered for windows, particularly at ground level (public, sensitive and restricted areas).

Physical barriers shall, where applicable, be built to prevent unauthorized physical access and environmental contamination (sensitive and restricted areas). Any repairs or modifications to the physical components of a facility which are related to security (for example, hardware, walls, doors, and locks) shall be authorized by management, documented and the documentation retained in accordance with the organization's retention policy.

Perimeters of a building or site containing information assets shall be physically sound; there shall be no gaps in the perimeter or areas where a break-in could easily occur. The external walls of the site shall be of solid construction and all external doors shall be protected against unauthorized access with control mechanisms (e.g., bars, alarms, locks etc.).

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |

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**Control Standard Mapping:**

AICPA C1.7

AICPA CC5.5

COBIT 5 DSS05.05

CSA CCM v3.0.1 DCS-02

FFIEC IS v2016 A.6.21(c)

FFIEC IS v2016 A.6.8

HIPAA § 164.310(a)(1)

HIPAA § 164.310(a)(2)(iv)

HIPAA § 164.310(b)

HIPAA § 164.310(c)

ISO/IEC 27002:2005 9.1.1

ISO/IEC 27002:2005 9.2.5

ISO/IEC 27002:2013 11.1.1

ISO/IEC 27002:2013 11.2.6

NIST Cybersecurity Framework DE.CM-2

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework PR.AC-2

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to HITRUST De-ID Framework Requirements |
|  | **Regulatory Factors:** | Subject to PCI Compliance |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Security perimeters, such as any boundaries where security controls are in place |
|  |  | to protect assets from unauthorized access, shall be clearly defined, and the siting |
|  |  | and strength of each of the perimeters shall depend on the security requirements |
|  |  | of the assets within the perimeter (public, sensitive and restricted areas). |
|  |  | A manned reception area or other means to control physical access to the site or |

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|  |  | building shall be in place. Access to sites and buildings shall be restricted to |
|  |  | authorized personnel only (sensitive and restricted areas). Different levels of |
|  |  | scrutiny shall be applied to public areas in which non-employees are expected, |
|  |  | such as: exam rooms, hallways, nurse stations, and communications closet, data |
|  |  | center. |
|  |  | All fire doors on a security perimeter shall be alarmed, monitored, and tested in |
|  |  | conjunction with the walls to establish the required level of resistance in |
|  |  | accordance to suitable regional, national, and international standards. They shall |
|  |  | operate in accordance with local fire code in a fail-safe manner. |
|  |  |  |
|  | **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Control Standard** | AICPA C1.7 |
|  | **Mapping:** | CMSRs 2013v2 MA-2 (HIGH) |
|  |  |
|  |  | CMSRs 2013v2 SC-24 (HIGH) |
|  |  | COBIT 5 DSS05.05 |
|  |  | CSA CCM v3.0.1 DCS-02 |
|  |  | De-ID Framework v1 Public Access to Sensitive Areas: General |
|  |  | FedRAMP MA-2 |
|  |  | FFIEC IS v2016 A.6.8 |
|  |  | HIPAA § 164.310(a)(1) |
|  |  | HIPAA § 164.310(b) |
|  |  | HIPAA § 164.310(c) |
|  |  | IRS Pub 1075 v2014 9.3.9.2 |
|  |  | ISO/IEC 27002:2005 9.1.1 |
|  |  | ISO/IEC 27002:2013 11.1.1 |
|  |  | MARS-E v2 MA-2 |
|  |  | NIST Cybersecurity Framework DE.CM-2 |
|  |  | NIST Cybersecurity Framework DE.CM-7 |
|  |  | NIST Cybersecurity Framework DE.DP-2 |
|  |  | NIST Cybersecurity Framework PR.AC-2 |
|  |  | NIST SP 800-53 R4 MA-2 |
|  |  | NIST SP 800-53 R4 SC-24 |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 9.1 |
|  |  |  |
|  | **Level 3 Implementation Requirements** | |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |

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|  |  |  |
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|  | Record Count Annual: More than 725k Records | |
|  | Record Total: More than 60 Million Records | |
|  |  |  |
| **Level 3** |  |  |
| **System Factors:** |  |  |
|  |  | |
| **Level 3** | Subject to Banking Requirements | |
| **Regulatory Factors:** | Subject to FedRAMP Certification | |
|  | Subject to FISMA Compliance | |
|  | Subject to IRS Pub 1075 Compliance | |
|  | Subject to MARS-E Requirements | |
|  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |
| **Level 3 Implementation:** | Level 2 plus: | |
|  |
|  | Information assets and facilities managed by the organization shall be physically | |
|  | separated from those managed by third parties. | |
|  | Two (2) barriers to access covered information under normal security shall be | |
|  | required: | |
|  | 1. | secured perimeter/locked container; |
|  | 2. locked perimeter/secured interior; or | |
|  | 3. | locked perimeter/security container. |
|  | Covered information shall be containerized in areas where none, other than | |
|  | authorized employees, may have access afterhours. | |
|  |  | |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | AICPA C1.7 | |
| **Mapping:** | CMSRs 2013v2 PE-3 (HIGH) | |
|  |
|  | CSA CCM v3.0.1 DCS-02 | |
|  | FedRAMP PE-3 | |
|  | FFIEC IS v2016 A.8.1(e) | |
|  | HIPAA § 164.310(a)(1) | |
|  | HIPAA § 164.310(b) | |
|  | HIPAA § 164.310(c) | |
|  | IRS Pub 1075 v2014 4.2 | |
|  | IRS Pub 1075 v2014 4.3 | |
|  | IRS Pub 1075 v2014 4.5 | |
|  | IRS Pub 1075 v2014 9.3.11.3 | |
|  | ISO 27799-2008 7.6.1.1 | |
|  | ISO/IEC 27002:2005 9.1.1 | |
|  | ISO/IEC 27002:2013 11.1.1 | |
|  | MARS-E v2 PE-3 | |
|  | NIST Cybersecurity Framework PR.AC-2 | |
|  | NIST SP 800-53 R4 PE-3 | |
|  |  |  |

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**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Minimum protection standards require two (2) physical barriers between FTI and any individual not authorized to access FTI.

The perimeter is enclosed by slab-to-slab walls constructed of durable materials and supplemented by periodic inspection. Any lesser-type partition must be supplemented by electronic intrusion detection and fire detection systems. All doors entering the space must be locked in accordance with Locking Systems for Secured Areas. In the case of a fence/gate, the fence must have intrusion detection devices or be continually guarded, and the gate must be either guarded or locked with intrusion alarms.

A security room is a room that has been constructed to resist forced entry. The entire room must be enclosed by slab-to-slab walls constructed of approved materials (e.g., masonry brick, concrete) and supplemented by periodic inspection, and entrance must be limited to specifically authorized personnel. Door hinge pins must be non-removable or installed on the inside of the room.

FTI must be containerized in areas where no persons, other than authorized employees or authorized contractors, may have access afterhours.

A security guard, custodial services worker or landlord may have access to a locked building or a locked room if FTI is in a locked container. If FTI is in a locked room, but not in a locked container, the guard, janitor or landlord may have a key to the building but not to the room.

During business hours, if authorized personnel serve as the second barrier between FTI and unauthorized individuals, the authorized personnel must wear an identification badge or credential clearly displayed, preferably worn above the waist.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 08.b Physical Entry Controls** | |
|  |  |  |
|  | **Control Specification:** | Secure areas shall be protected by appropriate entry controls to ensure that only |
|  |  |
|  |  | authorized personnel are allowed access. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authentication; Authorization; Documentation and Records; Monitoring; Physical |
|  |  | and Facility Security; Third Parties and Contractors; User Access |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |

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| **Level 1** | Subject to Texas Health and Safety Code | |
| **Regulatory Factors:** |
|  |  |
|  |  |  |
| **Level 1 Implementation:** | At a minimum, the organization: | |
|  |
|  | 1. | develops, approves and maintains a list of individuals with authorized |
|  |  | access to the facility where the information system resides; |
|  | 2. | issues authorization credentials for facility access; and |
|  | 3. | reviews the access list and authorization credentials periodically but no |
|  |  | less than quarterly, |
|  | 4. | removes individuals from the facility access list when access is no longer |
|  |  | required. |
|  | For facilities where the information system resides, the organization shall enforce | |
|  | physical access authorizations at defined entry/exit points to the facility where the | |
|  | information system resides, maintain physical access audit logs, and provide | |
|  | security safeguards the organization determines are necessary for areas officially | |
|  | designated as publicly accessible. | |
|  | Except those areas officially designated as publicly accessible, the organization | |
|  | shall maintain visitor access logs for facilities where information systems reside | |
|  | for at least three (3) months and review visitor records periodically but no less | |
|  | than monthly. | |
|  | Visitor records shall contain: | |
|  | 1. | name and organization of the person visiting; |
|  | 2. | signature of the visitor; |
|  | 3. | form of identification; |
|  | 4. | date of access; |
|  | 5. | time of entry and departure; |
|  | 6. | purpose of visit; and |
|  | 7. | name and organization of person visited. |
|  | Access to areas where sensitive information (e.g., covered information, payment | |
|  | card data) is processed or stored shall be controlled and restricted to authorized | |
|  | persons only. All visitors shall be escorted and supervised (their activities | |
|  | monitored) unless their access has been previously approved. | |
|  | Third-party support service personnel shall be granted restricted access to secure | |
|  | areas or covered information processing facilities only when required. This access | |
|  | shall be authorized and monitored. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 21 CFR Part 11.10(d) | |
|  |
|  | AICPA CC5.5 | |
|  | CMSRs 2013v2 MA-2 (HIGH) | |
|  | CMSRs 2013v2 PE-2 (HIGH) | |
|  | CMSRs 2013v2 PE-3 (HIGH) | |
|  | CMSRs 2013v2 PE-8 (HIGH) | |
|  |  |  |

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CMSRs 2014v2 PE-8 (HIGH)

COBIT 5 DSS05.05

CSA CCM v3.0.1 DCS-07

CSA CCM v3.0.1 DCS-09

De-ID Framework v1 Visitor Access: Policy

FedRAMP MA-2

FedRAMP PE-2

FedRAMP PE-3

FFIEC IS v2016 A.6.8

FFIEC IS v2016 A.8.1(e)

HIPAA § 164.310(a)(1)

HIPAA § 164.310(a)(2)(iii)

HIPAA § 164.310(b)

HIPAA § 164.310(c)

IRS Pub 1075 v2014 4.2

IRS Pub 1075 v2014 4.3.1

IRS Pub 1075 v2014 9.3.11.2

IRS Pub 1075 v2014 9.3.11.3

IRS Pub 1075 v2014 9.3.11.7

ISO/IEC 27002:2005 9.1.2

ISO/IEC 27002:2013 11.1.2

MARS-E v2 MA-2

MARS-E v2 PE-2

MARS-E v2 PE-3

MARS-E v2 PE-7(1)

MARS-E v2 PE-8

NIST Cybersecurity Framework DE.CM-2

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework DE.DP-2

NIST Cybersecurity Framework PR.AC-2

NIST SP 800-53 R4 MA-2

NIST SP 800-53 R4 PE-2

NIST SP 800-53 R4 PE-3

NIST SP 800-53 R4 PE-8

NRS 603A.215.1

PCI DSS v3.2 9.4

PCI DSS v3.2 9.4.1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

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|  | **Level 2** | Bed: Between 200 and 750 Beds |

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|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to PCI Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
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|  |  | A visitor log shall be required including: |
|  |  | 1. the date and time of entry and departure; |
|  |  | 2. the visitor's name; |
|  |  | 3. the organization represented; and |
|  |  | 4. the employee authorizing physical access. |
|  |  | The log shall be reviewed no less than monthly and upon occurrence of |
|  |  | organization-defined security events, and retained for at least two (2) years in |
|  |  | accordance with the organization's retention policy. Visitors shall only be granted |
|  |  | access for specific and authorized purposes and shall be issued with instructions |
|  |  | on the security requirements of the area and on emergency procedures. |
|  |  | Authentication controls (e.g., access control card plus PIN) shall be used to |
|  |  | authorize and validate all access. Access must be authorized and based on |
|  |  | individual job function. An audit trail of all access shall be securely maintained. |
|  |  | The organization shall ensure onsite personnel and visitors can be easily |
|  |  | distinguished. All employees, contractors, third-party users and all visitors shall be |
|  |  | required to wear some form of visible identification and shall immediately notify |
|  |  | security personnel if they encounter unescorted visitors and anyone not wearing |
|  |  | visible identification. Visitors shall be given a badge or access device that |
|  |  | identifies them as non-employees, and they shall be required to surrender the |
|  |  | badge or device before leaving the facility or upon expiration. The organization |
|  |  | shall ensure onsite personnel and visitor identification (e.g., badges) are revoked |
|  |  | or terminated when expired or when access is no longer authorized, and all |
|  |  | physical access mechanisms, such as keys, access cards and combinations, are |
|  |  | returned disabled or changed. Identification should also be updated when access |
|  |  | requirements change to ensure their status can be easily distinguished. |
|  |  | Access rights to secure areas shall be regularly reviewed, at a minimum every |
|  |  | ninety (90) days, and updated or revoked when necessary. |
|  |  | A restricted area, security room, or locked room is used to control access to areas |

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containing covered information. These areas will be controlled accordingly.

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| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | | |
| **Control Standard** | 21 CFR Part 11.10(d) | | |
| **Mapping:** | CMSRs 2013v2 PE-3 (HIGH) | | |
|  |
|  | CMSRs 2013v2 PE-6 (HIGH) | | |
|  | CMSRs 2013v2 PE-8 (HIGH) | | |
|  | COBIT 5 DSS05.05 | |  |
|  | De-ID Framework v1 | | Physical Access: Identification Policy |
|  | De-ID Framework v1 | | Physical Access: Inappropriate Use |
|  | De-ID Framework v1 | | Physical Security: General |
|  | FedRAMP PE-3 |  |  |
|  | FedRAMP PE-8 |  |  |
|  | FFIEC IS v2016 | A.6.8 | |
|  | FFIEC IS v2016 | A.8.1(e) | |

HIPAA § 164.310(a)(1)

HIPAA § 164.310(a)(2)(iii)

HIPAA § 164.310(b)

HIPAA § 164.310(c)

IRS Pub 1075 v2014 4.3.2

IRS Pub 1075 v2014 9.3.11.3

IRS Pub 1075 v2014 9.3.11.6

ISO 27799-2008 7.6.1.2

ISO/IEC 27002:2005 9.1.2

ISO/IEC 27002:2013 11.1.2

JCAHO IM.02.01.03, EP 5

MARS-E v2 PE-3

MARS-E v2 PE-6

MARS-E v2 PE-8

NIST Cybersecurity Framework DE.CM-2

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework DE.DP-2

NIST Cybersecurity Framework PR.AC-2

NIST Cybersecurity Framework PR.PT-1

NIST Cybersecurity Framework RS.CO-3

NIST SP 800-53 R4 PE-3

NIST SP 800-53 R4 PE-6

NIST SP 800-53 R4 PE-8

NRS 603A.215.1

PCI DSS v3.2 9.1

PCI DSS v3.2 9.2

PCI DSS v3.2 9.3

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| --- | --- | --- |
|  | PCI DSS v3.2 | 9.4 |
|  | PCI DSS v3.2 | 9.4.2 |
|  | PCI DSS v3.2 | 9.4.3 |
|  | PCI DSS v3.2 | 9.4.4 |
|  |  |  |

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | Doors to internal secure areas shall lock automatically, implement a door delay |
|  |  | alarm, and be equipped with electronic locks (e.g., keypad, card swipe). |
|  |  | The organization shall inventory physical access devices within every ninety (90) |
|  |  | days. Combinations and keys for organization-defined high-risk entry/exit points |
|  |  | shall be changed within every three hundred and sixty-five (365) days and when |
|  |  | keys are lost or combinations are compromised. |
|  |  | Intruder detection systems shall be installed to national, regional or international |
|  |  | standards and regularly tested, at a minimum annually, to cover all external doors |
|  |  | and accessible windows. Unoccupied areas shall be alarmed at all times. Cover |
|  |  | shall also be provided for other areas (e.g., computer room or communications |
|  |  | rooms), specifically, sensitive and restricted areas. |
|  |  | The organization shall monitor and investigate notifications from physical intrusion |
|  |  | alarms and surveillance equipment. |
|  |  | Alarms are regularly tested to ensure proper operation. |
|  |  | The organization maintains an electronic log of alarm system events and regularly |

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|  | reviews the logs no less than monthly. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 21 CFR Part 11.10(d) |
| **Mapping:** | CMSRs 2013v2 PE-3 (HIGH) |
|  |
|  | CMSRs 2013v2 PE-3(1) (HIGH) |
|  | CMSRs 2013v2 PE-6(1) (HIGH) |
|  | De-ID Framework v1 Perimeter Security (Alarms): General |
|  | De-ID Framework v1 Perimeter Security (Alarms): Logging |
|  | FedRAMP PE-3 |
|  | FedRAMP PE-6 |
|  | FedRAMP PE-6(1) |
|  | FFIEC IS v2016 A.6.8 |
|  | HIPAA § 164.310(a)(1) |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.310(c) |
|  | IRS Pub 1075 v2014 4.3 |
|  | IRS Pub 1075 v2014 4.3.2 |
|  | IRS Pub 1075 v2014 4.3.3 |
|  | IRS Pub 1075 v2014 9.3.11.3 |
|  | IRS Pub 1075 v2014 9.3.11.6 |
|  | ISO/IEC 27002:2005 9.1.1 |
|  | ISO/IEC 27002:2013 11.1.1 |
|  | MARS-E v2 PE-3 |
|  | MARS-E v2 PE-6(1) |
|  | NIST Cybersecurity Framework DE.CM-2 |
|  | NIST Cybersecurity Framework DE.DP-2 |
|  | NIST Cybersecurity Framework DE.DP-3 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework RS.AN-1 |
|  | NIST Cybersecurity Framework RS.CO-3 |
|  | NIST SP 800-53 R4 PE-3 |
|  | NIST SP 800-53 R4 PE-3(1) |
|  | NIST SP 800-53 R4 PE-6(1) |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization enforces physical access authorizations to the information system in addition to the physical access controls for the facility at defined physical spaces (defined in the applicable security plan) containing a concentration of information system components (e.g., server rooms, media

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storage areas, data and communications centers, etc.).

The organization shall employ automated mechanisms to facilitate the maintenance and review of access records.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

A visitor access log containing specific data elements will be used to authenticate and authorize visitor's access to any facility where FTI resides, either electronically or in paper, at the location where the outside (2nd) barrier is breached.

The organization enforces physical access authorizations to the information system in addition to the physical access controls for the facility at spaces where FTI is received, processed, stored, or transmitted.

Unauthorized access to areas containing FTI during duty and non-duty hours must be denied. This can be done utilizing a combination of methods: secured or locked perimeter, secured area or containerization.

The physical security and control of computers and electronic media must be addressed. Computer operations must be in a secure area with restricted access.

A restricted area visitor log will be maintained at a designated entrance to the restricted area, and all visitors (persons not assigned to the area) entering the area shall be directed to the designated entrance. The entry control monitor should verify the identity of visitors by comparing the name and signature entered into the register with some type of photo identification card.

Visitor access records include, for example, name/organization of the person visiting, signature of the visitor, form(s) of identification, date of access, time of entry and departure, purpose of visit, and name/organization of person visited.

Whenever cleaning and maintenance personnel are working in restricted areas containing FTI, the cleaning and maintenance activities must be performed in the presence of an authorized employee.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization authorizes physical access to the facility where the information system resides and information is received, processed, stored, or transmitted based on position or role.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall ensure visitors are authorized before entering, and escorted at all times within, areas where cardholder data is processed or maintained.

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|  |  |
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|  | Visitor logs shall include the name of the onsite personnel (workforce member) |
|  | authorizing physical access. |
|  |  |
| **Control Reference: 08.c Securing Offices, Rooms, and Facilities** | |
|  |  |
| **Control Specification:** | Physical security for offices, rooms, and facilities shall be designed and applied. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Physical and Facility Security |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Account shall be taken of relevant health and safety regulations and standards |
|  |
|  | when securing facilities. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | AICPA CC5.5 |
| **Mapping:** | HIPAA § 164.310(a)(1) |
|  |
|  | HIPAA § 164.310(a)(2)(iii) |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.310(c) |
|  | ISO/IEC 27002:2005 9.1.3 |
|  | ISO/IEC 27002:2013 11.1.3 |
|  | NIST Cybersecurity Framework DE.DP-2 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  |  |

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |

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| --- | --- |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to HITRUST De-ID Framework Requirements |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Critical facilities shall be sited to avoid access by the public. For particularly |
|  | sensitive and restricted facilities (e.g., data centers and communication closets), |
|  | buildings shall be unobtrusive and give minimum indication of their purpose, with |
|  | no obvious signs outside or inside the building identifying the presence of |
|  | information processing activities. Directories and internal telephone books |
|  | identifying locations of covered information processing facilities shall not be |
|  | readily accessible by the public. |
|  | Video cameras or other access control mechanisms shall be implemented and |
|  | secured to monitor individual physical access to sensitive areas. These devices |
|  | shall be protected from tampering or disabling of the device. The results of the |
|  | mechanisms shall be reviewed regularly and correlated with other entries and |
|  | access control information (e.g., audit trails, sign-in sheets, authorization levels, |
|  | maintenance logs). The information from cameras or other access control |
|  | mechanisms shall be stored for at least three (3) months in accordance with the |
|  | organization's retention policy. |
|  | Automated mechanisms shall be used to recognize potential intrusions and initiate |
|  | designated response actions. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PE-3 (HIGH) |
| **Mapping:** | CMSRs 2013v2 PE-6(2) (HIGH) |
|  |
|  | COBIT 4.1 DS5.7 |
|  | COBIT 5 DSS05.05 |
|  | CSA CCM v3.0.1 DCS-06 |
|  | De-ID Framework v1 Public Access to Sensitive Areas: General |
|  | De-ID Framework v1 Video Surveillance: General |
|  | FedRAMP PE-3 |
|  | FFIEC IS v2016 A.6.8 |
|  | FFIEC IS v2016 A.8.1(e) |
|  | HIPAA § 164.310(a)(1) |
|  | HIPAA § 164.310(b) |
|  | HIPAA § 164.310(c) |
|  | IRS Pub 1075 v2014 9.3.11.3 |
|  | ISO 27799:2008 7.6.1.2 |
|  |  |

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ISO/IEC 27002:2005 9.1.3

ISO/IEC 27002:2013 11.1.3

MARS-E v2 PE-3

NIST Cybersecurity Framework DE.CM-2

NIST Cybersecurity Framework DE.CM-3

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework PR-AC-2

NIST SP 800-53 R4 PE-3

NIST SP 800-53 R4 PE-6(2)

NRS 603A.215.1

PCI DSS v3.2 9.1.1

**Control Reference: 08.d Protecting Against External and Environmental Threats**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Physical protection against damage from fire, flood, earthquake, explosion, civil |
|  |  |
|  |  | unrest, and other forms of natural or man-made disaster shall be designed and |
|  |  | applied. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Physical and Facility Security; Third Parties and |
|  |  | Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to Texas Health and Safety Code |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall develop, disseminate, and review/update annually: |
|  |  |
|  |  | 1. a formal, documented physical and environmental protection policy that |
|  |  | addresses purpose, scope, roles, responsibilities, management |
|  |  | commitment, coordination among organizational entities, and compliance; |
|  |  | and |
|  |  | 2. formal, documented procedures to facilitate the implementation of the |
|  |  | physical and environmental protection policy and associated physical and |
|  |  | environmental protection controls. |
|  |  | The following controls shall be implemented to avoid damage from fire, flood, |
|  |  | earthquake, explosion, civil unrest, and other forms of natural or man-made |
|  |  | disaster: |
|  |  | 1. appropriate fire extinguishers shall be located throughout the facility, and |

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|  |  |  |
| --- | --- | --- |
|  |  | shall be no more than fifty (50) feet away from critical electrical |
|  |  | components; and |
|  |  | 2. fire detectors (e.g., smoke or heat activated) shall be installed on and in |
|  |  | the ceilings and floors. |
|  |  | Fire authorities shall be automatically notified when a fire alarm is activated. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | AICPA A1.2 |
|  | **Mapping:** | AICPA CC3.1 |
|  |  |
|  |  | AICPA CC7.1 |
|  |  | CMSRs 2013v2 PE-1 (HIGH) |
|  |  | CMSRs 2013v2 PE-1 3(1)(HIGH) |
|  |  | CMSRs 2013v2 PE-1 3(HIGH) |
|  |  | CSA CCM v3.0.1 BCR-05 |
|  |  | FedRAMP PE-1 |
|  |  | FedRAMP PE-13(2) |
|  |  | FFIEC IS v2016 A.6.8 |
|  |  | HIPAA § 164.310(a)(1) |
|  |  | HIPAA § 164.310(a)(2)(ii) |
|  |  | HIPAA § 164.310(a)(2)(iii) |
|  |  | IRS Pub 1075 v2014 9.3.11.1 |
|  |  | ISO 27799-2008 7.6.1.2 |
|  |  | ISO/IEC 27002:2005 9.1.4 |
|  |  | ISO/IEC 27002:2013 11.1.4 |
|  |  | MARS-E v2 PE-1 |
|  |  | MARS-E v2 PE-13 |
|  |  | MARS-E v2 PE-13(1) |
|  |  | NIST Cybersecurity Framework PR.IP-5 |
|  |  | NIST SP 800-53 R4 PE-1 |
|  |  | NIST SP 800-53 R4 PE-13 |
|  |  | NIST SP 800-53 R4 PE-13(1) |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  | PMI DSP Framework PR.DS-3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |

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|  |  |  |
| --- | --- | --- |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Any security threats presented by neighboring premises shall be identified (e.g., a |
|  |  | fire in a neighboring building, water leaking from the roof or in floors below ground |
|  |  | level, or an explosion in the street). |
|  |  | Fire prevention training shall be included in the regular training programs provided |
|  |  | to the organization personnel. |
|  |  | Appropriate fire suppression systems (e.g., sprinklers, gas) shall be implemented |
|  |  | throughout the building and within secure areas containing information processing |
|  |  | devices. For facilities not staffed continuously, these suppression systems shall |
|  |  | be automated. |
|  |  | The building's HVAC system shall be configured to automatically shut down upon |
|  |  | fire detection. |
|  |  |  |
|  | **Level 2** | CMSRs 2013v2 AT-3(1) (HIGH) |
|  | **Control Standard** | CMSRs 2013v2 PE-1 3(HIGH) |
|  | **Mapping:** | CMSRs 2013v2 PE-13(3) (HIGH) |
|  |  |
|  |  | CSA CCM v3.0.1 BCR-05 |
|  |  | FedRAMP PE-13(3) |
|  |  | FFIEC IS v2016 A.6.8 |
|  |  | HIPAA § 164.310(a)(1) |
|  |  | HIPAA § 164.310(a)(2)(ii) |
|  |  | ISO/IEC 27002:2013 11.1.4 |
|  |  | ISO/IEC 27002:2013 9.1.4 |
|  |  | MARS-E v2 AT-3 |
|  |  | MARS-E v2 PE-13 |
|  |  | MARS-E v2 PE-13(3) |
|  |  | NIST Cybersecurity Framework PR.IP-5 |
|  |  | NIST SP 800-53 R4 AT-3(1) |
|  |  | NIST SP 800-53 R4 PE-13 |
|  |  | NIST SP 800-53 R4 PE-13(3) |
|  |  |  |
|  | **Level 3 Implementation Requirements** | |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |

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|  |  |
| --- | --- |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Water detectors shall be located in the dropped ceilings and raised floors to detect |
|  | leaks or possible flooding. The organization shall protect the information systems |
|  | from damage resulting from water leakage by providing master shutoff or isolation |
|  | valves that are accessible, working properly, and known to key personnel. |
|  | Fire suppression and detection devices/systems that are supported by an |
|  | independent energy source are implemented and maintained. |
|  |  |
| **Level 3** | CMSRs 2013v2 PE-13 (HIGH) |
| **Control Standard** | CMSRs 2013v2 PE-13(1) (HIGH) |
| **Mapping:** | CMSRs 2013v2 PE-13(2) (HIGH) |
|  |
|  | CMSRs 2013v2 PE-15 (HIGH) |
|  | CMSRs 2013v2 PE-15(1) (HIGH) |
|  | CSA CCM v3.0.1 BCR-05 |
|  | FedRAMP PE-13 |
|  | FedRAMP PE-15 |
|  | FFIEC IS v2016 A.6.8 |
|  | HIPAA § 164.310(a)(1) |
|  | HIPAA § 164.310(a)(2)(ii) |
|  | MARS-E v2 PE-13 |
|  | MARS-E v2 PE-13(1) |
|  | MARS-E v2 PE-13(2) |
|  | MARS-E v2 PE-15 |
|  | NIST Cybersecurity Framework PR.IP-5 |
|  | NIST SP 800-53 R4 PE-13 |
|  | NIST SP 800-53 R4 PE-13(1) |
|  |  |

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NIST SP 800-53 R4 PE-13(2)

NIST SP 800-53 R4 PE-15

NIST SP 800-53 R4 PE-15(1)

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization employs automated mechanisms to detect the presence of water in the vicinity of the information system and alert defined personnel or roles (defined in the applicable security plan).

Fire suppression devices/systems shall activate automatically and automatically notify the organization and emergency responders in the event of a fire.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization employs fire suppression devices/systems for the information system that activate automatically and notify the organization-specified personnel and emergency responders in the event of a fire.

**Control Reference: 08.e Working in Secure Areas**

**Control Specification:** Physical protection and guidelines for working in secure areas shall be designed and applied.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Personnel; Physical and Facility Security |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  | Subject to IRS Pub 1075 Compliance |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Level 1 Implementation:** | The arrangements for working in secure areas shall include controls for the |
|  |
|  | employees, contractors, and third-party users working in the secure area, as well |
|  | as other third-party activities taking place there. |
|  | Personnel shall only be aware of the existence of, or activities within, a secure |
|  | area on a need-to-know basis. Unsupervised working in secure areas shall be |
|  | avoided both for safety reasons and to prevent opportunities for malicious |
|  | activities. Vacant secure areas shall be physically locked and periodically |
|  | checked. |
|  | Photographic, video, audio or other recording equipment such as cameras in |
|  | mobile devices, shall not be allowed unless otherwise authorized. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | AICPA CC5.5 |
| **Mapping:** | HIPAA § 164.310(a)(2)(iii) |
|  |
|  | HIPAA § 164.310(c) |
|  | ISO 27799-2008 7.6.1.2 |
|  | ISO/IEC 27002:2005 9.1.5 |
|  | ISO/IEC 27002:2013 11.1.5 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework PR.IP-5 |
|  |  |

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

All computers, electronic media, and removable media containing FTI, must be kept in a secured area under the immediate protection and control of an authorized employee or locked up. When not in use, the media must be promptly returned to a proper storage area/container.

**Control Reference: 08.f Public Access, Delivery, and Loading Areas**

**Control Specification:** Access points such as delivery and loading areas and other points where unauthorized persons may enter the premises shall be controlled and, if possible, isolated from information processing facilities to avoid unauthorized access.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Media and Assets; Physical and Facility Security; User Access |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |  | Subject to IRS Pub 1075 Compliance |

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|  |  |  |
| --- | --- | --- |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | Access to a delivery and loading area from outside of the building shall be |
|  |  |
|  |  | restricted to identified and authorized personnel. The delivery and loading area |
|  |  | shall be designed so that supplies can be unloaded without delivery personnel |
|  |  | gaining access to other parts of the building. The external doors of a delivery and |
|  |  | loading area shall be secured when the internal doors are opened. |
|  |  | Incoming material shall be registered in accordance with asset management |
|  |  | procedures on entry to the site. Incoming and outgoing shipments shall be |
|  |  | physically segregated, where possible. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Control Standard** | AICPA CC5.5 |
|  | **Mapping:** | CMSRs 2013v2 PE-16 (HIGH) |
|  |  |
|  |  | CSA CCM v3.0.1 DCS-08 |
|  |  | FedRAMP PE-16 |
|  |  | IRS Pub 1075 v2014 4.3.1 |
|  |  | IRS Pub 1075 v2014 9.3.11.8 |
|  |  | ISO/IEC 27002:2005 9.1.6 |
|  |  | ISO/IEC 27002:2013 11.1.6 |
|  |  | MARS-E v2 PE-16 |
|  |  | NIST Cybersecurity Framework PR.AC-2 |
|  |  | NIST Cybersecurity Framework PR.IP-5 |
|  |  | NIST SP 800-53 R4 PE-16 |
|  |  | NIST SP 800-53 R4 PE-3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Incoming material shall be inspected for potential threats before this material is |
|  | moved from the delivery and loading area to the point of use. |
|  |  |
| **Level 2** | CSA CCM v3.0.1 DCS-08 |
| **Control Standard** | ISO 27799-2008 7.6.1.3 |
| **Mapping:** | ISO/IEC 27002:2005 9.1.6 |
|  |
|  | ISO/IEC 27002:2013 11.1.6 |
|  | NIST Cybersecurity Framework PR.IP-5 |
|  |  |

**Objective Name: 08.02 Equipment Security**

**Control**

**Objective:** To prevent loss, damage, theft or compromise of assets and interruption to the organization's activities.

**Control Reference: 08.g Equipment Siting and Protection**

**Control Specification:** Equipment shall be sited or protected to reduce the risks from environmental threats and hazards, and opportunities for unauthorized access.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Media and Assets; Physical and Facility Security |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

Guidelines for eating, drinking, and smoking in proximity to information assets shall be established.

Lightning protection shall be applied to all buildings, and lightning protection filters (e.g., surge protectors) shall be fitted to all incoming power and communications lines.

Information assets handling covered information shall be positioned and the viewing angle restricted to reduce the risk of information being viewed by unauthorized persons during their use. Storage devices are secured to avoid

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|  |  |
| --- | --- |
|  | unauthorized access. |
|  | Device locks shall be distributed and implemented for equipment containing |
|  | covered information. Types of locks include, but are not limited to, slot locks, port |
|  | controls, peripheral switch controls and cable traps. |
|  | The organization shall restrict physical access to wireless access points, |
|  | gateways, handheld devices, networking/communications hardware, and |
|  | telecommunication lines. |
|  | The organization plans the location or site of the facility where the information |
|  | system resides with regard to physical and environmental hazards and, for |
|  | existing facilities, considers the physical and environmental hazards in its risk |
|  | mitigation strategy. |
|  | Controls shall be implemented to minimize the risk of potential physical threats |
|  | including theft, fire, explosives, smoke, water (or water supply failure), dust, |
|  | vibration, chemical effects, electrical supply interference, communications |
|  | interference, electromagnetic radiation, and vandalism. |
|  | The organization shall position information system components within the facility |
|  | to minimize potential damage from physical and environmental hazards and to |
|  | minimize the opportunity for unauthorized access. |
|  | The following controls shall be implemented to avoid damage from fire, flood, |
|  | earthquake, explosion, civil unrest, and other forms of natural or man-made |
|  | disaster: |
|  | 1. Hazardous or combustible materials shall be stored at a safe distance |
|  | from a secure area; |
|  | 2. bulk supplies such as stationery shall not be stored within a secure area; |
|  | and |
|  | 3. fallback equipment and back-up media shall be stored at a safe distance |
|  | to avoid damage from disaster affecting the main site. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA A1.2 |
|  |
|  | AICPA CC5.5 |
|  | AICPA CC7.1 |
|  | CMSRs 2013v2 AC-18 (HIGH) |
|  | CMSRs 2013v2 PE-1 (HIGH) |
|  | CMSRs 2013v2 PE-18 (HIGH) |
|  | CMSRs 2013v2 PE-18(1) (HIGH) |
|  | CSA CCM v3.0.1 BCR-06 |
|  | De-ID Framework v1 Physical and Environmental Security: General |
|  | De-ID Framework v1 Physical Security: General |
|  | FedRAMP AC-18 |
|  | FedRAMP PE-1 |
|  | HIPAA § 164.310(a)(1) |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  |  | HIPAA § 164.310(a)(2)(ii) |
|  |  | HIPAA § 164.310(a)(2)(iii) |
|  |  | HIPAA § 164.310(c) |
|  |  | HITRUST SME |
|  |  | IRS Pub 1075 v2014 4.3 |
|  |  | IRS Pub 1075 v2014 4.3.2 |
|  |  | IRS Pub 1075 v2014 9.3.11.1 |
|  |  | IRS Pub 1075 v2014 9.3.11.10 |
|  |  | ISO/IEC 27002:2005 9.1.4 |
|  |  | ISO/IEC 27002:2005 9.2.1 |
|  |  | ISO/IEC 27002:2013 11.1.4 |
|  |  | ISO/IEC 27002:2013 11.2.1 |
|  |  | MARS-E v2 AC-18 |
|  |  | MARS-E v2 PE-1 |
|  |  | MARS-E v2 PE-18 |
|  |  | NIST Cybersecurity Framework PR.IP-5 |
|  |  | NIST SP 800-53 R4 AC-18 |
|  |  | NIST SP 800-53 R4 PE-1 |
|  |  | NIST SP 800-53 R4 PE-13 |
|  |  | NIST SP 800-53 R4 PE-15 |
|  |  | NIST SP 800-53 R4 PE-18 |
|  |  | NIST SP 800-53 R4 PE-18(1) |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 9.1.3 |
|  |  | PCI DSS v3.2 9.9 |
|  |  | PCI DSS v3.2 9.9.2 |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Equipment shall be sited to minimize unnecessary access into work areas. |
|  | Environmental conditions, such as temperature and humidity, shall be monitored |
|  | for conditions which could adversely affect the operation of information assets. |
|  | Items requiring special protection shall be isolated to reduce the general level of |
|  | protection required. |
|  | The use of special protection methods, such as keyboard membranes, shall be |
|  | implemented for equipment in industrial environments. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PE-14(HIGH) |
| **Mapping:** | CMSRs 2013v2 PE-18(HIGH) |
|  |
|  | CSA CCM v3.0.1 BCR-06 |
|  | FedRAMP PE-14 |
|  | FedRAMP PE-14(2) |
|  | HIPAA § 164.310(a)(1) |
|  | HIPAA § 164.310(a)(2)(ii) |
|  | IRS Pub 1075 v2014 4.3.2 |
|  | IRS Pub 1075 v2014 9.3.11.10 |
|  | IRS Pub 1075 v2014 9.4.4 |
|  | IRS Pub 1075 v2014 9.4.9 |
|  | ISO 27799-2008 7.6.2.1 |
|  | ISO/IEC 27002:2005 9.2.1 |
|  | ISO/IEC 27002:2013 11.2.1 |
|  | MARS-E v2 PE-14 |
|  | MARS-E v2 PE-18 |
|  | NIST Cybersecurity Framework PR.IP-5 |
|  | NIST SP 800-53 R4 PE-14 |
|  | NIST SP 800-53 R4 PE-18 |
|  |  |

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The service provider measures temperature at server inlets and humidity levels by dew point.

**Level FTI Custodians Implementation Requirements**

|  |  |
| --- | --- |
| **Level FTI Custodians** | Multifunction Devices (MFDs) are locked with a mechanism to prevent physical |
| **Implementation:** |

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access to the hard disk.

Place fax machines in a secured area.

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall periodically inspect payment card device surfaces to detect tampering (for example, addition of card skimmers to devices), or substitution (for example, by checking the serial number or other device characteristics to verify it has not been swapped with a fraudulent device).

|  |  |
| --- | --- |
| **Control Reference: 08.h Supporting Utilities** | |
|  |  |
| **Control Specification:** | Equipment shall be protected from power failures and other disruptions caused by |
|  |
|  | failures in supporting utilities. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Contingency Planning; Maintenance; Monitoring; Physical and Facility Security |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | All supporting utilities, such as electricity, water supply, sewage, |
|  |
|  | heating/ventilation, and air conditioning shall be adequate for the systems they |
|  | are supporting. Support utilities shall be regularly inspected and tested to ensure |
|  | their proper functioning and to reduce any risk from their malfunction or failure. |
|  | A suitable electrical supply shall be provided that conforms to the equipment |
|  | manufacturer's specifications. An uninterruptable power supply (UPS) to support |
|  | orderly closedown shall be required for equipment supporting critical business |
|  | operations. Power contingency plans shall cover the action to be taken on failure |
|  | of the UPS. UPS equipment and generators shall be regularly checked to ensure |
|  | they have adequate capacity and are tested in accordance with the |
|  | manufacturer's recommendations. |
|  | The water supply shall be stable and adequate to supply air conditioning, |
|  | humidification equipment and fire suppression systems, where used. |
|  | Malfunctions in the water supply system may damage equipment or prevent fire |
|  | suppression from acting effectively. |
|  |  |
| **Level 1** | AICPA A1.2 |
|  |  |

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**Control Standard Mapping:**

AICPA CC7.1

CMSRs 2013v2 PE-11(1) (HIGH)

CSA CCM v3.0.1 BCR-03

CSA CCM v3.0.1 BCR-08

FedRAMP PE-11

ISO 27799-2008 7.6.2.2

ISO/IEC 27002:2005 9.2.2

ISO/IEC 27002:2013 11.2.2

MARS-E v2 PE-11

NIST Cybersecurity Framework ID.BE-4

NIST Cybersecurity Framework PR.IP-5

NIST SP 800-53 R4 PE-11

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization maintains temperature and humidity levels in facilities where |
|  |  | critical information processing systems reside within acceptable vendor- |
|  |  | recommended levels and monitors these levels at an organization-defined |
|  |  | frequency. Organizations shall evaluate the level of alert and follow prescribed |
|  |  | guidelines for that alert level, alert component management of possible loss of |
|  |  | service and/or media, and, if necessary, report damage and provide remedial |
|  |  | action. Implement contingency plan. |
|  |  | Emergency lighting shall be provided in case of main power failure that covers |
|  |  | emergency exists and evacuation routes within the facility. |
|  |  | Emergency power-off switches shall be located near emergency exits in |
|  |  | equipment rooms to facilitate rapid power down in case of an emergency. These |

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|  |  |  |
| --- | --- | --- |
|  |  | devices shall be protected from accidental activation. |
|  |  | A master power switch or emergency cut-off switch is implemented and |
|  |  | maintained, prominently marked and protected by a cover, for data centers, |
|  |  | servers, and mainframe rooms. |
|  |  | An alarm system to detect malfunctions in the supporting utilities shall be |
|  |  | evaluated and installed if required. |
|  |  | Only authorized maintenance personnel are permitted to access infrastructure |
|  |  | assets, including power generators, HVAC systems, cabling, and wiring closets. |
|  |  |  |
|  | **Level 2** | CMSRs 2013v2 PE-10 (HIGH) |
|  | **Control Standard** | CMSRs 2013v2 PE-12 (HIGH) |
|  | **Mapping:** | CMSRs 2013v2 PE-14 (HIGH) |
|  |  |
|  |  | CMSRs 2013v2 PE-9 (HIGH) |
|  |  | FedRAMP PE-10 |
|  |  | FedRAMP PE-12 |
|  |  | FedRAMP PE-14 |
|  |  | FedRAMP PE-14(2) |
|  |  | FedRAMP PE-9 |
|  |  | ISO/IEC 27002:2005 9.2.1 |
|  |  | ISO/IEC 27002:2005 9.2.2 |
|  |  | ISO/IEC 27002:2005 9.2.4 |
|  |  | ISO/IEC 27002:2013 11.2.1 |
|  |  | ISO/IEC 27002:2013 11.2.2 |
|  |  | ISO/IEC 27002:2013 11.2.4 |
|  |  | MARS-E v2 PE-10 |
|  |  | MARS-E v2 PE-12 |
|  |  | MARS-E v2 PE-14 |
|  |  | MARS-E v2 PE-9 |
|  |  | NIST Cybersecurity Framework ID.BE-4 |
|  |  | NIST Cybersecurity Framework PR.AC-2 |
|  |  | NIST Cybersecurity Framework PR.IP-5 |
|  |  | NIST SP 800-53 R4 PE-10 |
|  |  | NIST SP 800-53 R4 PE-12 |
|  |  | NIST SP 800-53 R4 PE-14 |
|  |  | NIST SP 800-53 R4 PE-9 |
|  |  |  |
|  | **Level 3 Implementation Requirements** | |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |

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|  |  |
| --- | --- |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Voice services shall be adequate to meet local legal requirements for emergency |
|  | communications. |
|  |  |
| **Level 3** | CMSRs 2013v2 CP-8(HIGH) |
| **Control Standard** | CSA CCM v3.0.1 BCR-03 |
| **Mapping:** | ISO/IEC 27002:2005 9.2.2 |
|  |
|  | ISO/IEC 27002:2013 11.2.2 |
|  | MARS-E v2 CP-8 |
|  | NIST Cybersecurity Framework ID.BE-4 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST SP 800-53 R4 CP-8 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization provides a long-term alternate power supply for the information system that is capable of maintaining minimally required operational capability in the event of an extended loss of the primary power source.

**Level Providers Implementation Requirements**

**Level Providers Implementation:**

Level 1 Providers: A back-up generator shall be considered if processing is required to continue in case of a prolonged power failure. An adequate supply of fuel shall be available to ensure that the generator, if used, can perform for a prolonged period.

Level 2 Providers: A back-up generator shall be implemented and an adequate supply of fuel shall be available to ensure that the generator can perform for a prolonged period. Generators shall be regularly checked to ensure they have adequate capacity and are tested in accordance with the manufacturer's recommendations.

Level 3 Providers: Multiple power sources or a separate power substation shall be used. Telecommunications equipment shall be connected to the utility provider by at least two (2) diverse routes to prevent failure in one connection path removing

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voice services. The organization shall develop telecommunications service agreements that contain priority of service (Telecommunications Service Priority) provisions.

**Control Reference: 08.i Cabling Security**

|  |  |
| --- | --- |
| **Control Specification:** | Power and telecommunications cabling carrying data or supporting information |
|  | services shall be protected from interception or damage. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Media and Assets; Physical and Facility Security; Network Security |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The organization shall protect power equipment and power cabling for the |
|  |
|  | information system from damage and destruction. |
|  | Access to patch panels and cable rooms shall be controlled. A documented patch |
|  | list shall be used to reduce the possibility of errors. |
|  | Clearly identifiable cable and equipment markings shall be used to minimize |
|  | handling errors, such as accidental patching of wrong network cables. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | AICPA CC5.5 |
| **Mapping:** | AICPA CC5.7 |
|  |
|  | AICPA CC7.1 |
|  | CMSRs 2013v2 PE-9 (HIGH) |
|  | CSA CCM v3.0.1 DCS-09 |
|  | FedRAMP PE-9 |
|  | HIPAA § 164.310(a)(1) |
|  | HIPAA § 164.310(c) |
|  | ISO/IEC 27002:2005 9.2.3 |
|  | ISO/IEC 27002:2013 11.2.3 |
|  | JCAHO IM.02.01.03, EP 5 |
|  | MARS-E v2 PE-9 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework PR.IP-5 |
|  | NIST SP 800-53 R4 PE-9 |
|  |  |

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**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Power and telecommunications lines into information processing facilities shall be |
|  | underground, where possible, or subject to adequate alternative protection. |
|  | Network cabling shall be protected from unauthorized interception or damage, for |
|  | example, by using a conduit or by avoiding routes through public areas. Power |
|  | cables shall be segregated from communications cables to prevent interference |
|  | (only applicable where copper telecommunications cables are used). |
|  | Armored conduit and locked rooms or boxes at inspection and termination points |
|  | shall be installed. Alternative routings and/or transmission media providing |
|  | appropriate security shall be used. Electromagnetic shielding shall be used to |
|  | protect the cables. |
|  | The organization controls physical access to information system distribution and |
|  | transmission lines within organizational facilities by disabling any physical ports |
|  | (e.g., wiring closets, patch panels, etc.) not in use. |
|  | The organization shall implement physical and/or logical controls to restrict access |
|  | to publicly accessible network jacks. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 PE-4 (HIGH) |
| **Mapping:** | CSA CCM v3.0.1 BCR-03 |
|  |
|  | FedRAMP PE-4 |
|  | HIPAA § 164.310(a)(1) |
|  | IRS Pub 1075 v2014 9.3.11.4 |
|  |  |

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|  | IRS Pub 1075 v2014 9.3.16.6 |
|  | ISO 27799-2008 7.6.2.2 |
|  | ISO/IEC 27002:2005 9.2.3 |
|  | ISO/IEC 27002:2013 11.2.3 |
|  | MARS-E v2 PE-4 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST SP 800-53 R4 PE-4 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 9.1.2 |
|  |  |
| **Level 3 Implementation Requirements** | |
|  |  |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Technical sweeps and physical inspections shall be initiated for unauthorized |
|  | devices being attached to the cables. |
|  |  |
| **Level 3** | CMSRs 2013v2 CM-8(3) (HIGH) |
| **Control Standard** | HIPAA § 164.310(a)(1) |
| **Mapping:** | ISO/IEC 27002:2005 9.2.3 |
|  |
|  | ISO/IEC 27002:2013 11.2.3 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST SP 800-53 R4 CM-8(3) |
|  |  |

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** If encryption is not used to protect the transmission of FTI, the agency must ensure that all network infrastructure, access points, wiring, conduits, and cabling

are within the control of authorized agency personnel.

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**Control Reference: 08.j Equipment Maintenance**

**Control Specification:**

|  |  |
| --- | --- |
|  | Equipment shall be correctly maintained to ensure its continued availability and |
|  | integrity. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Documentation and Records; Maintenance; Media and Assets |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |

**Level 1 Implementation:**

The organization shall develop, disseminate, and review/update annually:

1. a formal, documented information system maintenance policy that addresses purpose, scope, roles, responsibilities, management commitment, coordination among organizational entities, and compliance; and
2. formal, documented procedures to facilitate the implementation of the information system maintenance policy and associated system maintenance controls.

Equipment shall be maintained in accordance with the supplier's recommended service intervals and specifications. Only authorized maintenance personnel shall carry out repairs and service equipment. Appropriate controls shall be implemented when equipment is scheduled for maintenance (e.g., authorization levels) taking into account whether this maintenance is performed by personnel on site or external to the organization.

The organization:

1. Establishes a process for maintenance personnel authorization and maintains a list of authorized maintenance organizations or personnel;
2. Ensures that non-escorted personnel performing maintenance on the information system have required access authorizations; and
3. Designates organizational personnel with required access authorizations and technical competence to supervise the maintenance activities of personnel who do not possess the required access authorizations.

The organization monitors and controls nonlocal maintenance and diagnostic activities; and prohibits nonlocal system maintenance unless explicitly authorized, in writing, by the CIO or his/her designated representative. If nonlocal

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|  |  |
| --- | --- |
|  | maintenance and diagnostic actives are authorized, the organization: |
|  | 1. Allows the use of nonlocal maintenance and diagnostic tools only as |
|  | consistent with organizational policy and as documented in the security |
|  | plan for the information system; |
|  | 2. Employs strong identification and authentication techniques in the |
|  | establishment of nonlocal maintenance and diagnostic sessions; |
|  | 3. Maintains records for nonlocal maintenance and diagnostic activities; and |
|  | 4. Terminates all sessions and network connections when nonlocal |
|  | maintenance is completed. |
|  | The organization obtains maintenance support and/or spare parts for defined key |
|  | information system components (defined in the applicable security plan) within the |
|  | applicable Recovery Time Objective (RTO) specified in the contingency plan. |
|  | All requirements imposed by insurance policies shall be complied with. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA A1.2 |
|  |
|  | AICPA CC5.6 |
|  | AICPA CC5.7 |
|  | AICPA CC5.8 |
|  | CMSRs 2013v2 MA-1 (HIGH) |
|  | CMSRs 2013v2 MA-4 (HIGH) |
|  | CMSRs 2013v2 MA-4(1) (HIGH) |
|  | CMSRs 2013v2 MA-4(3) (HIGH) |
|  | CMSRs 2013v2 MA-5 (HIGH) |
|  | CMSRs 2013v2 MA-5(1) (HIGH) |
|  | CMSRs 2013v2 MA-6 (HIGH) |
|  | CRR V2016 CCM:G2.Q10 |
|  | CSA CCM v3.0.1 BCR-07 |
|  | FedRAMP MA-1 |
|  | FedRAMP MA-4 |
|  | FedRAMP MA-5 |
|  | FedRAMP MA-6 |
|  | HIPAA § 164.308(a)(3)(ii)(A) |
|  | HIPAA § 164.310(a)(2)(iv) |
|  | IRS Pub 1075 v2014 9.3.9.1 |
|  | IRS Pub 1075 v2014 9.3.9.4 |
|  | IRS Pub 1075 v2014 9.3.9.5 |
|  | ISO 27799-2008 7.6.2.2 |
|  | ISO/IEC 27002:2005 9.2.4 |
|  | ISO/IEC 27002:2013 11.2.4 |
|  | MARS-E v2 MA-1 |
|  | MARS-E v2 MA-4 |
|  |  |

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MARS-E v2 MA-4(1)

MARS-E v2 MA-5

MARS-E v2 MA-6

NIST Cybersecurity Framework PR.MA-1

NIST Cybersecurity Framework PR.MA-2

NIST SP 800-53 R4 MA-1

NIST SP 800-53 R4 MA-4

NIST SP 800-53 R4 MA-4(1)

NIST SP 800-53 R4 MA-4(3)

NIST SP 800-53 R4 MA-5

NIST SP 800-53 R4 MA-6

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Covered information shall be cleared from the equipment, or the maintenance |
|  |  | personnel shall be sufficiently cleared prior to all maintenance. Records shall be |
|  |  | kept of all suspected or actual faults and all preventive and corrective |
|  |  | maintenance including: |
|  |  | 1. date and time of maintenance; |
|  |  | 2. name of individual performing maintenance; |
|  |  | 3. name of escort; |
|  |  | 4. a description of maintenance performed; and |
|  |  | 5. a list of equipment removed or replaced. |
|  |  | The organization shall check all potentially impacted security controls to verify that |
|  |  | the controls are still functioning properly following maintenance or repair actions. |
|  |  |  |

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**Level 2**

**Control Standard**

**Mapping:**

1 TAC § 390.2(a)(4)(A)(xi)

CMSRs 2013v2 MA-2 (HIGH)

CMSRs 2013v2 MA-2(2) (HIGH)

CRR V2016 CCM:G2.Q11

CRR V2016 CCM:G2.Q9

CSA CCM v3.0.1 BCR-07

FedRAMP MA-2

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.310(a)(2)(iv)

IRS Pub 1075 v2014 9.3.9.2

ISO/IEC 27002:2005 9.2.4

ISO/IEC 27002:2013 11.2.4

MARS-E v2 MA-2

MARS-E v2 MA-2(1)

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.MA-1

NIST SP 800-53 R4 MA-2

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to CRR V2016 |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization shall approve, control and monitor the use of information system |
|  |  | maintenance tools (e.g., hardware and software brought into the organization for |
|  |  | diagnostic/repair actions). All maintenance tools carried into the facility by |
|  |  | maintenance personnel shall be inspected for improper or unauthorized |
|  |  | modifications. All media containing diagnostic and test programs shall be checked |

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|  |  |
| --- | --- |
|  | for malicious code prior to the media being used in the information system. |
|  | The organization documents the requirements (e.g., policies and procedures) for |
|  | the establishment and use of nonlocal maintenance and diagnostic connections in |
|  | the security plan for the information system. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 MA-3 (HIGH) |
| **Mapping:** | CMSRs 2013v2 MA-3(1) (HIGH) |
|  |
|  | CMSRs 2013v2 MA-3(2) (HIGH) |
|  | CMSRs 2013v2 MA-4(2) (HIGH) |
|  | CRR V2016 CCM:G2.Q10 |
|  | CSA CCM v3.0.1 BCR-07 |
|  | FedRAMP MA-3 |
|  | FedRAMP MA-3(1) |
|  | FedRAMP MA-3(2) |
|  | FedRAMP MA-4(2) |
|  | IRS Pub 1075 v2014 9.3.9.3 |
|  | IRS Pub 1075 v2014 9.3.9.4 |
|  | MARS-E v2 MA-3 |
|  | MARS-E v2 MA-3(1) |
|  | MARS-E v2 MA-3(2) |
|  | MARS-E v2 MA-4(2) |
|  | NIST Cybersecurity Framework DE.CM-4 |
|  | NIST Cybersecurity Framework PR.MA-1 |
|  | NIST SP 800-53 R4 MA-3 |
|  | NIST SP 800-53 R4 MA-3(1) |
|  | NIST SP 800-53 R4 MA-3(2) |
|  | NIST SP 800-53 R4 MA-4(2) |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization:

1. Implements procedures, for the use of maintenance personnel that lack appropriate security clearances or are not U.S. citizens, that include the following requirements
   1. Maintenance personnel who do not have needed access authorizations, clearances, or formal access approvals are escorted and supervised during the performance of maintenance and diagnostic activities on the information system by approved organizational personnel who are fully cleared, have appropriate access authorizations, and are technically qualified;
   2. Prior to initiating maintenance or diagnostic activities by personnel who do not have needed access authorizations, clearances or formal access approvals, all volatile information

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storage components within the information system are sanitized and all nonvolatile storage media are removed or physically disconnected from the system and secured.

1. Develops and implements alternate security safeguards in the event an information system component cannot be sanitized, removed, or disconnected from the system.

If password-based authentication is used during remote maintenance, change the passwords following each remote maintenance service.

The organization shall audit nonlocal maintenance and diagnostic sessions using available auditable events and shall review the records of the sessions.

The organization shall:

1. require that non-local maintenance and diagnostic services be performed from an information system that implements a level of security at least as high as that implemented on the system being serviced; or
2. remove the component to be serviced from the information system and, prior to non-local maintenance or diagnostic services, sanitize the component (with regard to sensitive information) before removal from organizational facilities, and after the service is performed, inspected, and sanitized the component (with regard to potentially malicious software and surreptitious implants) before reconnecting the component to the information system.

Automated mechanisms are implemented to schedule, conduct, and document maintenance and repairs as required, producing up-to-date, accurate, complete and available records of all maintenance and repair actions, needed, in process, and completed.

The equipment shall be appropriately sanitized before release; if the equipment cannot be sanitized, the equipment shall remain within control of the organization, be destroyed, or an exemption is obtained from the CMS CIO or his/her designated representative explicitly authorizing removal of the equipment from the facility.

The organization requires that non-local maintenance and diagnostic services be performed from an information system that implements a level of security at least as high as that implemented on the system being serviced; or removes the component to be serviced from the information system and, prior to non-local maintenance or diagnostic services, sanitizes the component (with regard to organization information) before removal from organizational facilities, and after the service is performed, inspects and sanitizes the component (with regard to potentially malicious software and surreptitious implants) before reconnecting the component to the information system.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The equipment is appropriately sanitized before release. If the equipment cannot be sanitized, the equipment remains within control of the organization, is

destroyed, or an exemption is obtained from the information owner explicitly

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authorizing removal of the equipment from the facility.

**Level HIX Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| **Level HIX Implementation:** |  | The organization prevents the unauthorized removal of maintenance equipment | |
|  |
|  |  |
|  |  | containing organizational information by: | |
|  |  | 1. | Verifying there is no organizational information contained in the |
|  |  |  | equipment; |
|  |  | 2. | Sanitizing or destroying the equipment; |
|  |  | 3. | Retaining the equipment within the facility; or |
|  |  | 4. | Obtaining a written exemption from the CIO or his/her designated |
|  |  |  | representative explicitly authorizing removal of the equipment from the |
|  |  |  | facility. |
|  |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 08.k Security of Equipment Off-Premises** | |
|  |  |  |
|  | **Control Specification:** | Security shall be applied to off-site equipment taking into account the different |
|  |  |
|  |  | risks of working outside the organization's premises. |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; IT Organization and Management Roles and Responsibilities; |
|  |  | Media and Assets; Physical and Facility Security |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | Regardless of ownership, the use of any information processing equipment |
|  |  |
|  |  | outside the organization's premises shall be authorized by management. This |
|  |  | shall include equipment used by remote workers, even where such use is |
|  |  | permanent (e.g., a core feature of the employee's role, such as for ambulance |
|  |  | personnel or therapists.). |
|  |  | Equipment and media taken off the premises shall not be left unattended in public |
|  |  | places. Portable computers shall be carried as hand luggage and disguised where |
|  |  | possible when travelling. |
|  |  | Manufacturers' instructions for protecting equipment shall be observed at all times |
|  |  | (e.g., protection against exposure to strong electromagnetic fields). |
|  |  | Home-working controls shall be applied, including lockable filing cabinets, clear |

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|  |  |
| --- | --- |
|  | desk policy, and access controls for computers and secure communication with |
|  | the office. |
|  | Adequate insurance coverage shall be in place to protect equipment off-site. |
|  | Security risks (e.g., of damage, theft or eavesdropping) may vary considerably |
|  | between locations and shall be taken into account in determining the most |
|  | appropriate controls. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC5.1 |
|  |
|  | AICPA CC5.5 |
|  | AICPA CC5.6 |
|  | AICPA CC5.7 |
|  | CMSRs 2013v2 AC-20 (HIGH) |
|  | CMSRs 2013v2 MP-5 (HIGH) |
|  | CMSRs 2013v2R4 PE-17 (HIGH) |
|  | CSA CCM v3.0.1 DCS-04 |
|  | CSA CCM v3.0.1 DCS-05 |
|  | FedRAMP MP-5 |
|  | FedRAMP PE-17 |
|  | HIPAA § 164.310(c) |
|  | HIPAA § 164.310(d)(1) |
|  | HIPAA § 164.310(d)(2)(iii) |
|  | HIPAA § 164.312(c)(1) |
|  | IRS Pub 1075 v2014 9.3.10.5 |
|  | IRS Pub 1075 v2014 9.3.11.9 |
|  | ISO 27799-2008 7.6.2.3 |
|  | ISO/IEC 27002:2005 11.7.1 |
|  | ISO/IEC 27002:2005 11.7.2 |
|  | ISO/IEC 27002:2005 9.2.5 |
|  | ISO/IEC 27002:2013 11.2.6 |
|  | ISO/IEC 27002:2013 6.2 |
|  | ISO/IEC 27002:2013 6.2.1 |
|  | ISO/IEC 27002:2013 6.2.2 |
|  | MARS-E v2 AC-20 |
|  | MARS-E v2 MP-5 |
|  | MARS-E v2 PE-17 |
|  | NIST Cybersecurity Framework PR.DS-3 |
|  | NIST SP 800-53 R4 AC-20 |
|  | NIST SP 800-53 R4 MP-5 |
|  | NIST SP 800-53 R4 PE-17 |
|  | NRS 603A.215.1 |
|  |  |

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|  |  |  |  |
| --- | --- | --- | --- |
|  | **Control Reference: 08.l Secure Disposal or Re-Use of Equipment** | | |
|  |  |  |  |
|  | **Control Specification:** | All items of equipment containing storage media shall be checked to ensure that | |
|  |  |
|  |  | any covered information and licensed software has been removed or securely | |
|  |  | overwritten prior to disposal. | |
|  |  | \*Required for HITRUST Certification CSF v9 | |
|  |  |  | |
|  | **Factor Type:** | Organizational | |
|  |  |  | |
|  | **Topics:** | Data Loss Prevention; Media and Assets | |
|  |  |  | |
|  | **Level 1 Implementation Requirements** | | |
|  |  |  | |
|  | **Level 1** | Applicable to all Organizations | |
|  | **Organizational Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  | |
|  | **Level 1** | Subject to FISMA Compliance | |
|  | **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to Joint Commission Accreditation | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to PCI Compliance | |
|  |  | Subject to Texas Health and Safety Code | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements | |
|  |  |  |  |
|  | **Level 1 Implementation:** | Surplus equipment is stored securely while not in use, and disposed of or | |
|  |  |
|  |  | sanitized when no longer required. | |
|  |  | Devices containing covered information shall be physically destroyed or the | |
|  |  | information shall be destroyed, deleted, or overwritten using techniques to make | |
|  |  | the original information non-retrievable rather than using the standard delete or | |
|  |  | format function. | |
|  |  | The following are appropriate techniques to securely remove information: | |
|  |  | 1. | disk wiping |
|  |  | 2. | degaussing |
|  |  | The following are appropriate techniques to securely destroy electronic and hard | |
|  |  | copy media: | |
|  |  | 1. | shredding disk platters |
|  |  | 2. | disintegration |
|  |  | 3. | grinding surfaces |
|  |  | 4. | incineration |
|  |  | 5. | pulverization |
|  |  | 6. | melting |

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|  |  |
| --- | --- |
|  | See NIST SP800-88 Guidelines for Media Sanitization for more information on |
|  | implementing media sanitization and destruction techniques. |
|  | The organization shall render information unusable, unreadable, or indecipherable |
|  | on system media, both digital and non-digital, prior to disposal or release for reuse |
|  | using organization-defined sanitization techniques and procedures in accordance |
|  | with applicable federal and organizational standards and policies. The |
|  | organization destroys media containing sensitive information that cannot be |
|  | sanitized. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.8 |
|  |
|  | AICPA CC5.1 |
|  | AICPA CC5.6 |
|  | AICPA CC5.7 |
|  | CMSRs 2013v2 DM-2 (HIGH) |
|  | CMSRs 2013v2 MP-6 (HIGH) |
|  | COBIT 4.1 DS1.4 |
|  | COBIT 4.1 DS11.4 |
|  | COBIT 4.1 DS11.6 |
|  | COBIT 5 DSS05.03 |
|  | COBIT 5 DSS05.06 |
|  | CRR V2016 AM:G6.Q6 |
|  | CSA CCM v3.0.1 DSI-07 |
|  | De-ID Framework v1 Disposal: Data Destruction Procedures |
|  | FedRAMP MP-6 |
|  | FFIEC IS v2016 A.6.16(e) |
|  | FFIEC IS v2016 A.6.18(e) |
|  | Guidance to render PHI unusable, unreadable, or indecipherable (2)(i) |
|  | Guidance to render PHI unusable, unreadable, or indecipherable (2)(ii) |
|  | HIPAA § 164.310(d)(1) |
|  | HIPAA § 164.310(d)(2)(i) |
|  | HIPAA § 164.310(d)(2)(ii) |
|  | IRS Pub 1075 v2014 8.2 |
|  | IRS Pub 1075 v2014 8.3 |
|  | IRS Pub 1075 v2014 9.3.10.6 |
|  | ISO 27799-2008 7.6.2.4 |
|  | ISO/IEC 27002:2005 9.2.6 |
|  | ISO/IEC 27002:2013 11.2.7 |
|  | JCAHO IM.02.01.03, EP 7 |
|  | MARS-E v2 DM-2 |
|  | MARS-E v2 MP-6 |
|  |  |

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NIST Cybersecurity Framework PR.DS-3

NIST Cybersecurity Framework PR.IP-6

NIST SP 800-53 R4 DM-2

NIST SP 800-53 R4 MP-6

NRS 603A.200.1

NRS 603A.200.2.b.1

NRS 603A.200.2.b.2

PCI DSS v3.2 9.8.1

PCI DSS v3.2 9.8.2

|  |  |
| --- | --- |
| **Control Reference: 08.m Removal of Property** | |
|  |  |
| **Control Specification:** | Equipment, information or software shall not be taken off site without prior |
|  |
|  | authorization. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization; Documentation and Records; Media and Assets; Personnel; Third |
|  | Parties and Contractors |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to Joint Commission Accreditation |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 1 Implementation:** | Equipment, information or software shall not be taken off site without prior |
|  |
|  | authorization. Employees, contractors and third-party users who have authority to |
|  | permit off-site removal of assets shall be clearly identified. |
|  | Time limits for equipment removal shall be set and returns checked for |
|  | compliance. Where necessary and appropriate, equipment shall be recorded as |
|  | being removed off site and recorded when returned. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC5.6 |
| **Mapping:** | AICPA CC5.7 |
|  |
|  | CMSRs 2013v2 PE-16 (HIGH) |
|  | CSA CCM v3.0.1 DCS-04 |
|  | FedRAMP PE-16 |
|  | HIPAA § 164.310(d)(1) |
|  |  |

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HIPAA § 164.310(d)(2)(iii)

IRS Pub 1075 v2014 4.3.1

IRS Pub 1075 v2014 9.3.11.8

ISO 27799-2008 7.6.2.5

ISO/IEC 27002:2005 9.2.5

ISO/IEC 27002:2005 9.2.7

ISO/IEC 27002:2013 11.2.5

JCAHO IM.02.01.03, EP 4

MARS-E v2 PE-16

NIST Cybersecurity Framework PR.DS-3

NIST Cybersecurity Framework PR.IP-6

NIST SP 800-53 R4 MA-2

NIST SP 800-53 R4 MP-5

NIST SP 800-53 R4 PE-16

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**Control Category: 09.0 - Communications and Operations Management**

**Objective Name: 09.01 Documented Operating Procedures**

**Control**

**Objective:** To ensure that operating procedures are documented, maintained and made available to all users who need them.

**Control Reference: 09.a Documented Operations Procedures**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Operating procedures shall be documented, maintained, and made available to all |
|  |  | users who need them. |
|  |  |  |
|  | **Factor Type:** | System |
|  |  |  |
|  | **Topics:** | Cryptography; Documentation and Records; Policies and Procedures |
|  |  |  |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | Documented procedures shall be prepared for system activities associated with |
|  |  |
|  |  | information and communication assets, including computer start-up and close- |
|  |  | down procedures, backup of data, equipment maintenance, media handling, |
|  |  | electronic communications, computer room and mail handling management, and |
|  |  | safety. |
|  |  | The operating procedures shall specify the detailed instructions for the execution |
|  |  | of each job including: |
|  |  | 1. processing and handling of information; |
|  |  | 2. the backup of data; |
|  |  | 3. scheduling requirements, including interdependencies with other systems, |
|  |  | earliest job start and latest job completion times; |
|  |  | 4. instructions for handling errors or other exceptional conditions, which |
|  |  | might arise during job execution, including restrictions on the use of |
|  |  | system utilities; |
|  |  | 5. support contacts in the event of unexpected operational or technical |
|  |  | difficulties; |
|  |  | 6. special output and media handling instructions, such as the use of special |
|  |  | stationery or the management of confidential output including procedures |

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for secure disposal of output from failed jobs;

1. system restart and recovery in the event of system failure; and
2. the management of audit-trail and system log information.

Operating procedures, and the documented procedures for system activities, shall be treated as formal documents and changes authorized by management.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 21 CFR Part 11.10(k) |
|  |
|  | AICPA C1.2 |
|  | AICPA CC2.4 |
|  | AICPA CC5.7 |
|  | AICPA CC6.1 |
|  | AICPA CC6.2 |
|  | AICPA CC7.1 |
|  | CMSRs 2013v2 AC-1 |
|  | CMSRs 2013v2 AT-1 |
|  | CMSRs 2013v2 AU-1 |
|  | CMSRs 2013v2 CA-1 |
|  | CMSRs 2013v2 CM-1 |
|  | CMSRs 2013v2 CP-1 |
|  | CMSRs 2013v2 IA-1 |
|  | CMSRs 2013v2 IR-1 |
|  | CMSRs 2013v2 PE-1 |
|  | CMSRs 2013v2 PL-1 |
|  | CMSRs 2013v2 PM-1 |
|  | CMSRs 2013v2 PS-1 |
|  | CMSRs 2013v2 RA-1 |
|  | CMSRs 2013v2 SA-1 |
|  | CMSRs 2013v2 SC-1 |
|  | CMSRs 2013v2 SI-1 |
|  | CSA CCM v3.0.1 BCR-04 |
|  | CSA CCM v3.0.1 BCR-10 |
|  | FedRAMP AT-1 |
|  | FedRAMP AU-1 |
|  | FedRAMP CA-1 |
|  | FedRAMP CM-1 |
|  | FedRAMP CP-1 |
|  | FedRAMP IA-1 |
|  | FedRAMP IR-1 |
|  | FedRAMP MA-1 |
|  | FedRAMP MP-1 |

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FedRAMP PE-1

FedRAMP PL-1

FedRAMP PS-1

FedRAMP RA-1

FedRAMP SA-1

FedRAMP SC-1

FedRAMP SI-1

FFIEC IS v2016 A.6.1

HIPAA § 164.310(a)(2)(iv)

HIPAA § 164.316(a)

IRS Pub 1075 v2014 9.3.1.1

IRS Pub 1075 v2014 9.3.10.1

IRS Pub 1075 v2014 9.3.11.1

IRS Pub 1075 v2014 9.3.12.1

IRS Pub 1075 v2014 9.3.13.1

IRS Pub 1075 v2014 9.3.14.1

IRS Pub 1075 v2014 9.3.15.1

IRS Pub 1075 v2014 9.3.16.1

IRS Pub 1075 v2014 9.3.17.1

IRS Pub 1075 v2014 9.3.2.1

IRS Pub 1075 v2014 9.3.3.1

IRS Pub 1075 v2014 9.3.4.1

IRS Pub 1075 v2014 9.3.5.1

IRS Pub 1075 v2014 9.3.6.1

IRS Pub 1075 v2014 9.3.7.1

IRS Pub 1075 v2014 9.3.8.1

IRS Pub 1075 v2014 9.3.9.1

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO/IEC 27002:2005 10.1.1

ISO/IEC 27002:2013 12.1.1

MARS-E v2 AC-1

MARS-E v2 AT-1

MARS-E v2 AU-1

MARS-E v2 CA-1

MARS-E v2 CM-1

MARS-E v2 CP-1

MARS-E v2 IA-1

MARS-E v2 IR-1

MARS-E v2 MA-1

MARS-E v2 MP-1

MARS-E v2 PE-1

MARS-E v2 PL-1

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MARS-E v2 PM-1

MARS-E v2 PS-1

MARS-E v2 RA-1

MARS-E v2 SA-1

MARS-E v2 SC-1

MARS-E v2 SI-1

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AT-1

NIST SP 800-53 R4 AU-1

NIST SP 800-53 R4 CA-1

NIST SP 800-53 R4 CM-1

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 IA-1

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 MA-1

NIST SP 800-53 R4 MP-1

NIST SP 800-53 R4 PE-1

NIST SP 800-53 R4 PL-1

NIST SP 800-53 R4 PM-1

NIST SP 800-53 R4 PS-1

NIST SP 800-53 R4 RA-1

NIST SP 800-53 R4 SA-1

NIST SP 800-53 R4 SC-1

NIST SP 800-53 R4 SI-1

NRS 603A.215.1

PCI DSS v3.2 1.5

PCI DSS v3.2 10.9

PCI DSS v3.2 11.6

PCI DSS v3.2 2.5

PCI DSS v3.2 3.7

PCI DSS v3.2 4.3

PCI DSS v3.2 5.4

PCI DSS v3.2 6.7

PCI DSS v3.2 7.3

PCI DSS v3.2 8.8

PCI DSS v3.2 9.10

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** If data warehousing documentation is integrated with other security documents, these documents shall have a section dedicated to the data warehouse(s) to

define controls specific to that environment. The organization shall ensure these

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documents:

1. describe how "legacy system data" will be brought into the data warehouse and how the legacy data that is FTI will be cleansed for the extraction, transformation and loading (ETL) process; and
2. any unique issues related to data warehousing.

**Level PCI Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| **Level PCI Implementation:** |  | The organization shall ensure operational procedures are documented, | |
|  |
|  |  |
|  |  | communicated (known to all parties) and in use for the following: | |
|  |  | 1. | managing firewalls, |
|  |  | 2. | managing vendor defaults and other security parameters, |
|  |  | 3. | protecting stored cardholder data, |
|  |  | 4. | encrypting transmissions of cardholder data, |
|  |  | 5. | protecting systems against malware, |
|  |  | 6. | developing and maintaining secure systems and applications, |
|  |  | 7. | restricting access to cardholder data, |
|  |  | 8. | identification and authentication, |
|  |  | 9. | restricting physical access to cardholder data, |
|  |  | 10. | monitoring access to network resources and cardholder data, and |
|  |  | 11. | security monitoring and testing. |
|  |  |  |  |

|  |  |
| --- | --- |
| **Control Reference: 09.b Change Management** | |
|  |  |
| **Control Specification:** | Changes to information assets and systems shall be controlled and archived. |
|  |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | IT Organization and Management Roles and Responsibilities; Media and Assets |
|  |  |

**Level 1 Implementation Requirements**

|  |  |
| --- | --- |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Changes to information assets, including systems, networks and network services, |
|  |
|  | shall be controlled and archived. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC2.6 |
| **Mapping:** | AICPA CC7.1 |
|  |
|  |  |

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AICPA CC7.2

AICPA CC7.3

AICPA CC7.4

CMSRs 2013v2 CM-3 (HIGH)

CRR V2016 AM:G4.Q1

CRR V2016 CCM:G1.Q1

CRR V2016 CCM:G2.Q2

CRR V2016 CCM:MIL2.Q1

CRR V2016 CCM:MIL2.Q2

FedRAMP CM-3

FFIEC IS v2016 A.6.11

IRS Pub 1075 v2014 9.3.5.3

ISO/IEC 27002:2005 10.1.2

ISO/IEC 27002:2013 12.1.2

MARS-E v2 CM-3

NIST Cybersecurity Framework PR.IP-3

NIST SP 800-53 R4 CM-3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Number of Interfaces: 25 to 75 |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  |  | Number of users of the system: 500 to 5,500 |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Changes shall be managed strictly and consistently. Formal management |
|  |  | responsibilities and procedures shall be in place to ensure satisfactory control of |
|  |  | all changes to equipment, software or procedures, including: |
|  |  | 1. the identification and recording of significant changes; |
|  |  | 2. the planning and testing of changes; |
|  |  | 3. the assessment of the potential impacts, including security impacts, of |
|  |  | such changes; |
|  |  | 4. the formal approval for proposed changes; and |
|  |  | 5. the communication of change details to all relevant persons. |
|  |  | Fallback procedures shall be defined and implemented, including procedures and |
|  |  | responsibilities for aborting and recovering from unsuccessful changes and |

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|  |  |
| --- | --- |
|  | unforeseen events. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CM-3 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CM-4 (HIGH) |
|  |
|  | CMSRs 2013v2 CM-5 (HIGH) |
|  | CRR V2016 CCM:G1.Q1 |
|  | CRR V2016 CCM:G1.Q5 |
|  | CRR V2016 CCM:G2.Q2 |
|  | CRR V2016 CCM:G2.Q3 |
|  | CRR V2016 CCM:MIL2.Q1 |
|  | CRR V2016 CCM:MIL2.Q2 |
|  | CRR V2016 CCM:MIL2.Q4 |
|  | FedRAMP CM-3 |
|  | FedRAMP CM-4 |
|  | FedRAMP CM-5 |
|  | FFIEC IS v2016 A.6.11 |
|  | IRS Pub 1075 v2014 9.3.5.3 |
|  | IRS Pub 1075 v2014 9.3.5.4 |
|  | IRS Pub 1075 v2014 9.3.5.5 |
|  | ISO 27799-2008 7.7.1.2 |
|  | ISO/IEC 27001:2013 8.1 |
|  | ISO/IEC 27002:2005 10.1.2 |
|  | ISO/IEC 27002:2013 12.1.2 |
|  | MARS-E v2 CM-3 |
|  | MARS-E v2 CM-4 |
|  | MARS-E v2 CM-5 |
|  | NIST Cybersecurity Framework PR.IP-3 |
|  | NIST SP 800-53 R4 CM-3 |
|  | NIST SP 800-53 R4 CM-4 |
|  | NIST SP 800-53 R4 CM-5 |
|  | NIST SP 800-53 R4 CM-9 |
|  |  |

**Control Reference: 09.c Segregation of Duties**

|  |  |
| --- | --- |
| **Control Specification:** | Separation of duties shall be enforced to reduce opportunities for unauthorized or |
|  |
|  | unintentional modification or misuse of the organization's assets. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization; IT Organization and Management Roles and Responsibilities; |
|  | Monitoring |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 1 Implementation:** | Small organizations may find segregation of duties difficult to achieve, but the |
|  |  |
|  |  | principle shall be applied as far as is possible and practicable. Whenever it is |
|  |  | difficult to segregate controls such as monitoring of activities, audit trails, |
|  |  | management supervision, or a system of dual control (e.g., two individuals with |
|  |  | separate responsibilities needing to work together to accomplish a task) shall be |
|  |  | required. |
|  |  | Security audit activities shall always remain independent. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | AICPA CC1.1 |
|  | **Mapping:** | AICPA CC3.2 |
|  |  |
|  |  | AICPA CC5.1 |
|  |  | AICPA CC7.4 |
|  |  | CRR V2016 AM:G5.Q6 |
|  |  | FFIEC IS v2016 A.6.8(d) |
|  |  | HIPAA § 164.308(a)(3)(i) |
|  |  | HIPAA § 164.308(a)(4)(i) |
|  |  | HIPAA § 164.308(a)(4)(ii)(A) |
|  |  | HIPAA § 164.312(a)(1) |
|  |  | ISO/IEC 27002:2005 10.1.3 |
|  |  | ISO/IEC 27002:2013 6.1.2 |
|  |  | NIST Cybersecurity Framework PR.AC-4 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |

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|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 2** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 2** |  | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  |  | |  |
|  | **Level 2 Implementation:** | | Level 1 plus: |
|  |  |  |
|  |  |  | Segregation of duties is a method for reducing the risk of accidental or deliberate |
|  |  |  | system misuse. No single person shall be able to access, modify or use assets |
|  |  |  | without authorization or detection. The initiation of an event shall be separated |
|  |  |  | from its authorization to reduce the possibility of collusion. The organization shall |
|  |  |  | identify duties that require separation and define information system access |
|  |  |  | authorizations to support separation of duties. Job descriptions shall reflect |
|  |  |  | accurately the assigned duties and responsibilities that support separation of |
|  |  |  | duties. |
|  |  |  | Incompatible duties shall be segregated across multiple users to minimize the |
|  |  |  | opportunity for misuse or fraud. In cases where conflicting duties must be |
|  |  |  | assigned to a single user, activity logging and log reviews by an independent party |
|  |  |  | shall be required. |
|  |  |  |  |
|  | **Level 2** |  | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** |  | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Mapping:** |  | AICPA CC1.1 |
|  |  |  |
|  |  |  | AICPA CC3.2 |
|  |  |  | CMSRs 2013v2 AC-5(HIGH) |
|  |  |  | COBIT 4.1 DS5.5 |
|  |  |  | COBIT 4.1 DS5.7 |
|  |  |  | COBIT 5 DS05.04 |
|  |  |  | FedRAMP AC-5 |
|  |  |  | FFIEC IS v2016 A.6.8(d) |
|  |  |  | HIPAA § 164.308(a)(3)(i) |
|  |  |  | HIPAA § 164.308(a)(4)(i) |
|  |  |  | HIPAA § 164.308(a)(4)(ii)(A) |
|  |  |  | HIPAA § 164.312(a)(1) |
|  |  |  | IRS Pub 1075 v2014 9.3.1.5 |
|  |  |  | ISO 27799-2008 7.7.1.3 |
|  |  |  | ISO/IEC 27002:2005 10.1.3 |
|  |  |  | ISO/IEC 27002:2013 6.1.2 |
|  |  |  | MARS-E v2 AC-5 |
|  |  |  | NIST Cybersecurity Framework DE.CM-3 |
|  |  |  | NIST Cybersecurity Framework PR.AC-4 |
|  |  |  | NIST SP 800-53 R4 AC-5 |
|  |  |  |  |
|  |  | **Level 3 Implementation Requirements** | |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall: |
|  | 1. ensure that audit functions are not performed by security personnel |
|  | responsible for administering access control; |
|  | 2. maintain a limited group of administrators with access based upon the |
|  | users' roles and responsibilities; |
|  | 3. ensure that mission critical functions and information system support |
|  | functions are divided among separate individuals; |
|  | 4. ensure that information system testing functions (i.e., user acceptance, |
|  | quality assurance, information security) and production functions are |
|  | divided among separate individuals or groups; |
|  | 5. ensure that an independent entity, not the Business Owner, System |
|  | Developer(s) / Maintainer(s), or System Administrator(s) responsible for |
|  | the information system, conducts information security testing of the |
|  | information system; and |
|  | 6. ensure that quality assurance and code reviews of custom-developed |
|  | applications, scripts, libraries, and extensions are conducted by an |
|  | independent entity, not the code developers. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-5(HIGH) |
| **Mapping:** | COBIT 4.1 DS5.7 |
|  |
|  | COBIT 5 DSS05.05 |
|  | CSA CCM v3.0.1 IAM-05 |
|  | FedRAMP AC-5 |
|  | FFIEC IS v2016 A.6.8(d) |
|  | HIPAA § 164.308(a)(3)(i) |
|  |  |

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HIPAA § 164.308(a)(4)(i)

HIPAA § 164.312(a)(1)

IRS Pub 1075 v2014 9.3.1.5

ISO/IEC 27002:2005 10.1.3

ISO/IEC 27002:2013 6.1.2

MARS-E v2 AC-5

NIST Cybersecurity Framework PR.AC-4

NIST SP 800-53 R4 AC-5

NRS 603A.215.1

PCI DSS v3.2 6.4.2

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** To use an Integrated Voice Response (IVR) system that provides FTI over the telephone to a customer, the agency must ensure independent security testing is

conducted on the IVR system prior to implementation.

**Control Reference: 09.d Separation of Development, Test, and Operational Environments**

|  |  |
| --- | --- |
| **Control Specification:** | Development, test, and operational environments shall be separated and |
|  | controlled to reduce the risks of unauthorized access or changes to the |
|  | operational system. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | IT Organization and Management Roles and Responsibilities; Policies and |
|  | Procedures |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The organization shall minimize any testing on production systems. When testing |
|  |
|  | must be performed, a test plan shall be developed that documents all changes to |
|  | the system and the procedures for undoing any changes made to the system |
|  | (e.g., removing test accounts). |
|  |  |
| **Level 1** | AICPA CC7.4 |
| **Control Standard** | CRR V2016 CCM:G2.Q7 |
| **Mapping:** | CSA CCM v3.0.1 IVS-08 |
|  |
|  | ISO 27799-2008 7.7.1.4 |
|  | ISO/IEC 27002:2005 10.1.2 |
|  |  |

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ISO/IEC 27002:2005 10.1.4

ISO/IEC 27002:2013 12.1.2

ISO/IEC 27002:2013 12.1.4

NIST Cybersecurity Framework PR.DS-7

NIST Cybersecurity Framework PR.IP-3

NRS 603A.215.1

PCI DSS v3.2 6.4.1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Number of Interfaces: 25 to 75 |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  |  | Number of users of the system: 500 to 5,500 |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The level of separation between operational, test, and development environments |
|  |  | shall be identified, and controls shall be implemented to prevent operational |
|  |  | issues, including: |
|  |  | 1. along with removing accounts, a review of all custom code preceding the |
|  |  | release to production or to customers must be completed in order to |
|  |  | identify any possible coding vulnerability, to include at least the following: |
|  |  | i. code changes are reviewed by individuals other than the |
|  |  | originating code author, and by individuals knowledgeable about |
|  |  | code-review techniques and secure coding practices; |
|  |  | ii. code reviews ensure code is developed according to secure |
|  |  | coding guidelines; |
|  |  | iii. appropriate corrections are implemented prior to release; and |
|  |  | iv. code-review results are reviewed and approved by management |
|  |  | prior to release; |
|  |  | 2. test data and accounts shall be removed completely before the application |
|  |  | is placed into a production state. |
|  |  | 3. organizations shall remove all custom application accounts, user IDs, and |
|  |  | passwords before applications go from development to production or are |
|  |  | released to customers |
|  |  | 4. rules for the transfer of software from development to operational status |
|  |  | shall be defined and documented; |
|  |  | 5. development and operational software shall run on different systems or |
|  |  | computer processors and in different domains or directories; |
|  |  | 6. compilers, editors, and other development tools or system utilities shall |

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|  |  |
| --- | --- |
|  | not be accessible from operational systems when not required; |
|  | 7. the test system environment shall emulate the operational system |
|  | environment as closely as possible; |
|  | 8. users shall use different user profiles for operational and test systems, |
|  | and menus shall display appropriate identification messages to reduce the |
|  | risk of error; and |
|  | 9. covered information shall not be copied into the test system environment. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 18.6 |
| **Mapping:** | CMSRs 2013v2 CM-2 (HIGH) |
|  |
|  | CRR V2016 CCM:G1.Q1 |
|  | CSA CCM v3.0.1 IVS-08 |
|  | FedRAMP CM-2 |
|  | IRS Pub 1075 v2014 9.3.5.2 |
|  | IRS Pub 1075 v2014 9.4.2 (E.10) |
|  | ISO 27799-2008 7.7.1.4 |
|  | ISO/IEC 27002:2005 10.1.4 |
|  | ISO/IEC 27002:2013 12.1.4 |
|  | MARS-E v2 CM-2 |
|  | NIST Cybersecurity Framework PR.DS-7 |
|  | NIST SP 800-53 R4 CM-2 |
|  | NIST SP 800-53 R4 SA-10 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 6.3.1 |
|  | PCI DSS v3.2 6.3.2 |
|  | PCI DSS v3.2 6.4.1 |
|  | PCI DSS v3.2 6.4.3 |
|  | PCI DSS v3.2 6.4.4 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

All systems supporting development and pre-production testing are connected to an isolated network separated from production systems. Network traffic into and out of the development and pre-production testing environment is only permitted to facilitate system testing, and is restricted by source and destination access control lists (ACLs) as well as ports and protocols.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** Whenever FTI is located on both production and test environments, these environments are to be segregated, especially in the development stages of the

data warehouse.

**Level HIX Implementation Requirements**

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**Level HIX Implementation:**

All systems supporting development and pre-production testing are connected to an isolated network separate from production systems. Network traffic into and out of the development and pre-production testing environment is only permitted to facilitate system testing, and is restricted by source and destination access control lists as well as ports and protocols.

**Objective Name: 09.02 Control Third Party Service Delivery**

**Control**

**Objective:** To ensure that third party service providers maintain security requirements and levels of service as part of their service delivery agreements.

**Control Reference: 09.e Service Delivery**

**Control Specification:**

It shall be ensured that the security controls, service definitions and delivery levels included in the third party service delivery agreement are implemented, operated and maintained by the third party.

\*Required for HITRUST Certification CSF v9

|  |  |  |
| --- | --- | --- |
| **Factor Type:** | System |  |
|  |  | |
| **Topics:** | Monitoring; Requirements (Legal and Contractual); Services and Acquisitions; | |
|  | Third Parties and Contractors | |
|  |  | |
| **Level 1 Implementation Requirements** | | |
|  |  |  |
| **Level 1** |  |  |
| **Organizational Factors:** |  |  |
|  |  |  |
| **Level 1** | Applicable to all Systems | |
| **System Factors:** |
|  |  |
|  |  | |
| **Level 1** | Subject to HITRUST De-ID Framework Requirements | |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code | |
|  |  |  |
| **Level 1 Implementation:** | In an agreed service arrangement, service delivery by a third party (e.g., a | |
|  |
|  | certification authority for the provision of cryptographic services) shall include: | |
|  | 1. | service definitions; |
|  | 2. | delivery levels; |
|  | 3. | security controls, including third-party personnel security, information |
|  |  | classification, transmission, and authorization; |
|  | 4. | aspects of service management, including monitoring, auditing, impacts to |
|  |  | the organizations resilience, and change management; and |
|  | 5. | issues of liability, reliability of services and response times for the |
|  |  | provision of services. |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 201 CMR 17.03(2)(f)(2) | |
|  |  |  |

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| --- | --- | --- |
|  | **Mapping:** | AICPA C1.4 |
|  |  | AICPA C1.5 |
|  |  | AICPA CC2.3 |
|  |  | CMSRs 2013v2 SA-9 (HIGH) |
|  |  | CRR V2016 EDM:G4.Q1 |
|  |  | CSA CCM v3.0.1 STA-09 |
|  |  | FFIEC IS v2016 A.6.31(c) |
|  |  | FFIEC IS v2016 A.6.31(g) |
|  |  | GDPR Article 28(2) |
|  |  | GDPR Article 32(4) |
|  |  | HIPAA § 164.308(b)(1) |
|  |  | HIPAA § 164.308(b)(3) |
|  |  | HIPAA § 164.314(a)(1) |
|  |  | HIPAA § 164.314(a)(2)(i) |
|  |  | HIPAA § 164.314(a)(2)(ii) |
|  |  | ISO 27799-2008 7.7.2 |
|  |  | ISO/IEC 27002:2005 10.2.1 |
|  |  | ISO/IEC 27002:2013 15.1.1 |
|  |  | NIST Cybersecurity Framework DE.CM-6 |
|  |  | NIST Cybersecurity Framework PR.AT-3 |
|  |  | NIST SP 800-53 R4 SA-9 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** |  |
|  | **Organizational Factors:** | Multi-State |
|  |  | Off-shore (outside U.S.) |
|  |  |  |
|  | **Level 2** | Number of Interfaces: 25 to 75 |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  |  | Number of users of the system: 500 to 5,500 |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to FTC Red Flags Rule |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall develop, disseminate, and review/update annually a list of |
|  |  | current service providers, which includes a description of the services provided. |
|  |  | In the case of outsourcing arrangements, the organization shall plan the |
|  |  | necessary transitions (of information, information processing systems, and |

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|  |  |
| --- | --- |
|  | anything else that needs to be moved), and shall ensure that security is |
|  | maintained throughout the transition period. The service provider shall protect the |
|  | company's data with reasonable controls (e.g., policies and procedures) designed |
|  | to detect, prevent, and mitigate risk. |
|  | The organization shall define and document oversight (e.g., governmental, |
|  | organizational) and user roles and responsibilities with regard to external |
|  | information system services. |
|  | The organization shall ensure that the third party maintains sufficient service |
|  | capabilities together with workable plans designed to ensure that agreed service |
|  | continuity levels are maintained following major service failures or disaster. |
|  | The organization restricts the location of facilities that process, transmit or store |
|  | covered information (e.g., to those located in the United States), as needed, |
|  | based on its legal, regulatory, contractual and other security and privacy-related |
|  | obligations. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 16 CFR Part §681 Appendix A VI(c) |
| **Mapping:** | 16 CFR Part §681.1 (e)(4) |
|  |
|  | CMSRs 2013v2 SA-9 (HIGH) |
|  | CRR V2016 EDM:G4.Q2 |
|  | FedRAMP SA-9 |
|  | FedRAMP SA-9(5) |
|  | FFIEC IS v2016 A.6.31(a) |
|  | FFIEC IS v2016 A.6.31(g) |
|  | HIPAA § 164.308(b)(1) |
|  | HIPAA § 164.308(b)(3) |
|  | HIPAA § 164.314(a)(1) |
|  | HIPAA § 164.314(a)(2)(i) |
|  | HIPAA § 164.314(a)(2)(ii) |
|  | HIPAA § 164.314(b)(2)(i) |
|  | IRS Pub 1075 v2014 9.3.15.7 |
|  | ISO/IEC 27001:2013 8.1 |
|  | ISO/IEC 27002:2005 10.2.1 |
|  | ISO/IEC 27002:2013 15.2.1 |
|  | MARS-E v2 SA-9 |
|  | NIST Cybersecurity Framework DE.AE-4 |
|  | NIST Cybersecurity Framework DE.CM-6 |
|  | NIST Cybersecurity Framework ID.AM-4 |
|  | NIST Cybersecurity Framework PR.AT-3 |
|  | NIST Cybersecurity Framework PR.DS-3 |
|  | NIST SP 800-53 R4 SA-9 |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 12.8 |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  | PCI DSS v3.2 | 12.8.1 |
|  | PCI DSS v3.2 | 2.6 |
|  |  |  |
| **Level De-ID Data** | **Implementation Requirements** | |
| **Environment** |
|  |  |  |
| **Level De-ID Data** | If required in the applicable jurisdiction, health information including de-identified | |
| **Environment** |
| **Implementation:** | data is not accessed from off-shore; nor is such data received, stored, processed | |
|  | or disposed via information technology systems located off-shore. Otherwise the | |
|  | entity must justify the off-shore disclosure. | |
|  |  |  |

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The organization restricts the location of information systems that receive, process, store, or transmit FTI to areas within the United States territories, embassies, or military installations. FTI may not be accessed by agency employees, agents, representatives or contractors located outside of the United States or its territories, i.e., "off-shore"

**Level HIX Implementation Requirements Level HIX Implementation:**

The outsourcing of information system services outside the continental U.S. must be authorized by the CIO of CMS, and the service contract or agreement must include language requiring the provider to be subject to U.S. Federal laws and regulations protecting personally identifiable information. Depending on the outcome of the risk assessment, the organization may need to restrict the location of information systems that receive, process, store, or transmit PII to areas within United States territories, embassies, or military installations.

The organization:

1. Notifies CMS of plans to outsource information system services prior to the awarding of a contract;
2. Requires that providers of external information system services comply with organizational security requirements (consistent with 45 CFR

155.260(b)), define security and privacy roles and responsibilities in the service contract or agreement, and employ appropriate security controls in accordance with applicable federal laws, Executive Orders, directives, policies, regulations, standards, and guidance;

1. Defines and documents oversight and user roles and responsibilities with regard to external information system services;
2. Ensures that service level agreements define expectations of performance, describe measurable outcomes, and identify remedies and response requirements for any identified instance of non-compliance;
3. Employs defined process, methods, and techniques (defined in the applicable security plan) to monitor security and privacy control compliance by external service providers on an ongoing basis; and
4. Notifies CMS at least forty-five (45) days prior to transmitting data into an external information service environment.

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**Control Reference: 09.f Monitoring and Review of Third Party Services**

|  |  |
| --- | --- |
| **Control Specification:** | The services, reports and records provided by the third party shall be regularly |
|  |
|  | monitored and reviewed, and audits shall be carried out regularly to govern and |
|  | maintain compliance with the service delivery agreements. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; Incident Response; |
|  | Requirements (Legal and Contractual); Services and Acquisitions; Third Parties |
|  | and Contractors |
|  |  |

**Level 1 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all Systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | A periodic review of service level agreements (SLAs) shall be conducted at least |
|  |
|  | annually and compared against the monitoring records. |
|  |  |
| **Level 1** | 16 CFR Part §681 Appendix A VI(c) |
| **Control Standard** | 16 CFR Part §681.1 (e)(4) |
| **Mapping:** | AICPA C1.5 |
|  |
|  | AICPA CC4.1 |
|  | AICPA CC6.2 |
|  | CRR V2016 EDM:G4.Q1 |
|  | CRR V2016 EDM:G4.Q2 |
|  | CRR V2016 EDM:MIL2.Q1 |
|  | CSA CCM v3.0.1 STA-09 |
|  | HIPAA § 164.308(b)(1) |
|  | HIPAA § 164.308(b)(3) |
|  | HIPAA § 164.314(a)(1) |
|  | HIPAA § 164.314(a)(2)(i) |
|  | HIPAA § 164.314(a)(2)(ii) |
|  | ISO 27799-2008 7.7.2 |
|  | ISO/IEC 27002:2005 10.2.2 |
|  | ISO/IEC 27002:2013 15.2.1 |
|  | NIST Cybersecurity Framework DE.CM-6 |
|  | NIST Cybersecurity Framework PR.AT-3 |
|  |  |

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|  |  |
| --- | --- |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 12.8 |
|  | PCI DSS v3.2 12.8.4 |
|  |  |
| **Level 2 Implementation Requirements** | |
|  |  |
| **Level 2** |  |
| **Organizational Factors:** | Multi-State |
|  |  |
| **Level 2** | Number of Interfaces: 25 to 75 |
| **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  | Number of users of the system: 500 to 5,500 |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to FTC Red Flags Rule |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization monitors security control compliance by external service |
|  | providers on an ongoing basis. Monitoring shall involve a service management |
|  | relationship and process between the organization and the third party. |
|  | Service performance levels shall be monitored to check adherence to the |
|  | agreements. Service reports produced by the third party shall be reviewed and |
|  | regular progress meetings shall be arranged as required by the agreements. Third |
|  | party audit trails and records of security events, operational problems, failures, |
|  | tracing of faults and disruptions related to the service delivered shall be reviewed. |
|  | Information about information security incidents shall be provided to the incident |
|  | response team. This information shall be reviewed by the third party that |
|  | experienced the incident and the organization which the third party provides |
|  | services to, as required by the agreements and any supporting guidelines and |
|  | procedures. Any identified problems shall be resolved and reviewed by the |
|  | organization as noted above. |
|  | The organization shall monitor the network service features and service levels to |
|  | detect abnormalities and violations. The organization shall periodically audit the |
|  | network services to ensure that network service providers implement the required |
|  | security features and meet the requirements agreed with management, including |
|  | with new and existing regulations. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(3) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 16 CFR Part §681 Appendix A VI(c) |
|  |
|  | 16 CFR Part §681.1 (e) |
|  | 16 CFR Part §681.1 (e)(4) |
|  |  |

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CMSRs 2013v2 SA-9 (HIGH)

CRR V2016 EDM:G4.Q2

CRR V2016 EDM:G4.Q3

CRR V2016 EDM:G4.Q4

CSA CCM v3.0.1 STA-09

FedRAMP SA-9

FFIEC IS v2016 A.6.21(b)

HIPAA § 164.308(b)(1)

HIPAA § 164.308(b)(3)

HIPAA § 164.314(a)(1)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.314(a)(2)(ii)

IRS Pub 1075 v2014 9.3.15.7

ISO 27799-2008 7.7.2

ISO/IEC 27001:2013 8.1

ISO/IEC 27002:2005 10.2.2

ISO/IEC 27002:2005 10.6.2

ISO/IEC 27002:2013 13.1.2

ISO/IEC 27002:2013 15.2.1

MARS-E v2 SA-9

NIST Cybersecurity Framework DE.CM-6

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework RS.CO-4

NIST Cybersecurity Framework RS.MI-2

NIST SP 800-53 R4 SA-9

NRS 603A.215.1

PCI DSS v3.2 12.8

PCI DSS v3.2 12.8.4

PCI DSS v3.2 2.6

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** |  |
|  | **Organizational Factors:** | Off-shore (outside U.S.) |
|  |  |  |
|  | **Level 3** | Number of Interfaces: Greater than 75 |
|  | **System Factors:** | Number of transactions per day: Greater than 85,000 |
|  |  | Number of users of the system: Greater than 5,500 |
|  |  |  |
|  | **Level 3** | Subject to PCI Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization shall maintain sufficient overall control and visibility into all |
|  |  | security aspects for covered and critical information or information processing |
|  |  | systems accessed, processed or managed by a third party. The organization shall |

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ensure they retain visibility into security activities such as change management, identification of vulnerabilities, and information security incident reporting and response through a clearly defined reporting process, format and structure.

**Level 3**

**Control Standard**

**Mapping:**

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization employs defined processes, methods and techniques (defined in the applicable security plan) to monitor security control compliance by external service providers on an ongoing basis.

**Control Reference: 09.g Managing Changes to Third Party Services**

|  |  |
| --- | --- |
| **Control Specification:** | Changes to the provision of services, including maintaining and improving existing |
|  |
|  | information security policies, procedures and controls, shall be managed, taking |
|  | account of the criticality of business systems and processes involved and re- |
|  | assessment of risks. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Risk Management and Assessments; Services and Acquisitions; Third Parties and |
|  | Contractors |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all Systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The organization shall ensure that third-party organizations use appropriate |
|  |
|  | change management procedures for any changes to a third-party service or |
|  | organizational system (see 9.a and 10.k). |
|  |  |
| **Level 1** | AICPA C1.6 |
| **Control Standard** | AICPA CC7.1 |
| **Mapping:** | AICPA CC7.4 |
|  |
|  | CMSRs 2013v2 SA-9 (HIGH) |
|  | ISO 27799-2008 7.7.2 |
|  | ISO/IEC 27001:2013 8.1 |
|  | ISO/IEC 27002:2005 10.2.3 |
|  | ISO/IEC 27002:2013 15.2.2 |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  | MARS-E v2 SA-9 | |
|  | NIST Cybersecurity Framework ID.BE-1 | |
|  | NIST Cybersecurity Framework PR.AT-3 | |
|  | NIST SP 800-53 R4 SA-9 | |
|  |  | |
| **Level 2 Implementation Requirements** | | |
|  |  |  |
| **Level 2** |  |  |
| **Organizational Factors:** | Multi-State |  |
|  | Off-shore (outside U.S.) | |
|  |  | |
| **Level 2** | Number of Interfaces: 25 to 75 | |
| **System Factors:** | Number of transactions per day: 6,750 to 85,000 | |
|  | Number of users of the system: 500 to 5,500 | |
|  |  |  |
| **Level 2** | Subject to FTC Red Flags Rule | |
| **Regulatory Factors:** |
|  |  |
|  |  |  |
| **Level 2 Implementation:** | Level 1 plus: |  |
|  |  |
|  | Change management on a third-party service shall include: | |
|  | 1. the assessment and explicit recording of the potential impacts, including | |
|  | security impacts, of such changes; | |
|  | 2. evaluating and implementing changes made by the organization for: | |
|  | i. | enhancements to the current services offered; |
|  | ii. development of any new applications and systems; | |
|  | iii. modifications or updates of the organization's policies and | |
|  |  | procedures; and |
|  | iv. new controls to resolve information security incidents and to | |
|  |  | improve security; |
|  | 3. evaluating and implementing changes in third-party services for: | |
|  | i. | changes and enhancement to networks; |
|  | ii. use of new technologies; | |
|  | iii. adoption of new products or newer versions/releases; | |
|  | iv. | new development tools and environments; |
|  | v. | changes to physical location of service facilities; and |
|  | vi. | change of vendors. |
|  |  | |
| **Level 2** | 16 CFR Part §681 Appendix A VI(c) | |
| **Control Standard** | 16 CFR Part §681.1 (e)(4) | |
| **Mapping:** | ISO/IEC 27001:2013 8.1 | |
|  |
|  | ISO/IEC 27002:2005 10.2.3 | |
|  | ISO/IEC 27002:2013 15.2.2 | |
|  | NIST Cybersecurity Framework ID.BE-1 | |
|  | NIST Cybersecurity Framework ID.RA-4 | |
|  | NIST SP 800-53 R4 SA-9 | |
|  |  |  |

**Objective Name: 09.03 System Planning and Acceptance**

|  |  |
| --- | --- |
| **Control** | To ensure that systems meet the businesses current and projected needs to |
| **Objective:** |

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minimize failures.

**Control Reference: 09.h Capacity Management**

|  |  |
| --- | --- |
| **Control Specification:** | The availability of adequate capacity and resources shall be planned, prepared, |
|  | and managed to deliver the required system performance. Projections of future |
|  | capacity requirements shall be made to mitigate the risk of system overload. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | IT Organization and Management Roles and Responsibilities; Monitoring; |
|  | Planning |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The use of information and information system resources shall be monitored, and |
|  |
|  | projections made of future capacity requirements to ensure adequate systems |
|  | performance. |
|  | Organizations shall allocate sufficient storage capacity to reduce the likelihood of |
|  | exceeding capacity and reduce the impact on network infrastructure, e.g., |
|  | bandwidth. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA A1.1 |
|  |
|  | AICPA C1.7 |
|  | AICPA CC4.1 |
|  | CMSRs 2013v2 AU-4 (HIGH) |
|  | CRR V2016 CCM:G1.Q3 |
|  | CSA CCM v3.0.1 IVS-04 |
|  | FedRAMP AU-4 |
|  | FedRAMP SC-5 |
|  | FFIEC IS v2016 A.8.1(p) |
|  | GDPR Article 32(1)(b) |
|  | HIPAA § 164.312(b) |
|  | IRS Pub 1075 v2014 9.3.3.5 |
|  | ISO/IEC 27002:2005 10.3.1 |
|  | ISO/IEC 27002:2013 12.1.3 |
|  | MARS-E v2 AU-4 |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  | NIST Cybersecurity Framework PR-DS-4 | |
|  | NIST SP 800-53 R4 AU-4 | |
|  |  | |
| **Level 2 Implementation Requirements** | | |
|  |  |  |
| **Level 2** |  |  |
| **Organizational Factors:** | Multi-State | |
|  | Off-shore (outside U.S.) | |
|  |  | |
| **Level 2** | Number of Interfaces: 25 to 75 | |
| **System Factors:** | Number of transactions per day: 6,750 to 85,000 | |
|  | Number of users of the system: 500 to 5,500 | |
|  |  | |
| **Level 2** | Subject to CA Civil Code § 1798.81.5 | |
| **Regulatory Factors:** | Subject to CRR V2016 | |
|  | Subject to FedRAMP Certification | |
|  | Subject to FISMA Compliance | |
|  | Subject to IRS Pub 1075 Compliance | |
|  | Subject to MARS-E Requirements | |
|  | Subject to the CMS Minimum Security Requirements (High) | |
|  | Subject to the EU GDPR | |
|  |  |  |
| **Level 2 Implementation:** | Level 1 plus: | |
|  |
|  | Capacity and monitoring procedures shall include: | |
|  | 1. | the identification of capacity requirements for each new and ongoing |
|  |  | system/service; |
|  | 2. | the projection of future capacity requirements, taking into account current |
|  |  | use, audit record storage requirements, projected trends, and anticipated |
|  |  | changes in business requirements; and |
|  | 3. | the system monitoring and tuning to ensure and improve the availability |
|  |  | and effectiveness of current systems. |
|  | The information system shall take the following additional actions in response to | |
|  | an audit storage capacity issue: | |
|  | 1. | shutdown the information system, |
|  | 2. | stop generating audit records, or |
|  | 3. | overwrite the oldest records, in the case that storage media is unavailable. |
|  | The organization shall protect against, or limit the effects of the types of denial of, | |
|  | service attacks defined in NIST SP 800-63 Rev. 1, Computer Security Incident | |
|  | Handling Guide, and the following Websites: | |
|  | 1. | SANS Organization www.sans.org/dosstep; |
|  | 2. | SANS Organization's Roadmap to Defeating DDoS |
|  |  | www.sans.org/dosstep/roadmap.php; and |
|  | 3. | NIST CVE List National Vulnerability Database: |
|  |  | http://nvd.nist.gov/home.cfm. |
|  |  | |
| **Level 2** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | AICPA C1.7 | |
|  |
|  |  |  |

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CIS CSC v6 6.3

CMSRs 2013v2 AU-5 (HIGH)

CMSRs 2013v2 SC-5 (HIGH)

CRR V2016 CCM:G1.Q3

CSA CCM v3.0.1 IVS-04

FedRAMP AU-5

FedRAMP SC-5

GDPR Article 32(1)(b)

HIPAA § 164.312(b)

IRS Pub 1075 v2014 9.3.16.4

ISO 27799-2008 7.7.3.1

ISO/IEC 27002:2005 10.3.1

ISO/IEC 27002:2013 12.1.3

MARS-E v2 AU-5

MARS-E v2 SC-5

NIST Cybersecurity Framework ID.BE-1

NIST Cybersecurity Framework PR.PT-1

NIST Cybersecurity Framework PR-DS-4

NIST SP 800-53 R4 AU-4

NIST SP 800-53 R4 AU-5

NIST SP 800-53 R4 SC-5

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The information system protects the availability of resources by allocating resources by priority or quota protection safeguards.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** The agency must allocate audit record storage capacity to retain audit records for the required audit retention period of seven (7) years.

**Control Reference: 09.i System Acceptance**

|  |  |
| --- | --- |
| **Control Specification:** | Acceptance criteria for new information systems, upgrades, and new versions |
|  |
|  | shall be established and suitable tests of the system(s) carried out during |
|  | development and prior to acceptance to maintain security. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Awareness and Training; Documentation and Records; IT Organization and |
|  | Management Roles and Responsibilities |
|  |  |

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**Level 1 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 1 Implementation:** | Managers shall ensure that the requirements and criteria for acceptance of new |
|  |  |
|  |  | systems are clearly defined, agreed, documented, and tested. New information |
|  |  | systems, upgrades, and new versions shall only be migrated into production after |
|  |  | obtaining formal acceptance from management. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Control Standard** | AICPA CC7.4 |
|  | **Mapping:** | CMSRs 2013v2 CM-3 (HIGH) |
|  |  |
|  |  | CSA CCM v3.0.1 CCC-01 |
|  |  | CSA CCM v3.0.1 CCC-05 |
|  |  | FedRAMP CM-3 |
|  |  | FedRAMP SA-4 |
|  |  | HIPAA § 164.308(a)(8) |
|  |  | IRS Pub 1075 v2014 9.3.15.4 |
|  |  | IRS Pub 1075 v2014 9.3.5.3 |
|  |  | ISO/IEC 27002:2005 10.3.2 |
|  |  | ISO/IEC 27002:2005 12.5.1 |
|  |  | ISO/IEC 27002:2013 14.2.2 |
|  |  | ISO/IEC 27002:2013 14.2.9 |
|  |  | MARS-E v2 CM-3 |
|  |  | MARS-E v2 SA-4 |
|  |  | NIST Cybersecurity Framework PR.IP-2 |
|  |  | NIST SP 800-53 R4 CM-3 |
|  |  | NIST SP 800-53 R4 SA-4 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** |  |
|  | **Organizational Factors:** | Multi-State |
|  |  | Off-shore (outside U.S.) |
|  |  |  |
|  | **Level 2** | Number of Interfaces: 25 to 75 |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  |  | Number of users of the system: 500 to 5,500 |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |

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Subject to IRS Pub 1075 Compliance

Subject to MARS-E Requirements

Subject to the CMS Minimum Security Requirements (High)

**Level 2 Implementation:**

Level 1 plus:

The organization requires the developer of the information system, system component, or information system service to:

1. Create and implement a security assessment plan;
2. Perform unit, integration, system and regression testing/evaluation in accordance with organization-defined requirements for depth and coverage;
3. Produce evidence of the execution of the security assessment plan and the results of the security testing/evaluation;
4. Implement a verifiable flaw remediation process; and
5. Correct flaws identified during security testing/evaluation.

The following actions shall be carried out prior to formal acceptance being provided:

1. an agreed set of security controls are in place;
2. consultation with affected persons, or representatives of affected groups, at all phases of the process;
3. preparation and testing of routine operating procedures to defined standards;
4. effective manual procedures;
5. evidence that installation of the new system will not adversely affect existing systems, particularly at peak processing times, such as month end;
6. evidence that an analysis has been carried out on the effect the new system has on the overall security of the organization;
7. training in the operation or use of new systems;
8. error recovery and restart procedures, and contingency plans;
9. ease of use (as this affects user performance and avoids human error); and
10. training in the new operation(s).

Organizations shall ensure that the IT systems employed contain application functionality that enforces the approval of processes by different role holders. The impact of the installation of any new system shall be thoroughly analyzed and tested with the coverage of the extreme operational conditions of the current systems.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CM-7 (HIGH) |
| **Mapping:** | CMSRs 2013v2 SA-11 (HIGH) |
|  |
|  | CRR V2016 CCM:G2.Q7 |
|  | CSA CCM v3.0.1 CCC-03 |
|  | FedRAMP CM-7 |
|  | FedRAMP SA-11 |

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FFIEC IS v2016 A.6.28(a)

FFIEC IS v2016 A.6.28(b)

HIPAA § 164.308(a)(8)

IRS Pub 1075 v2014 9.3.15.9

IRS Pub 1075 v2014 9.3.5.7

ISO 27799-2008 7.7.3.2

ISO/IEC 27002:2005 10.3.2

ISO/IEC 27002:2013 14.2.9

MARS-E v2 CM-7

MARS-E v2 SA-11

NIST Cybersecurity Framework PR.IP-2

NIST SP 800-53 R4 CA-2

NIST SP 800-53 R4 CA-6

NIST SP 800-53 R4 CM-4

NIST SP 800-53 R4 CM-7

NIST SP 800-53 R4 SA-10

NIST SP 800-53 R4 SA-11

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization requires the developer of the information system, system component, or information system service to:

1. Create and implement a security assessment plan in accordance with, but not limited to, current CMS procedures;
2. Perform unit; integration; system; regression testing/evaluation in accordance with the CMS eXpedited Life Cycle (XLC);
3. Produce evidence of the execution of the security assessment plan and the results of the security testing/evaluation;
4. Implement a verifiable flaw remediation process; and
5. Correct flaws identified during security testing/evaluation.

If the security control assessment results are used in support of the security authorization process for the information system, the organization ensures that no security relevant modifications of the information systems have been made subsequent to the assessment and after selective verification of the results.

The organization uses hypothetical data when executing test scripts or in a test environment that is configured to comply with the security controls as if it is a production environment.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** The agency must submit a request to the IRS Office of Safeguards for authority to use live data for testing, providing a detailed explanation of the safeguards in

place to protect the FTI over the Internet to a customer.

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To use a VoIP network that provides FTI to a customer, the agency must ensure security testing is conducted on the VoIP system prior to implementation with FTI.

**Level HIX Implementation Requirements Level HIX Implementation:**

If the security control assessment results are used in support of the security authorization process for the information system, the organization ensures that no security relevant modifications of the information systems have been made subsequent to the assessment and after selective verification of the results.

The organization uses hypothetical data when executing test scripts or in a test environment that is configured to comply with the security controls as if it is a production environment.

**Objective Name: 09.04 Protection Against Malicious and Mobile Code**

**Control**

**Objective:** Ensure that integrity of information and software is protected from malicious or unauthorized code.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 09.j Controls Against Malicious Code** | |
|  |  |  |
|  | **Control Specification:** | Detection, prevention, and recovery controls shall be implemented to protect |
|  |  |
|  |  | against malicious code, and appropriate user awareness procedures on malicious |
|  |  | code shall be provided. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Contingency Planning; Policies and Procedures; Viruses |
|  |  | and Malware |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to HITRUST De-ID Framework Requirements |
|  | **Regulatory Factors:** | Subject to State of Massachusetts Data Protection Act |
|  |  | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | Protection against malicious code shall be based on malicious code detection and |
|  |  |
|  |  | repair software, security awareness, and appropriate system access and change |
|  |  | management controls. |
|  |  |  |

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Formal policies shall be required, and technologies implemented for the timely installation and upgrade of the protective measures, including the installation and regular, automatic updating of anti-virus or anti-spyware software, including virus definitions, whenever updates are available. Periodic reviews/scans shall be required of installed software and the data content of systems to identify and, where possible, remove any unauthorized software. However, server environments for which the server software developer specifically recommends not installing host-based anti-virus and anti-spyware software, may address the requirement via a network-based malware detection (NBMD) solution. If an NBMD solution is used, the organization shall also:

1. disable USB ports,
2. prohibit the use of writable media (e.g., DVD-R),
3. restrict the use of read-only media (e.g., DVD-ROM) to legitimate commercial sources for legitimate business reasons (e.g., Linux installation disks), and
4. allow only whitelisted software to run on the system.

The NBMD solution must be installed in-band, whether or not blocking is enabled. Cloud-based implementations with blocking enabled is preferred. If the organization chooses to implement a local solution and/or disables blocking, the decision must be supported by a formal risk analysis, and any additional risk formally accepted by management as required by its risk management policy.

The organization employs anti-malware software that offers a centralized infrastructure that compiles information on file reputations or has administrators manually push updates to all machines. After applying an update, automated systems verify that each system has received its signature update.

Procedures shall be defined for response to identification of malicious code or unauthorized software. Checking anti-virus or anti-spy software shall generate audit logs of checks performed.

The checks carried out by the malicious code detection and repair software to scan computers and media shall include:

1. checking any files on electronic or optical media, and files received over networks, for malicious code before use;
2. checking electronic mail attachments and downloads for malicious code or file types that are unnecessary for the organization's business before use; this check shall be carried out at different places (e.g., at electronic mail servers, desk top computers and when entering the network of the organization); and
3. checking Web traffic, such as HTML, JavaScript, and HTTP, for malicious code; and
4. checking removable media (e.g., USB tokens and hard drives, CDs/DVDs, FireWire devices, and external serial advanced technology attachment devices) when inserted.

Formal policies shall be required prohibiting the use or installation of unauthorized software, including a prohibition of obtaining data and software from external networks.

User awareness and training on these policies and methods shall be provided for

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|  |  |
| --- | --- |
|  | all users on a regular basis. |
|  | Bring your own device (BYOD) users are required to use anti-malware software |
|  | (where supported). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.04(7) |
|  |
|  | AICPA CC5.8 |
|  | CIS CSC v6 7.7 |
|  | CIS CSC v6 7.8 |
|  | CIS CSC v6 8.1 |
|  | CIS CSC v6 8.3 |
|  | CMSRs 2013v2 CM-11 (HIGH) |
|  | CMSRs 2013v2 SI-3 (HIGH) |
|  | COBIT 4.1 DS5.9 |
|  | COBIT 5 DSS05.01 |
|  | CRR V2016 VM:G1.Q3 |
|  | CSA CCM v3.0.1 MOS-17 |
|  | CSA CCM v3.0.1 TVM-01 |
|  | De-ID Framework v1 Anti-malware: General |
|  | FedRAMP CM-11 |
|  | FedRAMP SI-3 |
|  | FedRAMP SI-3 |
|  | FFIEC IS v2016 A.6.17 |
|  | FFIEC IS v2016 A.8.1(a) |
|  | HIPAA § 164.308(a)(5)(i) |
|  | HIPAA § 164.308(a)(5)(ii)(B) |
|  | IRS Pub 1075 v2014 9.3.17.3 |
|  | IRS Pub 1075 v2014 9.3.5.11 |
|  | ISO 27799-2008 7.7.4.1 |
|  | ISO/IEC 27002:2005 10.4.1 |
|  | ISO/IEC 27002:2013 12.2.1 |
|  | ISO/IEC 27002:2013 12.6.2 |
|  | MARS-E v2 CM-11 |
|  | MARS-E v2 PE-2 |
|  | MARS-E v2 SI-3 |
|  | NIST Cybersecurity Framework DE.CM-4 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST Cybersecurity Framework PR.AT-1 |
|  | NIST SP 800-53 R4 CM-11 |
|  | NIST SP 800-53 R4 SI-3 |
|  | NRS 603A.215.1 |
|  |  |

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PCI DSS v3.2 5.1

PCI DSS v3.2 5.1.1

PCI DSS v3.2 5.2

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Critical system file scans are performed during system boot and every twelve (12) |
|  |  | hours. Malicious code is blocked and quarantined, and an alert is sent to |
|  |  | administrators in response to malicious code detection. The organization shall |
|  |  | address the receipt of false positives during malicious code detection and |
|  |  | eradication and the resulting potential impact on the availability of the information |
|  |  | system. |
|  |  | Malicious code protection mechanisms shall be centrally managed. |
|  |  | For systems considered to be not commonly affected by malicious software, the |
|  |  | organization shall perform periodic assessments to identify and evaluate evolving |
|  |  | malware threats in order to confirm whether such systems continue to not require |
|  |  | anti-virus software. |
|  |  | The organization shall: |
|  |  | 1. employ malicious code protection mechanisms at information system |
|  |  | entry and exit points to detect and eradicate malicious code; |
|  |  | 2. implement spam protection mechanisms at information system entry and |

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|  |  |
| --- | --- |
|  | exit points to detect and take action on unsolicited messages transported |
|  | by email, email attachments, Web accesses, or other common means; |
|  | 3. automatically update malicious code and spam protection mechanisms |
|  | (including signature definitions) when new releases are available in |
|  | accordance with the organization's configuration management policy and |
|  | procedures; |
|  | 4. configure malicious code protection mechanisms to perform periodic |
|  | scans of the information system according to organization guidelines and |
|  | real-time scans of files from external sources at either endpoints or |
|  | network entry/exit points as the files are downloaded, opened, or |
|  | executed in accordance with organizational security policy; and block |
|  | malicious code, quarantine malicious code, or send alerts to administrator |
|  | in response to malicious code detection; and |
|  | 5. address the receipt of false positives during malicious code detection and |
|  | eradication and the resulting potential impact on the availability of the |
|  | information system. |
|  | Malicious code and spam protection mechanisms shall be centrally managed. |
|  | User functionality (including user interface services [e.g., Web services]) shall be |
|  | separated from information system management (e.g., database management |
|  | systems) functionality. |
|  | The information system must implement safeguards to protect its memory from |
|  | unauthorized code execution. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | CIS CSC v6 8.4 |
|  |
|  | CIS CSC v6 8.5 |
|  | CMSRs 2013v2 CM-11 (HIGH) |
|  | CMSRs 2013v2 SC-2 (HIGH) |
|  | CMSRs 2013v2 SI-3 (HIGH) |
|  | CMSRs 2013v2 SI-3(1) (HIGH) |
|  | CMSRs 2013v2 SI-3(2) (HIGH) |
|  | CMSRs 2013v2 SI-8 (HIGH) |
|  | CMSRs 2013v2 SI-8(1) (HIGH) |
|  | CMSRs 2013v2 SI-8(2) (HIGH) |
|  | COBIT 4.1 DS5.9 |
|  | COBIT 5 DSS05.01 |
|  | CSA CCM v3.0.1 TVM-01 |
|  | FedRAMP SC-18 |
|  | FedRAMP SC-2 |
|  | FedRAMP SC-2 |
|  | FedRAMP SC-2 |
|  | FedRAMP SI-16 |
|  | FedRAMP SI-3 |
|  |  |

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FedRAMP SI-3(1)

FedRAMP SI-3(2)

FedRAMP SI-8

FedRAMP SI-8(1)

FedRAMP SI-8(2)

FFIEC IS v2016 A.6.17

FFIEC IS v2016 A.8.1(a)

HIPAA § 164.308(a)(5)(ii)(B)

IRS Pub 1075 v2014 9.3.16.2

IRS Pub 1075 v2014 9.3.17.10

IRS Pub 1075 v2014 9.3.17.3

IRS Pub 1075 v2014 9.3.17.6

IRS Pub 1075 v2014 9.3.5.11

IRS Pub 1075 v2014 9.4.3

ISO/IEC 27002:2005 10.4.1

ISO/IEC 27002:2013 12.2.1

MARS-E v2 DM-2

MARS-E v2 SC-2

MARS-E v2 SI-16

MARS-E v2 SI-3

MARS-E v2 SI-3(1)

MARS-E v2 SI-3(2)

MARS-E v2 SI-7(7)

MARS-E v2 SI-8

MARS-E v2 SI-8(1)

NIST Cybersecurity Framework DE.CM-4

NIST Cybersecurity Framework PR.AC-4

NIST SP 800-53 R4 CM-11

NIST SP 800-53 R4 SC-2

NIST SP 800-53 R4 SI-16

NIST SP 800-53 R4 SI-16

NIST SP 800-53 R4 SI-3

NIST SP 800-53 R4 SI-3(1)

NIST SP 800-53 R4 SI-3(2)

NIST SP 800-53 R4 SI-8

NIST SP 800-53 R4 SI-8(1)

NIST SP 800-53 R4 SI-8(2)

NRS 603A.215.1

PCI DSS v3.2 5.1.2

PCI DSS v3.2 5.2

PCI DSS v3.2 5.3

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

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Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization implements the Sender Policy Framework (SPF) by deploying SPF records in DNS and enabling receiver-side verification in mail servers to lower the chance of spoofed email messages.

The organization enables anti-exploitation features (e.g., Data Execution Prevention [DEP] and Address Space Layout Randomization [ASLR]) in its operating systems, and applies anti-exploitation protections to a broader set of applications and executables by deploying additional capabilities, such as the Enhanced Migration Experience Toolkit. The requirements should be fully assessed by the organization prior to implementation due to potential difficulties (compatibility issues, etc.).

The organization uses network-based anti-malware tools to identify executables in all network traffic and uses techniques other than signature-based detection to identify and filter out malicious content before it arrives at the endpoint.

**Level CMS Implementation Requirements Level CMS Implementation:**

Desktop malicious code scanning software is configured to perform critical system file scans every twelve (12) hours.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The organization implements non-signature based malicious code detection mechanisms to provide safeguards against malicious code for which signatures do

not yet exist or for which existing signatures may not be effective.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The agency must:

1. Establish policies governing the installation of software by users;
2. Enforce software installation policies through automated methods; and
3. Monitor policy compliance on a continual basis.

Implement malware protection at one (1) or more points within the email delivery process to protect against viruses, worms, and other forms of malware.

The agency must configure virtualized desktops to provide the functionalities only required for operations, non-essential functionality, or components must be removed or prohibited.

**Level HIX Implementation Requirements**

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**Level HIX Implementation:**

Desktop malicious code scanning software is configured to perform critical system file scans every twenty-four (24) hours.

**Control Reference: 09.k Controls Against Mobile Code**

|  |  |
| --- | --- |
| **Control Specification:** | Mobile code shall be authorized before its installation and use, and the |
|  |
|  | configuration shall ensure that the authorized mobile code operates according to a |
|  | clearly defined security policy. All unauthorized mobile code shall be prevented |
|  | from executing. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization; Cryptography; Policies and Procedures; Viruses and Malware |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Automated controls (e.g., browser settings) shall be in place to authorize and |
|  |
|  | restrict the use of mobile code (e.g., Java, JavaScript, ActiveX, PDF, postscript, |
|  | Shockwave movies, and Flash animations). |
|  | A formal policy shall be in place for mobile code protection and to ensure |
|  | protective measures, including anti-virus and anti-spyware, are in place and |
|  | regularly updated. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC5.8 |
|  |
|  | CMSRs 2013v2 SC-18 (HIGH) |
|  | CMSRs 2013v2 Si-3 (HIGH) |
|  | CSA CCM v3.0.1 TVM-01 |
|  | CSA CCM v3.0.1 TVM-03 |
|  | FedRAMP SI-3 |
|  | FFIEC IS v2016 A.6.17 |
|  | HIPAA § 164.308(a)(5)(ii)(B) |
|  | IRS Pub 1075 v2014 9.3.16.12 |
|  | IRS Pub 1075 v2014 9.3.17.3 |
|  | ISO/IEC 27002:2005 10.4.1 |
|  |  |

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ISO/IEC 27002:2005 10.4.2

ISO/IEC 27002:2013 12.2.1

MARS-E v2 SC-18

MARS-E v2 Si-3

NIST Cybersecurity Framework DE.CM-4

NIST Cybersecurity Framework DE.CM-5

NIST SP 800-53 R4 SC-18

NIST SP 800-53 R4 Si-3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall formally address controls (e.g., policies and procedures) for |
|  | blocking any use and receipt (e.g., downloading and execution) of mobile codes. |
|  | The following actions shall be carried out to protect against mobile code |
|  | performing unauthorized actions: |
|  | 1. ensuring a logically isolated environment is established for executing |
|  | mobile code; |
|  | 2. activating technical measures as available on a specific system to ensure |
|  | mobile code is managed; and |
|  | 3. control the resources with access to mobile code. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CM-2(6) (HIGH) |
| **Mapping:** | CMSRs 2013v2 CM-3 (HIGH) |
|  |
|  |  |

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CMSRs 2013v2 SC-18 (HIGH)

CMSRs 2013v2 SC-2 (HIGH)

CMSRs 2013v2 SC-3 (HIGH)

CMSRs 2013v2 SC-3(1) (HIGH)

CMSRs 2013v2 SC-3(2) (HIGH)

CMSRs 2013v2 SC-3(3) (HIGH)

CMSRs 2013v2 SC-3(4) (HIGH)

CMSRs 2013v2 SC-3(5) (HIGH)

CRR V2016 VM:G1.Q4

CSA CCM v3.0.1 TVM-03

FedRAMP CM-3

FedRAMP SC-18

FedRAMP SC-2

FFIEC IS v2016 A.6.17

IRS Pub 1075 v2014 9.3.16.12

IRS Pub 1075 v2014 9.3.16.2

IRS Pub 1075 v2014 9.3.5.3

ISO 27799-2008 7.7.4.2

ISO/IEC 27002:2005 10.4.2

ISO/IEC 27002:2005 12.4.1

ISO/IEC 27002:2013 12.2.1

ISO/IEC 27002:2013 12.5.1

MARS-E v2 CM-3

MARS-E v2 SC-18

MARS-E v2 SC-2

NIST Cybersecurity Framework DE.CM-5

NIST Cybersecurity Framework PR.DS-7

NIST SP 800-53 R4 CM-2(6)

NIST SP 800-53 R4 CM-3

NIST SP 800-53 R4 SC-18

NIST SP 800-53 R4 SC-18(3)

NIST SP 800-53 R4 SC-2

NIST SP 800-53 R4 SC-3

**Level CMS Implementation Requirements Level CMS Implementation:**

The information system shall implement underlying hardware separation mechanisms to facilitate security function isolation.

Security functions enforcing access and information flow control shall be isolated from both non-security functions and from other security functions.

An information system isolation boundary shall be implemented to minimize the number of non-security functions included within the boundary containing security

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functions.

Security functions shall be implemented as largely independent modules that avoid unnecessary interactions between modules.

Security functions shall be implemented as a layered structure, minimizing interactions between layers of the design and avoiding any dependence by lower layers on the functionality or correctness of higher layers.

**Objective Name: 09.05 Information Back-Up**

|  |  |
| --- | --- |
| **Control** | Ensure the maintenance, integrity, and availability of organizational information. |
| **Objective:** |

**Control Reference: 09.l Back-up**

**Control Specification:**

|  |  |
| --- | --- |
|  | Back-up copies of information and software shall be taken and tested regularly. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Cryptography; Documentation and Records; Physical and Facility Security; |
|  | Policies and Procedures; Third Parties and Contractors |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Joint Commission Accreditation |
| **Regulatory Factors:** | Subject to PCI Compliance |
|  | Subject to Texas Health and Safety Code |

**Level 1 Implementation:**

Back-up copies of information and software shall be made, at appropriate intervals, and when equipment is moved (relocated), and tested regularly in accordance with an agreed-upon back-up policy. A formal definition of the level of back-up required for each system shall be defined and documented including the scope of data to be imaged, frequency of imaging, and duration of retention. This shall be based on the contractual, legal, regulatory and business requirements.

Complete restoration procedures shall be defined and documented for each system.

The back-ups shall be stored in a physically secure remote location, at a sufficient distance to make them reasonably immune from damage to data at the primary site. Physical and environmental controls shall be in place for the back-up copies. The organization ensures that backups, including remote and cloud-based

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|  |  |
| --- | --- |
|  | backups, are properly protected via physical security or encryption when they are |
|  | stored, as well as when they are moved across the network. |
|  | Regular testing of back-up media and restoration procedures shall be performed. |
|  | Inventory records for the back-up copies, including content and current location, |
|  | shall be maintained. |
|  | When the back-up service is delivered by the third party, the service level |
|  | agreement shall include the detailed protections to control confidentiality, integrity, |
|  | and availability of the back-up information. |
|  | Workforce members roles and responsibilities in the data backup process are |
|  | identified and communicated to the workforce; in particular, bring your own device |
|  | (BYOD) users are required to perform backups of organizational and/or client data |
|  | on their device(s). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA A1.2 |
|  |
|  | AICPA A1.3 |
|  | AICPA C1.4 |
|  | AICPA CC5.1 |
|  | AICPA CC5.5 |
|  | AICPA CC5.7 |
|  | CIS CSC v6 10.1 |
|  | CIS CSC v6 10.2 |
|  | CIS CSC v6 10.3 |
|  | CMSRs 2013v2 CP-2 (HIGH) |
|  | CMSRs 2013v2 CP-6 (HIGH) |
|  | CMSRs 2013v2 CP-9 (HIGH) |
|  | CMSRs 2013v2 CP-9(1) (HIGH) |
|  | CMSRs 2013v2 CP-9(2) (HIGH) |
|  | CMSRs 2013v2 MP-4 (HIGH) |
|  | CMSRs 2013v2 MP-5 (HIGH) |
|  | CRR V2016 AM:G6.Q5 |
|  | CRR V2016 SCM:G3.Q4 |
|  | CSA CCM v3.0.1 BCR-11 |
|  | CSA CCM v3.0.1 MOS-17 |
|  | FedRAMP CP-2 |
|  | FedRAMP CP-9 |
|  | FedRAMP CP-9(1) |
|  | FedRAMP MP-4 |
|  | GDPR Article 32(1)(b) |
|  | GDPR Article 32(1)(c) |
|  | HIPAA § 164.308(a)(7)(ii)(A) |
|  |  |

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HIPAA § 164.308(a)(7)(ii)(B)

HIPAA § 164.310(d)(2)(iv)

HIPAA § 164.312(c)(1)

IRS Pub 1075 v2014 4.2

IRS Pub 1075 v2014 4.4

IRS Pub 1075 v2014 4.5

IRS Pub 1075 v2014 9.3.10.3

IRS Pub 1075 v2014 9.3.10.5

IRS Pub 1075 v2014 9.3.6.2

IRS Pub 1075 v2014 9.3.6.5

IRS Pub 1075 v2014 9.3.6.7

IRS Pub 1075 v2014 9.4.14

ISO 27799-2008 7.7.5

ISO/IEC 27002:2005 10.2

ISO/IEC 27002:2005 10.5.1

ISO/IEC 27002:2005 15.1.3

ISO/IEC 27002:2005 18.1.3

ISO/IEC 27002:2013 12.3.1

ISO/IEC 27002:2013 15.2

JCAHO IM.01.01.03, EP 4

MARS-E v2 CP-2

MARS-E v2 CP-6

MARS-E v2 CP-9

MARS-E v2 CP-9(1)

MARS-E v2 MP-4

MARS-E v2 R4 MP-5

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.IP-4

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-6

NIST SP 800-53 R4 CP-9

NIST SP 800-53 R4 CP-9(1)

NIST SP 800-53 R4 CP-9(2)

NIST SP 800-53 R4 MP-4

NIST SP 800-53 R4 MP-5

NRS 603A.215.1

PCI DSS v3.2 9.5.1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework RC-1

**Level 2 Implementation Requirements**

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|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to the EU GDPR |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Automated tools shall track all back-ups. |
|  | The integrity and security of the backup copies shall be maintained to ensure |
|  | future availability in accordance with the agreed backup policy. To mitigate the risk |
|  | of attacks that seek to encrypt or damage data on addressable data shares, |
|  | including backup destinations, the organization provides key systems with at least |
|  | one (1) backup destination that is not continuously addressable through operating |
|  | system calls. Any potential accessibility problems with the back-up copies shall be |
|  | identified and mitigated in the event of an area-wide disaster. |
|  | Covered information shall be backed-up in an encrypted format to guarantee |
|  | confidentiality. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 10.1 |
| **Mapping:** | CIS CSC v6 10.4 |
|  |
|  | CMSRs 2013v2 CP-6(3) (HIGH) |
|  | CMSRs 2013v2 CP-9 (HIGH) |
|  | CMSRs 2013v2 SC-28 (HIGH) |
|  | CSA CCM v3.0.1 EKM-03 |
|  | FedRAMP PS-28(1) |
|  | GDPR Article 32(1)(a) |
|  | GDPR Article 32(1)(b) |
|  | HIPAA § 164.308(a)(7)(ii)(A) |
|  | HIPAA § 164.308(a)(7)(ii)(B) |
|  | HIPAA § 164.310(d)(2)(iv) |
|  | HIPAA § 164.312(c)(1) |
|  | IRS Pub 1075 v2014 4.2 |
|  | IRS Pub 1075 v2014 4.5 |
|  |  |

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IRS Pub 1075 v2014 9.3.16.15

IRS Pub 1075 v2014 9.3.6.7

IRS Pub 1075 v2014 9.4.11

IRS Pub 1075 v2014 9.4.14

ISO 27799-2008 7.7.5

ISO/IEC 27002:2005 10.5.1

ISO/IEC 27002:2013 12.3.1

MARS-E v2 R4 CP-6(3)

MARS-E v2 R4 CP-9

MARS-E v2 R4 SC-28

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.IP-4

NIST SP 800-53 R4 CP-6(3)

NIST SP 800-53 R4 CP-9

NIST SP 800-53 R4 SC-28

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization shall perform full backups weekly to separate media. Incremental |
|  |  | or differential backups shall be performed daily to separate media. Three (3) |
|  |  | generations of backups (full plus all related incremental or differential backups) |
|  |  | shall be stored off site. Off-site and on-site backups shall be logged with name, |
|  |  | date, time, and action. |
|  |  | The organization shall ensure a current, retrievable copy of covered information is |
|  |  | available before movement of servers. |
|  |  |  |

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|  |  |
| --- | --- |
|  | The organization shall test backup information following each backup to verify |
|  | media reliability and information integrity, and at least annually. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CP-9 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CP-9(1) (HIGH) |
|  |
|  | CMSRs 2013v2 CP-9(3) (HIGH) |
|  | CMSRs 2013v2 CP-9(5) (HIGH) |
|  | FedRAMP CP-9(1) |
|  | HIPAA § 164.308(a)(7)(ii)(A) |
|  | HIPAA § 164.310(d)(2)(iv) |
|  | IRS Pub 1075 v2014 4.2 |
|  | IRS Pub 1075 v2014 4.4 |
|  | IRS Pub 1075 v2014 4.5 |
|  | IRS Pub 1075 v2014 9.3.10.3 |
|  | IRS Pub 1075 v2014 9.3.6.7 |
|  | IRS Pub 1075 v2014 9.4.11 |
|  | IRS Pub 1075 v2014 9.4.14 |
|  | ISO/IEC 27002:2005 10.5.1 |
|  | ISO/IEC 27002:2013 12.3.1 |
|  | MARS-E v2 CP-9 |
|  | MARS-E v2 CP-9(1) |
|  | NIST Cybersecurity Framework PR.IP-4 |
|  | NIST SP 800-53 R4 CP-9 |
|  | NIST SP 800-53 R4 CP-9(1) |
|  | NIST SP 800-53 R4 CP-9(3) |
|  | NIST SP 800-53 R4 CP-9(5) |
|  |  |

**Level CIS Implementation Requirements Level CIS Implementation:**

There should be multiple backups over time so that, in the event of malware infection, restoration can be from a version that is believed to predate the original infection.

Ensure that each system is automatically backed up on at least a weekly basis, and more often for systems storing sensitive information.

**Level CMS Implementation Requirements Level CMS Implementation:**

Backups shall include:

1. copies of user-level and system-level information (including system state information);
2. copies of the operating system and other critical information system

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software; and

1. the information system inventory (including hardware, software, and firmware components).

The organization transfers information system backup information to the alternate storage site at defined time periods (defined in the applicable security plan) and transfer rates (defined in the applicable security plan) consistent with the recovery time and recovery point objectives.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The service provider determines what elements of the cloud environment require the Information System Backup control determines how Information System Backup is going to be verified and appropriate periodicity of the check.

The service provider maintains at least three backup copies of user-level information, system-level information, and information system documentation (at least one of which is available online) or provides an equivalent alternative.

The organization stores backup copies of organization-defined critical information system software and other security-related information in a separate facility or in a fire-rated container that is not collocated with the operational system.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Back-up tapes must be labeled as containing FTI, must be logged, must be transported securely using two (2) barriers and a transmittal, and must be inventoried on a semi-annual basis.

The organization protects the confidentiality of backup information at storage locations pursuant to IRC 6013.

Backups (virtual machine snapshot) must be properly secured and must be stored in a logical location where the backup is only accessible to those with a need-to-know.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization ensures a current, retrievable copy of Personally Identifiable Information (PII) is available before the movement of servers.

For cloud environments, the system owner determines (what elements of the cloud environment require backups and (2) how backups will be verified and the appropriate periodicity of the check.

**Level Title 23 NYCRR Part500 Implementation Requirements**

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**Level Title 23 NYCRR Part**

**500 Implementation:** The covered entity shall maintain backups of systems designed to reconstruct material financial transactions to support normal operations and obligations of the

covered entity for five (5) years.

**Objective Name: 09.06 Network Security Management**

**Control**

**Objective:** Ensure the protection of information in networks and protection of the supporting network infrastructure.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 09.m Network Controls** | |
|  |  |  |
|  | **Control Specification:** | Networks shall be managed and controlled in order to protect the |
|  |  |
|  |  | organization from threats and to maintain security for the systems and applications |
|  |  | using the network, including information in transit. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authentication; Communications and Transmissions; Cryptography; Data Loss |
|  |  | Prevention; Monitoring; Network Security |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to Texas Health and Safety Code |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | Network managers shall implement controls to ensure the security of information |
|  |  |
|  |  | in networks, and the protection of connected services from unauthorized access. |
|  |  | Controls shall be implemented to ensure the availability of network services and |
|  |  | information services using the network. Responsibilities and procedures shall be |
|  |  | established for the management of equipment on the network, including |
|  |  | equipment in user areas. |
|  |  | When configuring wireless access points and devices, the organization shall |
|  |  | change the following: |
|  |  | 1. vendor default encryption keys. |
|  |  | 2. encryption keys anytime anyone with knowledge of the keys leaves the |
|  |  | company or changes positions |
|  |  | 3. default SNMP community strings on wireless devices |
|  |  | 4. default passwords/passphrases on access points |
|  |  | 5. other security-related wireless vendor defaults, if applicable. |

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|  |  |
| --- | --- |
|  | A current network diagram (for example, one that shows how covered information |
|  | flows over the network) shall exist, documenting all connections to systems |
|  | storing, processing or transmitting covered information, including any wireless |
|  | networks. Network architecture diagrams shall clearly identify high-risk |
|  | environments and data flows that may have legal compliance impacts. Review |
|  | and update the network diagram as based on the changes in the environment and |
|  | no less than every six (6) months. |
|  | Misconfigured wireless networks and vulnerabilities in legacy encryption and |
|  | authentication protocols can be continued targets of malicious individuals who |
|  | exploit these vulnerabilities to gain privileged access to covered information |
|  | environments. The organization monitors for all authorized and unauthorized |
|  | wireless access to the information system and prohibits installation of wireless |
|  | access points (WAP) unless explicitly authorized, in writing, by the CIO or his/her |
|  | designated representative. If wireless access is explicitly approved, wireless |
|  | access points and devices shall have appropriate (e.g., FIPS-approved; minimum |
|  | of AES WPA2) encryption enabled for authentication and transmission. |
|  | WAPs shall be placed in secure areas. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA A1.1 |
|  |
|  | AICPA A1.2 |
|  | AICPA CC5.1 |
|  | AICPA CC5.6 |
|  | AICPA CC5.7 |
|  | CIS CSC v6 15.1 |
|  | CIS CSC v6 15.2 |
|  | CIS CSC v6 15.4 |
|  | CIS CSC v6 15.5 |
|  | CMSRs 2013v2 AC-18 (HIGH) |
|  | CMSRs 2013v2 AC-18(1) (HIGH) |
|  | CMSRs 2013v2 SI-4 (HIGH) |
|  | CRR V2016 AM:G2.Q5 |
|  | CRR V2016 CM:G2.Q2 |
|  | CRR V2016 CM:G2.Q4 |
|  | CRR V2016 CM:G2.Q8 |
|  | CSA CCM v3.0.1 IVS-06 |
|  | CSA CCM v3.0.1 IVS-12 |
|  | CSA CCM v3.0.1 IVS-13 |
|  | FedRAMP AC-18 |
|  | FedRAMP AC-18(1) |
|  | FedRAMP SI-4 |
|  | FFIEC IS v2016 A.6.10 |
|  |  |

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FFIEC IS v2016 A.6.10

FFIEC IS v2016 A.6.7(a)

FFIEC IS v2016 A.6.7(b)

FFIEC IS v2016 A.6.7(c)

GDPR Article 32(1)(a)

GDPR Article 32(1)(b)

HIPAA § 164.312(a)(2)(i)

HIPAA § 164.312(c)(1)

HIPAA § 164.312(c)(2)

HIPAA § 164.312(d)

HIPAA § 164.312(e)(1)

HIPAA § 164.312(e)(2)(i)

HIPAA § 164.312(e)(2)(ii)

IRS Pub 1075 v2014 9.3.1.13

IRS Pub 1075 v2014 9.4.18

ISO/IEC 27002:2005 10.6.1

ISO/IEC 27002:2013 13.1.1

MARS-E v2 AC-18

MARS-E v2 AC-18(1)

MARS-E v2 SI-4

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework ID.AM-3

NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.IP-1

NIST SP 800-53 R4 AC-18

NIST SP 800-53 R4 AC-18(1)

NIST SP 800-53 R4 SI-4

PCI DSS v3.2 1.1

PCI DSS v3.2 1.1.2

PCI DSS v3.2 1.1.3

PCI DSS v3.2 1.1.4

PCI DSS v3.2 11.1

PCI DSS v3.2 2.1.1

PCI DSS v3.2 4.1.1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework PR.DS-1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |

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|  |  |  |
| --- | --- | --- |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to HITRUST De-ID Framework Requirements |
|  | **Regulatory Factors:** | Subject to the EU GDPR |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall uniquely identify and authenticate network devices that |
|  |  | require authentication mechanisms, before establishing a connection, that, at a |
|  |  | minimum, use shared information (i.e., MAC or IP address) and access control |
|  |  | lists to control remote network access. |
|  |  | To identify and authenticate devices on local and/or wide area networks, including |
|  |  | wireless networks, the information system shall use either: |
|  |  | 1. shared known information solutions (Media Access Control (MAC) or |
|  |  | Transmission Control Protocol/Internet Protocol (TCP/IP) addresses); or |
|  |  | 2. an organizational authentication solution (IEEE 802.1x and Extensible |
|  |  | Authentication Protocol (EAP) or a Radius server with EAP-Transport |
|  |  | Layer Security (TLS) authentication). |
|  |  | The required strength of the device authentication mechanism shall be determined |
|  |  | by the security categorization of the information system. |
|  |  | A formal process shall be established for approving and testing all network |
|  |  | connections and changes to firewall, router, and switch configurations. Any |
|  |  | deviations from the standard configuration or updates to the standard |
|  |  | configuration should be documented and approved in a change control system. All |
|  |  | new configuration rules beyond a baseline-hardened configuration that allow traffic |
|  |  | to flow through network security devices, such as firewalls and network-based |
|  |  | IPS, should also be documented and recorded, with a specific business reason for |
|  |  | each change, a specific individual's name responsible for that business need, and |
|  |  | an expected duration of the need. The organization shall build a firewall |
|  |  | configuration that restricts connections between un-trusted networks and any |
|  |  | system components in the covered information environment (Note: An "un-trusted |
|  |  | network" is any network that is external to the networks belonging to the entity |
|  |  | under review, and/or which is out of the entity's ability to control or manage.) Any |
|  |  | changes to the firewall configuration shall be updated in the network diagram. |
|  |  | The firewall configuration shall: |
|  |  |  |

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|  |  |
| --- | --- |
|  | 1. restrict inbound and outbound traffic to that which is necessary for the |
|  | covered information system's environment; |
|  | 2. secure and synchronize router configuration files; |
|  | 3. require firewalls between any wireless networks and the covered |
|  | information system's environment; and |
|  | 4. configure these firewalls to deny or control any traffic from a wireless |
|  | environment into the covered data environment. |
|  | The organization shall ensure information systems protect the confidentiality and |
|  | integrity of transmitted information, including during preparation for transmission |
|  | and during reception. The organization requires information systems to use FIPS- |
|  | validated cryptographic mechanisms during transmission to prevent unauthorized |
|  | disclosure of information and detect changes to information unless otherwise |
|  | protected by organization-defined, alternative physical measures. |
|  | Organizations shall use secured and encrypted communication channels when |
|  | migrating physical servers, applications, or data to virtualized servers. |
|  | Usage restrictions and implementation guidance shall be defined and documented |
|  | for VoIP, including the authorization and monitoring of the service. |
|  | Perform quarterly scans for unauthorized wireless access points and take |
|  | appropriate action if any access points are discovered. |
|  | The organization shall: |
|  | 1. authorize connections from the information system to other information |
|  | systems outside of the organization through the use of interconnection |
|  | security agreements or other formal agreement; |
|  | 2. document for each connection, the interface characteristics, security |
|  | requirements, and the nature of the information communicated; |
|  | 3. employ a deny-all, permit-by-exception policy for allowing connections |
|  | from the information system to other information systems outside of the |
|  | organization; and |
|  | 4. apply a default-deny rule that drops all traffic via host-based firewalls or |
|  | port filtering tools on its endpoints (workstations, servers, etc.), except |
|  | those services and ports that are explicitly allowed. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 11.1 |
| **Mapping:** | CIS CSC v6 11.2 |
|  |
|  | CIS CSC v6 12.1 |
|  | CIS CSC v6 13.8 |
|  | CIS CSC v6 15.6 |
|  | CIS CSC v6 7.6 |
|  | CIS CSC v6 8.6 |
|  | CIS CSC v6 9.2 |
|  | CMSRs 2013v2 CA-3 (HIGH) |
|  | CMSRs 2013v2 CM-3 (HIGH) |
|  | CMSRs 2013v2 IA-3 (HIGH) |
|  | CMSRs 2013v2 SC-19 (HIGH) |
|  |  |

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CMSRs 2013v2 SC-20 (HIGH)

CMSRs 2013v2 SC-7 (HIGH)

CMSRs 2013v2 SC-7(5) (HIGH)

CMSRs 2013v2 SC-8 (HIGH)

CMSRs 2013v2 SC-8(1) (HIGH)

CMSRs 2013v2 SC-8(2) (HIGH)

CMSRs 2013v2 SI-4 (HIGH)

CRR V2016 CM:G2.Q2

CRR V2016 CM:G2.Q4

CRR V2016 CM:G2.Q8

CSA CCM v3.0.1 IVS-06

CSA CCM v3.0.1 IVS-10

De-ID Framework v1 Transmission Encryption: Policies

FedRAMP CA-3

FedRAMP CM-3

FedRAMP IA-3

FedRAMP SC-19

FedRAMP SC-7

FedRAMP SC-8

FedRAMP SI-4(14)

FFIEC IS v2016 A.6.10

FFIEC IS v2016 A.6.10

FFIEC IS v2016 A.6.18(d)

FFIEC IS v2016 A.6.7(b)

FFIEC IS v2016 A.6.7(c)

GDPR Article 32(1)(a)

HIPAA § 164.312(a)(2)(i)

HIPAA § 164.312(c)(1)

HIPAA § 164.312(c)(2)

HIPAA § 164.312(d)

HIPAA § 164.312(e)(1)

HIPAA § 164.312(e)(2)(i)

HIPAA § 164.312(e)(2)(ii)

IRS Pub 1075 v2014 9.3.16.13

IRS Pub 1075 v2014 9.3.16.5

IRS Pub 1075 v2014 9.3.16.6

IRS Pub 1075 v2014 9.3.4.3

IRS Pub 1075 v2014 9.3.5.3

IRS Pub 1075 v2014 9.3.7.3

IRS Pub 1075 v2014 9.4.15

ISO/IEC 27002:2005 11.4.3

ISO/IEC 27002:2005 11.4.5

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ISO/IEC 27002:2005 11.4.6

ISO/IEC 27002:2013 13.1.1

ISO/IEC 27002:2013 13.1.2

ISO/IEC 27002:2013 13.1.3

MARS-E v2 CA-3

MARS-E v2 CM-3

MARS-E v2 IA-3

MARS-E v2 SC-19

MARS-E v2 SC-20

MARS-E v2 SC-7

MARS-E v2 SC-7(5)

MARS-E v2 SC-8

MARS-E v2 SC-8(1)

MARS-E v2 SC-9

MARS-E v2 SC-9(1)

MARS-E v2 SI-4(14)

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-5

NIST Cybersecurity Framework PR.DS-2

NIST SP 800-53 R4 AC-17

NIST SP 800-53 R4 CA-3

NIST SP 800-53 R4 CM-3

NIST SP 800-53 R4 IA-3

NIST SP 800-53 R4 SC-19

NIST SP 800-53 R4 SC-20

NIST SP 800-53 R4 SC-7

NIST SP 800-53 R4 SC-7(5)

NIST SP 800-53 R4 SC-8

NIST SP 800-53 R4 SC-8(1)

NIST SP 800-53 R4 SC-8(2)

NIST SP 800-53 R4 SI-4

PCI DSS v3.2 1.1.1

PCI DSS v3.2 1.1.3

PCI DSS v3.2 1.2

PCI DSS v3.2 1.2.2

PCI DSS v3.2 1.2.3

Phase 1 CORE 153: Eligibility and Benefits Connectivity Rule v1.1.0 Subsection 5.1

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |

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|  |  |  |
| --- | --- | --- |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | An analysis shall be conducted to determine the impact the loss of network |
|  |  | service availability will have upon critical business functions. |
|  |  | Technical controls shall be implemented to safeguard the confidentiality and |
|  |  | integrity of covered information passing over the organization's network and |
|  |  | to/from public networks. Technical tools and solutions shall be implemented and |
|  |  | used to identify the vulnerabilities and mitigate the threats, including intrusion |
|  |  | detection system (IDS) and/or intrusion prevention systems (IPS), and |
|  |  | vulnerability scanning. The organization shall employ tools and techniques, such |
|  |  | as an IDS and IPS, to monitor events on the information system, detect and |
|  |  | respond to attacks, and provide identification of unauthorized use of the system. |
|  |  | These tools shall be implemented at the perimeter of the organization's |
|  |  | environment and at key points within the environment, including IDS and IPS |
|  |  | deployed on the wireless side of the firewall (WIDS) to identify rogue wireless |
|  |  | devices, monitor all traffic to and from the wireless segment, and detect attack |
|  |  | attempts and successful compromises. These tools shall be updated on a regular |
|  |  | basis, including the engines, the baselines, and signatures. |
|  |  | Management processes shall be implemented to ensure coordination of, and |
|  |  | consistency in, the elements of the network infrastructure. |
|  |  | The organization shall establish firewall and router configuration standards for the |
|  |  | current network with all connections to covered information, including any wireless |
|  |  | networks. A description of groups, roles, and responsibilities for the logical |
|  |  | management of network components shall be documented. |
|  |  | Documentation and business justification shall be provided for the use of all |

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services, protocols, and ports allowed, including documentation of security features implemented for those protocols considered to be insecure. The firewall and router rule sets shall be reviewed at least every six (6) months.

Wireless access points shall be shut down when not in use (e.g., nights, weekends). MAC address authentication and static IP addresses shall be utilized. Access points shall be placed in secure areas. File sharing shall be disabled on all wireless clients.

The router configuration files shall be secured and synchronized. Access to all proxies shall be denied, except for those hosts, ports, and services that are explicitly required. The organization shall utilize firewalls from at least two (2) different vendors at the various levels within the network to reduce the possibility of compromising the entire network.

The organization shall prohibit direct public access between the Internet and any system component in the covered data environment.

This shall be achieved by performing the following:

1. establishing DMZ to limit inbound and outbound traffic to only protocols that are necessary for the covered data environment;
2. limiting inbound Internet traffic to IP addresses within the DMZ;
3. not allowing any direct routes inbound or outbound for traffic between the Internet and the covered data environment;
4. not allowing internal addresses to pass from the Internet into the DMZ;
5. restricting outbound traffic from the covered data environment to the Internet such that outbound traffic can only access IP addresses within the DMZ;
6. implementing stateful inspection, also known as dynamic packet filtering (that is, only "established" connections are allowed into the network);
7. placing all database(s), servers and other system components storing or processing covered information in an internal network zone, segregated from the DMZ; and
8. methods including, but not limited to, Network Address Translation (NAT), placing system components behind a proxy server, and/or removing or filtering route advertisements.

To eliminate single points of failure and to enhance redundancy, there shall be at least two (2) authoritative domain name system (DNS) servers, one configured as primary and the other as secondary. These servers shall be located on different subnets and geographically separated. Authoritative DNS servers shall be segregated into internal and external roles. The DNS server with the internal role shall provide name/address resolution information pertaining to both internal and external information technology resources while the DNS server with the external role shall only provide name/address resolution information pertaining to external information technology resources.

|  |  |  |
| --- | --- | --- |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | CIS CSC v6 | 1.5 |
| **Mapping:** | CIS CSC v6 | 12.3 |
|  |
|  | CIS CSC v6 | 12.4 |

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CIS CSC v6 15.3

CMSRs 2012v1.5 SC-7(18) (HIGH)

CMSRs 2013v2 AC-18 (HIGH)

CMSRs 2013v2 AC-18(1) (HIGH)

CMSRs 2013v2 AC-18(4) (HIGH)

CMSRs 2013v2 AC-18(5) (HIGH)

CMSRs 2013v2 AR-5 (HIGH)

CMSRs 2013v2 CM-7 (HIGH)

CMSRs 2013v2 CP-2 (HIGH)

CMSRs 2013v2 SC-21 (HIGH)

CMSRs 2013v2 SC-22 (HIGH)

CMSRs 2013v2 SC-7 (HIGH)

CMSRs 2013v2 SC-7(5) (HIGH)

CMSRs 2013v2 SI-4 (HIGH)

COBIT 4.1 DS5.10

COBIT 5 DSS05.02

CRR V2016 CM:G2.Q8

FedRAMP AC-18

FedRAMP AC-18(1)

FedRAMP CM-7

FedRAMP CP-2

FedRAMP SC-22

FedRAMP SC-7

FedRAMP SI-4

FedRAMP SI-4(14)

FedRAMP SI-4(14)

FedRAMP SI-4(14)

FFIEC IS v2016 A.8.1(a)

FFIEC IS v2016 A.8.1(h)

FFIEC IS v2016 A.8.4

HIPAA § 164.312(c)(1)

HIPAA § 164.312(c)(2)

HIPAA § 164.312(d)

HIPAA § 164.312(e)(1)

HIPAA § 164.312(e)(2)(i)

IRS Pub 1075 v2014 9.3.1.13

IRS Pub 1075 v2014 9.3.5.7

IRS Pub 1075 v2014 9.3.6.2

IRS Pub 1075 v2014 9.4.1.8

IRS Pub 1075 v2014 9.4.10

IRS Pub 1075 v2014 9.4.11

IRS Pub 1075 v2014 9.4.14

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IRS Pub 1075 v2014 9.4.17

IRS Pub 1075 v2014 9.4.18

IRS Pub 1075 v2014 9.4.2 (E.10)

ISO 27799-2008 7.7.6.2

ISO/IEC 27002:2005 10.6.1

ISO/IEC 27002:2005 11.4.5

ISO/IEC 27002:2005 11.4.7

ISO/IEC 27002:2005 12.5.4

ISO/IEC 27002:2013 13.1.1

ISO/IEC 27002:2013 13.1.3

MARS-E v2 AC-18

MARS-E v2 AC-18(1)

MARS-E v2 AR-5

MARS-E v2 CM-7

MARS-E v2 CP-2

MARS-E v2 PM-1

MARS-E v2 SC-21

MARS-E v2 SC-22

MARS-E v2 SC-7

MARS-E v2 SC-7(5)

MARS-E v2 SI-4

MARS-E v2 SI-4(14)

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework DE.AE-4

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-5

NIST Cybersecurity Framework PR.DS-2

NIST SP 800-53 R4 AC-18

NIST SP 800-53 R4 AC-18(1)

NIST SP 800-53 R4 AC-18(4)

NIST SP 800-53 R4 AC-18(5)

NIST SP 800-53 R4 CM-7

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 SC-21

NIST SP 800-53 R4 SC-22

NIST SP 800-53 R4 SC-7

NIST SP 800-53 R4 SC-7(18)

NIST SP 800-53 R4 SC-7(5)

NIST SP 800-53 R4 SI-4

NRS 603A.215.1

PCI DSS v3.2 1.1.4

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PCI DSS v3.2 1.1.6

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PCI DSS v3.2 1.3.2

PCI DSS v3.2 1.3.3

PCI DSS v3.2 1.3.4

PCI DSS v3.2 1.3.5

PCI DSS v3.2 1.3.6

PCI DSS v3.2 1.3.7

PCI DSS v3.2 11.4

PCI DSS v3.2 9.1.3

**Level CIS Implementation Requirements Level CIS Implementation:**

Where a specific business need for wireless access has been identified, the organization configures wireless access on client machines to allow access only to authorized wireless networks. For devices that do not have an essential wireless business purpose, the organization disables wireless access in the hardware configuration (basic input/output system or extensible firmware interface).

The organization shall maintain and enforce network based URL filters that limit a system's ability to connect to Websites not approved by the organization. The organization specifically blocks access to known file transfer and email exfiltration Websites. The organization shall subscribe to URL categorization services to ensure that they are up to date with the most recent Website category definitions available. Uncategorized sites shall be blocked by default. This filtering shall be enforced for each of the organization's systems, whether they are physically at an organization's facilities or not.

In addition to URL filtering, the organization denies communications with (or limit data flow to) known malicious IP addresses (blacklists), or limit access only to trusted sites (whitelists).

The organization enables DNS query logging to detect hostname lookup for known malicious command and control domains.

**Level CMS Implementation Requirements Level CMS Implementation:**

The information system shall fail securely in the event of an operational failure of a boundary protection device.

The organization identifies and explicitly authorizes users allowed to independently configure wireless networking capabilities.

The organization selects radio antennas and calibrates transmission power levels to reduce the probability that usable signals can be received outside of

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organization-controlled boundaries.

The organization shall prohibit the use of Voice over Internet Protocol (VoIP) technologies, unless explicitly authorized, in writing, by the CMS CIO or his/her designated representative. If VoIP is authorized, the organization shall ensure VoIP equipment used to transmit or discuss sensitive information is protected with FIPS 140-2 encryption standards.

**Level Federal Implementation Requirements**

**Level Federal Implementation:**

The information system shall provide:

1. additional data origin integrity artifacts (e.g., digital signatures, cryptographic keys) along with authoritative data (e.g., DNS resource records) in response queries to obtain origin authentication and integrity verification assurances; and
2. the means to indicate the security status of child zones and (if the child supports secure resolution services) to enable verification of a chain of trust among parent and child domains, when operating as part of a distributed, hierarchical namespace.

The information system requests and performs data origin authentication and data integrity verification on the name/address resolution responses the system receives from authoritative sources. A resolving or caching domain name system (DNS) server and authoritative DNS servers are examples of systems that perform this function.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The information system provides:

1. additional data origin integrity artifacts (e.g., digital signatures, cryptographic keys) along with authoritative data (e.g., DNS resource records) in response queries to obtain origin authentication and integrity verification assurances;
2. the means to indicate the security status of child zones and (if the child supports secure resolution services) to enable verification of a chain of trust among parent and child domains, when operating as part of a distributed, hierarchical namespace.

The information system requests and performs data origin authentication and data integrity verification on the name/address resolution responses the system receives from authoritative sources. A resolving or caching domain name system (DNS) server and authoritative DNS servers are examples of systems that perform this function.

The information system fails securely in the event of an operational failure of a boundary protection device.

The organization uses cryptographic mechanisms during transmission to prevent unauthorized disclosure of information and detect changes to information unless

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otherwise protected by a hardened or alarmed carrier Protective Distribution System (PDS).

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Intrusion-detection software shall be installed and maintained to monitor networks for any unauthorized attempt to access tax data in a data warehousing environment.

The agency shall identify and analyze how FTI in a data warehouse is used and how FTI is queried or targeted by end users. Parts of the system containing FTI shall be mapped to follow the flow of the query from a client through the authentication server to the release of the query from the database server.

To use a VoIP network that provides FTI to a customer, VoIP phones must be logically protected.

FTI must be encrypted while in transit within a SAN environment. SAN management traffic must also be encrypted for SAN components.

To use a virtual environment that receives, processes, stores, or transmits FTI, FTI data transmitted via hypervisor management communication systems on untrusted networks must be encrypted using FIPS-approved methods provided by either the virtualization solution or third-party solution, such as a VPN that encapsulates the management traffic.

To use a VoIP network that provides FTI to a customer, the VoIP traffic must be encrypted using a NIST-approved method operating in a NIST-approved mode when FTI is in transit across the network (either Internet or state agency's network).

To access FTI from a Web browser, the agency must encrypt FTI transmissions within the agencies internal network using a cryptographic module that is FIPS 140-2 validated.

**Level HIX Implementation Requirements Level HIX Implementation:**

The information system fails securely in the event of an operational failure of a boundary protection device.

**Level PCI Implementation Requirements**

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**Level PCI Implementation:**

The organization shall ensure network diagrams identify all cardholder data connections and data flows.

Using intrusion-detection and/or intrusion-prevention techniques to detect and/or prevent intrusions into the network, monitor all traffic at the perimeter of the cardholder data environment, as well as at critical points in the cardholder data environment, and alert personnel to suspected compromises.

|  |  |
| --- | --- |
| **Control Reference: 09.n Security of Network Services** | |
|  |  |
| **Control Specification:** | Security features, service levels, and management requirements of all network |
|  |
|  | services shall be identified and included in any network services agreement, |
|  | whether these services are provided in-house or outsourced. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Documentation and Records; Monitoring; Requirements (Legal and Contractual); |
|  | Services and Acquisitions; Network Security |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | The ability of the network service provider to manage agreed services in a secure |
|  |
|  | way shall be determined and regularly monitored, and the right to audit shall be |
|  | agreed by management. The security arrangements necessary for particular |
|  | services, including security features, service levels, and management |
|  | requirements, shall be identified and documented. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 16 CFR Part §681.1 (e)(4) |
|  |
|  | AICPA CC4.1 |
|  | AICPA CC5.6 |
|  | AICPA CC5.7 |
|  | CMSRs 2013v2 CA-3 (HIGH) |
|  | CMSRs 2013v2 SA-9 (HIGH) |
|  | CSA CCM v3.0.1 STA-03 |
|  | FedRAMP CA-3 |
|  |  |

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FedRAMP SA-9

HIPAA § 164.308(b)(1)

HIPAA § 164.308(b)(3)

HIPAA § 164.314(a)(1)

HIPAA § 164.314(a)(2)(ii)

IRS Pub 1075 v2014 9.3.15.7

IRS Pub 1075 v2014 9.3.4.3

ISO 27799-2008 7.7.6.2

ISO/IEC 27002:2005 10.6.2

ISO/IEC 27002:2013 13.1.2

MARS-E v2 CA-3

MARS-E v2 SA-9

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework DE.CM-6

NIST Cybersecurity Framework ID.AM-4

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 CA-3

NIST SP 800-53 R4 SA-9

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall: |
|  | 1. authorize connections from the information system to other information |
|  | systems outside of the organization through the use of interconnection |
|  | security agreements or other formal agreement; |
|  | 2. centrally document for each connection, the interface characteristics, |
|  | security requirements, and the nature of the information communicated; |
|  | and |
|  | 3. review and update the interconnection security agreements on an ongoing |
|  | basis verifying enforcement of security requirements. |
|  | The organization employs, and documents in a formal agreement or other |
|  | document (e.g., an applicable security plan), either i) allow-all, deny-by-exception, |
|  | or, ii) deny-all, permit-by-exception (preferred), policy for allowing specific |
|  | information systems (defined in the applicable agreement, security plan, etc.) to |
|  | connect to external information systems. |
|  | The organization requires external/outsourced service providers to identify the |
|  | specific functions, ports, and protocols used in the provision of such |
|  | external/outsourced services. |
|  | The contract with the external/outsourced service provider shall include the |
|  | specification that the service provider is responsible for the protection of covered |
|  | information shared in the contract. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 16 CFR Part §681.1 (e)(4) |
| **Mapping:** | 21 CFR Part 11.30 |
|  |
|  | CMSRs 2013v2 CA-3 (HIGH) |
|  | CMSRs 2013v2 CA-3(5) (HIGH) |
|  | CMSRs 2013v2 SA-9 (HIGH) |
|  | CMSRs 2013v2 SA-9(2) (HIGH) |
|  | FedRAMP CA-3 |
|  | FedRAMP CA-3(5) |
|  | FedRAMP SA-9 |
|  | FFIEC IS v2016 A.6.7(a) |
|  | FFIEC IS v2016 A.6.7(e) |
|  | HIPAA § 164.308(b)(1) |
|  | HIPAA § 164.308(b)(3) |
|  | HIPAA § 164.314(a)(1) |
|  | HIPAA § 164.314(a)(2)(ii) |
|  | IRS Pub 1075 v2014 9.3.15.7 |
|  | IRS Pub 1075 v2014 9.3.4.3 |
|  | MARS-E v2 CA-3 |
|  | MARS-E v2 SA-9 |
|  |  |

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NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework DE.CM-6

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework ID.AM-3

NIST Cybersecurity Framework ID.AM-4

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework PR.PT-4

NIST SP 800-53 R4 CA-3

NIST SP 800-53 R4 CA-3(5)

NIST SP 800-53 R4 SA-9

NIST SP 800-53 R4 SA-9(2)

**Level Cloud Service Implementation Requirements**

**Providers**

**Level Cloud Service**

**Providers Implementation:** Business-critical or customer (tenant) impacting (physical and virtual) applicationand system-system interface (API) designs and configurations, and infrastructure

network and systems components, shall be designed, developed, and deployed in accordance with mutually agreed-upon service and capacity-level expectations, as well as IT governance and service management policies and procedures.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall record each system interconnection in the security plan for the system that is connected to the remote location.

The Interconnection Security Agreement or data sharing agreement is updated following significant changes to the system, organization, or the nature of the electronic sharing of information that could impact the validity of the agreement.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization requires external/outsourced service providers of all external systems where Federal information is processed or stored to identify the specific functions, ports, and protocols used in the provision of the external/outsourced services.

The organization prohibits the direct connection of any system processing, transmitting or storing Controlled Unclassified Information (CUI) to an external network without the use of a boundary protection device that meets Trusted Internet Connection (TIC) requirements.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization records each system interconnection in the security plan for the

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system that is connected to the remote location, and updates each interconnection security agreement following significant changes to the system, organization, or the nature of the electronic sharing of information that could impact the validity of the agreement.

The organization establishes system-to-system connections with CMS through the Fed2NonFed ISA process.

**Objective Name: 09.07 Media Handling**

**Control**

**Objective:** Prevent unauthorized disclosure, modification, removal or destruction of information assets, or interruptions to business activities

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 09.o Management of Removable Media** | |
|  |  |  |
|  | **Control Specification:** | Formal procedures shall be documented and implemented for the management of |
|  |  |
|  |  | removable media. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Authorization; Cryptography; Documentation and Records; Media and Assets; |
|  |  | Physical and Facility Security; Policies and Procedures |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to Texas Health and Safety Code |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall formally establish and enforce controls (e.g., policies and |
|  |  |
|  |  | procedures) for the management of removable media and laptops including: |
|  |  | 1. restrictions on the type(s) of media, and usages thereof, to maintain |
|  |  | security; |
|  |  | 2. registration of certain type(s) of media including laptops. |
|  |  | The organization limits the use of removable media to those with a valid business |
|  |  | need. |
|  |  | Media containing covered information shall be physically stored and its data |
|  |  | encrypted in accordance with the organization's data protection and privacy policy |
|  |  | on the use of cryptographic controls (see 06.d) until the media are destroyed or |
|  |  | sanitized, (see 09.p) and commensurate with the confidentiality and integrity |

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requirements for its data classification level.

|  |  |  |  |
| --- | --- | --- | --- |
| **Level 1** | 1 | TAC § 390.2(a)(1) | |
| **Control Standard** | 1 | TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | 201 | | CMR 17.03(2)(c) |
|  |
|  | 201 | | CMR 17.04(5) |

AICPA C1.3

AICPA C1.8

AICPA CC5.5

AICPA CC5.7

CMSRs 2013v2 MP-1 (HIGH)

CMSRs 2013v2 MP-4 (HIGH)

CMSRs 2013v2 MP-7 (HIGH)

CRR V2016 CM:G2.Q7

CSA CCM v3.0.1 EKM-03

CSA CCM v3.0.1 HRS-05

FedRAMP MP-1

FedRAMP MP-4

FedRAMP MP-7

FFIEC IS v2016 A.6.21(d)

GDPR Article 32(1)(a)

Guidance to render PHI unusable, unreadable, or indecipherable (1)(i)

HIPAA § 164.310(c)

HIPAA § 164.310(d)(1)

HIPAA § 164.310(d)(2)(iii)

HIPAA § 164.310(d)(2)(iv)

HIPAA § 164.312(c)(1)

IRS Pub 1075 v2014 9.3.10.1

IRS Pub 1075 v2014 9.3.10.4

ISO 27799-2008 7.7.7.1

ISO/IEC 27002:2013 10.7.1

ISO/IEC 27002:2013 8.3.1

MARS-E v2 MP-1

MARS-E v2 MP-4

NIST Cybersecurity Framework PR.PT-2

NIST SP 800-53 R4 MP-1

NIST SP 800-53 R4 MP-4

NIST SP 800-53 R4 MP-7

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework PR.DS-1

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**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to MARS-E Requirements |
| **Regulatory Factors:** | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Redundancy of storage shall be established in light of the risks to the removable |
|  | media, including where storage retention requirements exceed the rated life of the |
|  | media. |
|  | Organizations shall identify digital and non-digital media requiring restricted use |
|  | and the specific safeguards necessary to restrict use. |
|  | The organization: |
|  | 1. protects and controls digital and non-digital media containing sensitive |
|  | information during transport outside of controlled areas using |
|  | cryptography and tamper-evident packaging and |
|  | i. if hand carried, using a securable container (e.g., locked |
|  | briefcase) via authorized personnel, or |
|  | ii. if shipped, trackable with receipt by commercial carrier; |
|  | 2. maintains accountability for information system media during transport |
|  | outside of controlled areas; |
|  | 3. documents activities associated with the transport of information system |
|  | media; and |
|  | 4. restricts the activities associated with transport of such media to |
|  | authorized personnel. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | CMSRs 2013v2 MP-5 (HIGH) |
|  |
|  | CMSRs 2013v2 MP-5(3) (HIGH) |
|  | CMSRs 2013v2 MP-5(4) (HIGH) |
|  | CMSRs 2013v2 MP-7 (HIGH) |
|  | CRR V2016 CM:G2.Q7 |
|  |  |

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FedRAMP MP-5

FedRAMP MP-5(4)

FedRAMP MP-7

FFIEC IS v2016 A.6.21(d)

HIPAA § 164.310(d)(1)

HIPAA § 164.310(d)(2)(iii)

IRS Pub 1075 v2014 9.3.10.5

ISO/IEC 27002:2005 10.7.1

ISO/IEC 27002:2013 8.3.1

MARS-E v2 MP-5

MARS-E v2 MP-5(4)

NIST Cybersecurity Framework PR.PT-2

NIST SP 800-53 R4 MP-5

NIST SP 800-53 R4 MP-5(3)

NIST SP 800-53 R4 MP-5(4)

NIST SP 800-53 R4 MP-7

NRS 603A.215.1

PCI DSS v3.2 9.6.3

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | Organizations shall restrict the use of writable, removable media and personally- |
|  |  | owned, removable media in organizational systems. |
|  |  |  |

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**Level 3**

**Control Standard**

**Mapping:**

AICPA C1.8

CIS CSC v6 13.5

CIS CSC v6 8.3

CMSRs 2013v2 MP-6(3) (HIGH)

CMSRs 2013v2 MP-7(1) (HIGH)

CRR V2016 CM:G2.Q7

FedRAMP MP-7(1)

HIPAA § 164.310(d)(1)

HIPAA § 164.310(d)(2)(iv)

ISO/IEC 27002:2005 10.7.1

ISO/IEC 27002:2013 8.3.1

NIST Cybersecurity Framework PR.PT-2

NIST SP 800-53 R4 MP-7(1)

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization limits the use of removable media to those with a valid business need.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization physically controls and securely stores digital and non-digital media defined within NIST SP 800-88, Guidelines for Media Sanitization, within controlled areas using physical security safeguards prescribed for the highest system security level of the information ever recorded on it.

The organization evaluates employing an approved method of cryptography (see SC-13) to protect PII at rest, consistent with NIST SP 800-66 guidance and, if PII is recorded on magnetic media with other data, it should be protected as if it were entirely personally identifiable information.

The organization employs an identified custodian through the transport of CMS information system media.

Portable, removable storage devices shall be sanitized prior to connecting such devices to the information system under the following circumstances:

1. initial use after purchase;
2. when obtained from an unknown source;
3. when the organization loses a positive chain of custody; and
4. when the device was connected to a lower assurance system based on its security categorization (e.g., a publicly accessible kiosk).

**Control Reference: 09.p Disposal of Media**

**Control Specification:**

Media shall be disposed of securely and safely when no longer required, using

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|  |  |
| --- | --- |
|  | formal procedures that are documented. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Media and Assets; Policies and Procedures; Services and Acquisitions; Third |
|  | Parties and Contractors |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Joint Commission Accreditation |
| **Regulatory Factors:** | Subject to PCI Compliance |
|  | Subject to Texas Health and Safety Code |
|  |  |
| **Level 1 Implementation:** | The organization shall destroy media when it is no longer needed for business or |
|  |
|  | legal reasons. |
|  | Formal procedures for the secure disposal of media shall minimize the risk of |
|  | information leakage to unauthorized persons. The procedures for the secure |
|  | disposal of media containing information shall be commensurate with the |
|  | sensitivity of that information. |
|  | The following items shall be addressed: |
|  | 1. the use of generally-accepted secure disposal or erasure methods (see |
|  | 08.l) for use by another application within the organization, for media that |
|  | contains (or might contain) covered information; and |
|  | 2. the identification of information that qualifies as covered, or a policy shall |
|  | be developed that all information shall be considered covered in the |
|  | absence of unequivocal evidence to the contrary. |
|  | It may be easier to arrange for all media items to be collected and disposed of |
|  | securely, rather than attempting to separate out the items containing covered |
|  | information. If collection and disposal services offered by other organizations are |
|  | used, care shall be taken in selecting a suitable contractor with adequate controls |
|  | and experience. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA C1.8 |
|  |
|  | AICPA CC5.6 |
|  | CMSRs 2013v2 DM-2 (HIGH) |
|  | CMSRs 2013v2 MP-6 (HIGH) |
|  | CRR V2016 AM:G6.Q6 |
|  | CRR V2016 AM:G6.Q7 |
|  |  |

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CRR V2016 CM:G2.Q5

CSA CCM v3.0.1 DSI-07

FedRAMP MP-6

FFIEC IS v2016 A.6.18(e)

Guidance to render PHI unusable, unreadable, or indecipherable (2)(i)

Guidance to render PHI unusable, unreadable, or indecipherable (2)(ii)

HIPAA § 164.310(d)(1)

HIPAA § 164.310(d)(2)(i)

HIPAA § 164.310(d)(2)(ii)

IRS Pub 1075 v2014 9.3.10.6

IRS Pub 1075 v2014 9.4.18

IRS Pub 1075 v2014 9.4.2 (E.10)

IRS Pub 1075 v2014 9.4.8

IRS Pub 1075 v2014 9.4.9

ISO 27799-2008 7.7.7.2

ISO/IEC 27002:2005 10.7.2

ISO/IEC 27002:2013 8.3.2

JCAHO IM.02.01.03, EP 3

MARS-E v2 DM-2

MARS-E v2 MP-6

NIST Cybersecurity Framework PR.DS-3

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.IP-6

NIST SP 800-53 R4 DM-2

NIST SP 800-53 R4 MP-6

NRS 603A.215.1

PCI DSS v3.2 9.8

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  |  |  |

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|  |  |
| --- | --- |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Procedures shall be implemented to prevent the aggregation effect, which may |
|  | cause a large quantity of non-covered information to become covered when |
|  | accumulating media for disposal. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | CMSRs 2013v2 MP-6(1) (HIGH) |
|  |
|  | CMSRs 2013v2 MP-6(2) (HIGH) |
|  | HIPAA § 164.310(d)(2)(i) |
|  | IRS Pub 1075 v2014 9.4.7 |
|  | ISO/IEC 27002:2005 10.7.2 |
|  | ISO/IEC 27002:2013 8.3.2 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST Cybersecurity Framework PR.IP-6 |
|  | NIST SP 800-53 R4 MP-6(1) |
|  | NIST SP 800-53 R4 MP-6(2) |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization reviews, approves, tracks, documents (logs), and verifies media sanitization and disposal actions.

The organization tests sanitization equipment and procedures within every three hundred and sixty-five (365) days to verify that the intended sanitization is being achieved.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The organization tests sanitization equipment and procedures within every three hundred and sixty-five (365) days to verify that the intended sanitization is being

achieved.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** The agency shall cleanse FTI at the staging area of a data warehouse and document how it cleanses the FTI when it is extracted, transformed, and loaded

(i.e., in the ETL process). In addition, the agency shall describe the process of

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object reuse once FTI is replaced from data sets.

All FTI must be removed from media in the data warehouse by a random overwrite software program.

If the media will be reused by the agency for the same purpose of storing FTI and will not be leaving organization control, then clearing is a sufficient method of sanitization. If the media will be reused and repurposed for a non-FTI function or will be leaving organization control (i.e., media being exchanged for warranty, cost rebate, or other purposes - and where the specific media will not be returned to the agency), then purging should be selected as the sanitization method. If the media will not be reused at all, then destroying is the method for media sanitization.

The following media sanitization requirements are applicable for media used in "pre-production" or "test" environments:

1. The technique for clearing, purging, and destroying media depends on the type of media being sanitized.
2. A representative sampling of media must be tested after sanitization has been completed; and
3. Media sanitization should be witnessed or verified by an agency employee.

Disposal of all Multifunction Device (MFD) hardware (e.g., hard disks) and WLAN components follows the organization's standard media sanitization and disposal procedure requirements.

FTI furnished to the user and any paper material generated therefrom, such as extra copies, photo impressions, computer printouts, carbon paper, notes, stenographic notes, and work papers must be destroyed by burning, mulching, pulping, shredding, or disintegrating.

FTI must never be disclosed to an agency's agents or contractors during disposal, unless authorized by the Internal Revenue Code. Agencies must review and approve media to be sanitized to ensure compliance with records-retention policies. Tracking/documenting actions include, for example, listing personnel who reviewed and approved sanitization and disposal actions, types of media sanitized, specific files stored on the media, sanitization methods used, date and time of the sanitization actions, personnel who performed the sanitization, verification actions taken, personnel who performed the verification, and disposal action taken. Agencies verify that the sanitization of the media was effective prior to disposal.

**Level HIX Implementation Requirements Level HIX Implementation:**

The organization reviews, approves, tracks, documents (logs), and verifies media sanitization and disposal actions.

The organization tests sanitization equipment and procedures within every three hundred and sixty-five (365) days to verify that the intended sanitization is being

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achieved.

|  |  |
| --- | --- |
| **Control Reference: 09.q Information Handling Procedures** | |
|  |  |
| **Control Specification:** | Procedures for the handling and storage of information shall be established to |
|  |
|  | protect this information from unauthorized disclosure or misuse. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Cryptography; Data Loss Prevention; Documentation and Records; Media and |
|  | Assets; Monitoring; User Access |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to IRS Pub 1075 Compliance |
| **Regulatory Factors:** | Subject to State of Massachusetts Data Protection Act |
|  |  |
| **Level 1 Implementation:** | Procedures for handling, processing, communication and storage of information |
|  |
|  | (including information media awaiting disposal) shall be established, monitored, |
|  | and enforced to protect data from unauthorized disclosure or misuse including: |
|  | 1. physical and technical access restrictions commensurate with the data |
|  | classification level; |
|  | 2. handling and labeling of all media according to its indicated classification |
|  | (sensitivity) level; |
|  | 3. periodic review (at a minimum annually) of distribution and authorized |
|  | recipient lists; and |
|  | 4. monitoring the status and location of media containing unencrypted |
|  | covered information. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(ii) |
| **Mapping:** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  |
|  | 201 CMR 17.03(2)(c) |
|  | 201 CMR 17.03(2)(g) |
|  | AICPA C1.8 |
|  | AICPA CC2.4 |
|  | AICPA CC5.5 |
|  | AICPA CC5.6 |
|  | AICPA CC5.7 |
|  | CMSRs 2013v2 MP-2 (HIGH) |
|  | CMSRs 2013v2 MP-3 (HIGH) |
|  |  |

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CMSRs 2013v2 SI-12 (HIGH)

CRR V2016 AM:G6.Q3

FedRAMP MP-2

FedRAMP MP-3

FedRAMP SI-12

GDPR Article 32(1)(a)

HIPAA § 164.308(a)(3)(ii)(A)

HIPAA § 164.310(b)

HIPAA § 164.310(c)

HIPAA § 164.310(d)(1)

HIPAA § 164.312(c)(1)

IRS Pub 1075 v2014 4.5

IRS Pub 1075 v2014 9.3.10.2

IRS Pub 1075 v2014 9.3.10.3

IRS Pub 1075 v2014 9.3.17.9

ISO 27799-2008 7.7.7.3

ISO/IEC 27002:2005 10.7.3

ISO/IEC 27002:2013 8.2.3

MARS-E v2 MP-2

MARS-E v2 MP-3

MARS-E v2 SI-12

NIST Cybersecurity Framework PR.DS-3

NIST Cybersecurity Framework PR.PT-2

NIST SP 800-53 R4 AC-3

NIST SP 800-53 R4 MP-2

NIST SP 800-53 R4 MP-3

NIST SP 800-53 R4 SI-12

NRS 603A.215.1

PCI DSS v3.2 9.5

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  |  |  |

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|  |  |  |
| --- | --- | --- |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to PCI Compliance |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization shall maintain inventories of media to maintain strict control over |
|  |  | storage and accessibility. Management shall approve any and all media that is |
|  |  | moved from a secured area, especially when media is distributed to individuals. |
|  |  | Maintenance of formal records of data transfers, including logging and an audit |
|  |  | trail, shall be maintained. |
|  |  |  |
|  | **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Control Standard** | AICPA C1.8 |
|  | **Mapping:** | CMSRs 2013v2 MP-2 (HIGH) |
|  |  |
|  |  | CMSRs 2013v2 MP-5 (HIGH) |
|  |  | FedRAMP MP-2 |
|  |  | FedRAMP MP-5 |
|  |  | HIPAA § 164.308(a)(3)(ii) |
|  |  | HIPAA § 164.310(d)(1) |
|  |  | IRS Pub 1075 v2014 4.5 |
|  |  | IRS Pub 1075 v2014 9.3.10.2 |
|  |  | IRS Pub 1075 v2014 9.3.10.5 |
|  |  | ISO/IEC 27002:2005 10.7.3 |
|  |  | ISO/IEC 27002:2013 8.2.3 |
|  |  | MARS-E v2 MP-2 |
|  |  | MARS-E v2 MP-5 |
|  |  | NIST Cybersecurity Framework PR.DS-3 |
|  |  | NIST Cybersecurity Framework PR.PT-2 |
|  |  | NIST SP 800-53 R4 MP-2 |
|  |  | NIST SP 800-53 R4 MP-5 |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 3.2 |
|  |  | PCI DSS v3.2 3.2.1 |
|  |  | PCI DSS v3.2 3.2.2 |
|  |  | PCI DSS v3.2 3.2.3 |
|  |  | PCI DSS v3.2 9.6 |
|  |  | PCI DSS v3.2 9.6.3 |
|  |  | PCI DSS v3.2 9.7 |
|  |  |  |
|  | **Level 3 Implementation Requirements** | |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |

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|  |  |
| --- | --- |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Inventory and disposition records for information system media shall be |
|  | maintained to ensure control and accountability of the organization's information. |
|  | The media related records shall contain sufficient information to reconstruct the |
|  | data in the event of a breach. |
|  | The media records shall, at a minimum, contain: |
|  | 1. the name of media recipient; |
|  | 2. the signature of media recipient; |
|  | 3. the date/time media received; |
|  | 4. the media control number and contents; |
|  | 5. the movement or routing information; and |
|  | 6. if disposed of, the date, time, and method of destruction. |
|  | The information system implements cryptographic mechanisms to protect the |
|  | confidentiality and integrity of sensitive (non-public) information stored on digital |
|  | media during transport outside of controlled areas. |
|  |  |
| **Level 3** | AICPA C1.8 |
| **Control Standard** | CMSRs 2013v2 MP-5(4) (HIGH) |
| **Mapping:** | CMSRs 2013v2 MP-CMS-1 (HIGH) |
|  |
|  | FedRAMP MP-5 |
|  | FedRAMP MP-5(4) |
|  | HIPAA § 164.310(d)(1) |
|  | HIPAA § 164.312(c)(1) |
|  | MARS-E v2 MP-5(4) |
|  | MARS-E v2 MP-CMS-1 |
|  | NIST Cybersecurity Framework PR.DS-3 |
|  | NIST SP 800-53 R4 MP-5(4) |
|  |  |

**Level HIX Implementation Requirements**

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**Level HIX Implementation:**

The organization employs automated mechanisms to (1) restrict access to sensitive information (e.g., PII) residing on digital and non-digital media to authorized individuals; and (2) restricts access to media storage areas, to audit access attempts and access granted.

Inventory and disposition records for information system media shall be maintained to ensure control and accountability of CMS information. The media-related records shall contain sufficient information to reconstruct the data in the event of a breach.

**Level PCI Implementation Requirements Level PCI Implementation:**

The system shall not store sensitive authentication data after authorization (even if encrypted). If sensitive authentication data is received, the system shall render all data unrecoverable upon completion of the authorization process.

The system shall not store the full contents of any track (from the magnetic stripe located on the back of a card, equivalent data contained on a chip, or elsewhere) after authorization. This data is alternatively called full track, track, track 1, track 2, and magnetic stripe data.

The system shall not store the card verification code or value (three-digit or four-digit number printed on the front or back of a payment card used to verify card-not-present transactions) after authorization.

The system shall not store the personal identification number (PIN) or the encrypted PIN block after authorization.

The system shall mask the PAN when displaced (the first six (6) and last four (4) digits are the maximum number of digits to be displayed), such that only personnel with a legitimate business need can see more than the first six (6)/last four (4) digits of the PAN. (Note this requirement does not supersede stricter requirements in place for displays of cardholder data (for example, legal or payment card brand requirements for point-of-sale (POS) receipts).

**Control Reference: 09.r Security of System Documentation**

**Control Specification:**

System documentation shall be protected against unauthorized access.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Authorization; Documentation and Records; User Access |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |

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|  |  |  |  |
| --- | --- | --- | --- |
| **Level 1** | Subject to FISMA Compliance | | |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance | | |
|  | Subject to MARS-E Requirements | | |
|  | Subject to the CMS Minimum Security Requirements (High) | | |
|  |  |  |  |
| **Level 1 Implementation:** | The organization: | | |
|  |
|  | 1. Obtains administrator documentation for the information system, system | | |
|  | component, or information system service that describes: | | |
|  | i. |  | Secure configuration, installation, and operation of the system, |
|  |  |  | component, or service; |
|  | ii. | Effective use and maintenance of security functions/mechanisms; | |
|  |  |  | and |
|  | iii. Known vulnerabilities regarding configuration and use of | | |
|  |  |  | administrative (i.e., privileged) functions; |
|  | 2. Obtains user documentation for the information system, system | | |
|  | component, or information system service that describes: | | |
|  | i. |  | User-accessible security functions/mechanisms and how to |
|  |  |  | effectively use those security functions/mechanisms; |
|  | ii. | Methods for user interaction, which enables individuals to use the | |
|  |  |  | system, component, or service in a more secure manner; and |
|  | iii. User responsibilities in maintaining the security of the system, | | |
|  |  |  | component, or service. |
|  | Organizations shall document attempts to obtain information system | | |
|  | documentation when such documentation is either unavailable or non-existent. | | |
|  | The organization shall protect system documentation in accordance with the | | |
|  | organization's risk management strategy, e.g., by access controls (see 1.0), and | | |
|  | distribute documentation to organization-defined personnel with the need for such | | |
|  | documentation. The access list for system documentation shall be kept to a | | |
|  | minimum and authorized by the application owner. | | |
|  |  | | |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) | | |
| **Control Standard** | AICPA CC5.1 | |  |
| **Mapping:** | CMSRs 2013v2 SA-5 (HIGH) | | |
|  |
|  | CSA CCM v3.0.1 BCR-04 | | |
|  | FedRAMP SA-5 | | |
|  | IRS Pub 1075 v2014 9.3.15.5 | | |
|  | ISO/IEC 27002:2005 10.7.4 | | |
|  | MARS-E v2 SA-5 | | |
|  | NIST Cybersecurity Framework ID.RA-1 | | |
|  | NIST Cybersecurity Framework PR.AC-4 | | |
|  | NIST SP 800-53 R4 SA-5 | | |
|  |  |  |  |

**Objective Name: 09.08 Exchange of Information**

|  |  |
| --- | --- |
| **Control** | Ensure the exchange of information within an organization and with any external |
| **Objective:** |

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entity is secured and protected, and carried out in compliance with relevant legislation and exchange agreements.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 09.s Information Exchange Policies and Procedures** | |
|  |  |  |
|  | **Control Specification:** | Formal exchange policies, procedures, and controls shall be in place to protect the |
|  |  |
|  |  | exchange of information through the use of all types of communication mediums. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Communications and Transmissions; Cryptography; |
|  |  | Personnel; Policies and Procedures; Third Parties and Contractors; Viruses and |
|  |  | Malware |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall ensure that communications protection requirements, |
|  |  |
|  |  | including the security of exchanges of information, is the subject of policy |
|  |  | development (see also 04.a and 04.b) and compliance audits (see 06.g) |
|  |  | consistent with relevant legislation. |
|  |  | When using electronic communication applications or systems for information |
|  |  | exchange, the following items shall be addressed: |
|  |  | 1. policies or guidelines shall be defined outlining acceptable use of |
|  |  | electronic communication applications or systems; |
|  |  | 2. the use of anti-malware for the detection of and protection against |
|  |  | malicious code that may be transmitted through the use of electronic |
|  |  | communications; |
|  |  | 3. procedures shall be implemented for the use of wireless communications |
|  |  | including an appropriate level of encryption (see 09.m); |
|  |  | 4. employee, contractor and any other user's responsibilities shall be defined |
|  |  | to not compromise the organization (e.g., through defamation, |
|  |  | harassment, impersonation, forwarding of chain letters, unauthorized |
|  |  | purchasing, etc.); |
|  |  | 5. the required use of cryptographic techniques to protect the confidentiality, |
|  |  | integrity and authenticity of covered information; |
|  |  | 6. the retention and disposal guidelines shall be defined for all business |
|  |  | correspondence, including messages, in accordance with relevant |
|  |  | national and local legislation and regulations; and |
|  |  | 7. controls and restrictions shall be implemented associated with the |

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forwarding of communications (e.g., automatic forwarding of electronic mail to external mail addresses).

The organization shall establish terms and conditions, consistent with any trust relationship established with other organizations owning, operating, and/or maintaining external information systems, allowing authorized individuals to:

1. access the information system from external information systems; and
2. process, store, or transmit organization-controlled information using external information systems.

Personnel shall be appropriately educated and periodically reminded of the following:

1. not to leave covered or critical information on printing systems (e.g., copiers, printers, and facsimile machines) as these may be accessed by unauthorized personnel;
2. that they should take necessary precautions, including not to reveal covered information, to avoid being overheard or intercepted when making a phone call by:
   1. people in their immediate vicinity - particularly when using mobile phones;
   2. wiretapping, and other forms of eavesdropping through physical access to the phone handset or the phone line, or using scanning receivers; or
   3. people at the recipient's end;
3. not leaving messages containing sensitive information on answering machines since these may be replayed by unauthorized persons, stored on communal systems or stored incorrectly as a result of misdialing;
4. the problems of using facsimile machines, namely:
   1. unauthorized access to built-in message stores to retrieve messages;
   2. deliberate or accidental programming of machines to send messages to specific numbers; and
   3. sending documents and messages to the wrong number either by misdialing or using the wrong stored number;
5. not to register demographic data, such as the email address or other personal information, in any software to avoid collection for unauthorized use; and
6. that modern facsimile machines and photocopiers have page caches and store pages in case of a paper or transmission fault, which will be printed once the fault is cleared.

Cryptography shall be used to protect the confidentiality and integrity of remote access sessions to the internal network and to external systems.

Formal procedures shall be defined to encrypt data in transit including use of strong cryptography protocols to safeguard covered information during transmission over less trusted / open public networks.

Valid encryption processes include:

1. Transport Layer Security (TLS) 1.1 or later
2. IPSec VPNs:

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* 1. Gateway-To-Gateway Architecture
  2. Host-To-Gateway Architecture
  3. Host-To-Host Architecture

1. TLS VPNs:
   1. Portal VPN
   2. Tunnel VPN

See NIST SP800-52 Guidelines for the Selection and Use of Transport Layer Security (TLS) Implementation and NIST SP800-77 Guide to IPsec VPNs for more information on implementing encryption technologies for information transmissions.

Examples of less trusted / open, public networks include:

|  |  |  |
| --- | --- | --- |
|  | 1. | the Internet; |
|  | 2. | wireless technologies; |
|  | 3. Global System for Mobile communications (GSM); and | |
|  | 4. General Packet Radio Service (GPRS). | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | AICPA C1.3 | |
|  |
|  | AICPA C1.7 | |
|  | AICPA C1.8 | |
|  | AICPA CC2.4 | |
|  | AICPA CC5.7 | |
|  | AICPA CC5.8 | |
|  | CIS CSC v6 14.2 | |
|  | CMSRs 2013v2 AC-17 (HIGH) | |
|  | CMSRs 2013v2 AC-17(2) (HIGH) | |
|  | CMSRs 2013v2 AC-20 (HIGH) | |
|  | CMSRs 2013v2 SC-1 (HIGH) | |
|  | CRR V2016 CM:G2.Q4 | |
|  | CSA CCM v3.0.1 AIS-04 | |
|  | FedRAMP AC-17 | |
|  | FedRAMP AC-17(2) | |
|  | FedRAMP AC-19(5) | |
|  | FedRAMP AC-20 | |
|  | FedRAMP SC-1 | |
|  | FFIEC IS v2016 A.6.23 | |
|  | FFIEC IS v2016 A.6.24 | |
|  | HIPAA § 164.308(a)(4)(ii)(B) | |
|  | HIPAA § 164.310(b) | |
|  | HIPAA § 164.312(e)(1) | |
|  | HIPAA § 164.312(e)(2)(i) | |
|  | HIPAA § 164.312(e)(2)(ii) | |

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IRS Pub 1075 v2014 4.7.3

IRS Pub 1075 v2014 9.3.1.12

IRS Pub 1075 v2014 9.3.1.15

IRS Pub 1075 v2014 9.3.16.1

ISO 27799-2008 7.7.8.1

ISO/IEC 27002:2005 10.8.1

ISO/IEC 27002:2013 13.2.1

JCAHO IM.02.01.03, EP 1

MARS-E v2 AC-17

MARS-E v2 AC-17(2)

MARS-E v2 AC-20

MARS-E v2 SC-1

NIST Cybersecurity Framework PR.AT-1

NIST SP 800-53 R4 AC-1

NIST SP 800-53 R4 AC-17

NIST SP 800-53 R4 AC-17(2)

NIST SP 800-53 R4 AC-20

NIST SP 800-53 R4 AC-4

NIST SP 800-53 R4 PL-4

NIST SP 800-53 R4 SC-1

NIST SP 800-53 R4 SC-8

PCI DSS v3.2 2.3

PCI DSS v3.2 4.1

PCI DSS v3.2 4.1.1

PMI DSP Framework PR.DS-1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  | Subject to MARS-E Requirements |

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|  |  |
| --- | --- |
|  | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall permit authorized individuals to use an external information |
|  | system to access the information system or to process, store or transmit |
|  | organization-controlled information only when the organization: |
|  | 1. verifies the implementation of required security controls on the external |
|  | system, as specified in the organization's information security policy and |
|  | security plan; or |
|  | 2. retains approved information connection or processing agreements with |
|  | the organizational entity hosting the external information system (see |
|  | 09.t). |
|  | The organization shall limit the use of organization-controlled portable storage |
|  | media by authorized individuals on external information systems. |
|  | Terms and conditions shall be established for authorized individuals to: |
|  | 1. access the information system from an external information system; and |
|  | 2. process, store and/or transmit organization-controlled information using |
|  | an external information system. |
|  | The information system: |
|  | 1. prohibits remote activation of collaborative computing devices; and |
|  | 2. provides an explicit indication of use to users physically present at the |
|  | devices. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 201 CMR 17.04(3) |
| **Mapping:** | AICPA C1.7 |
|  |
|  | AICPA C1.8 |
|  | CMSRs 2013v2 AC-20 (HIGH) |
|  | CMSRs 2013v2 AC-20(1) (HIGH) |
|  | CMSRs 2013v2 AC-20(2) (HIGH) |
|  | CMSRs 2013v2 SC-15 (HIGH) |
|  | CMSRs 2013v2 SC-15(1) (HIGH) |
|  | COBIT 4.1 DS5.11 |
|  | COBIT 5 DSS05.02 |
|  | CSA CCM v3.0.1 EKM-03 |
|  | FedRAMP AC-20 |
|  | FedRAMP AC-20(1) |
|  | FedRAMP AC-20(2) |
|  | FedRAMP SC-15 |
|  | Guidance to render PHI unusable, unreadable, or indecipherable (1)(ii) |
|  |  |

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HIPAA § 164.308(a)(4)(ii)(B)

HIPAA § 164.310(b)

IRS Pub 1075 v2014 9.3.1.15

IRS Pub 1075 v2014 9.3.16.10

IRS Pub 1075 v2014 9.4.9

JCAHO IM.02.01.03, EP 5

MARS-E v2 AC-20

MARS-E v2 AC-20(1)

MARS-E v2 AC-20(2)

MARS-E v2 AR-4

MARS-E v2 SC-15

MARS-E v2 SC-15(1)

NIST Cybersecurity Framework PR.AC-3

NIST SP 800-53 R4 AC-20

NIST SP 800-53 R4 AC-20(1)

NIST SP 800-53 R4 AC-20(2)

NIST SP 800-53 R4 AC-3

NIST SP 800-53 R4 PS-6

NIST SP 800-53 R4 SC-15

NIST SP 800-53 R4 SC-15(1)

NRS 603A.215.1

NRS 603A.215.2.a

Phase 1 CORE 153: Eligibility and Benefits Connectivity Rule v1.1.0 Subsection 5.1

**Level Cloud Service**

**Providers Implementation Requirements**

**Level Cloud Service**

**Providers Implementation:** Cloud service providers shall use secure (e.g., non-clear text and authenticated)standardized network protocols for the import and export of data and to manage

the service, and shall make available a document to consumers (tenants) detailing the relevant interoperability and portability standards that are involved.

The provider shall use an industry-recognized virtualization platform and standard virtualization formats (e.g., Open Virtualization Format, OVF) to help ensure interoperability, and shall have documented custom changes made to any hypervisor in use and all solution-specific virtualization hooks available for customer review.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall prohibit the use of external information systems, including, but not limited to, Internet kiosks, personal desktop computers, laptops, tablet personal computers, personal digital assistant (PDA) devices, cellular telephones, facsimile machines, and equipment available in hotels or airports, to store, access, transmit, or process CMS sensitive information, unless explicitly authorized, in writing, by the CIO or his/her designated representative. If external information

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systems are authorized, the organization shall establish strict terms and conditions for their use.

The terms and conditions shall address, at a minimum:

1. the types of applications that can be accessed from external information systems;
2. the maximum FIPS 199 security category of information that can be processed, stored, and transmitted;
3. how other users of the external information system will be prevented from accessing federal information;
4. the use of virtual private networking (VPN) and firewall technologies;
5. the use of and protection against the vulnerabilities of wireless technologies;
6. the maintenance of adequate physical security controls;
7. the use of virus and spyware protection software; and
8. how often the security capabilities of installed software are to be updated.

The organization shall prohibit running collaborative computing mechanisms, unless explicitly authorized, in writing, by the CIO or his/her designated representative. If authorized, the authorization shall specifically identify allowed mechanisms, allowed purpose(s), and the information system upon which the mechanisms can be used.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Unless approved by the Office of Safeguards, the agency must prohibit:

1. Access to FTI from external information systems;
2. Use of agency-controlled portable storage devices (e.g., flash drives, external hard drives) containing FTI on external information systems; and
3. Use of non-agency-owned information systems; system components; or devices to process, store, or transmit FTI.

Any non-agency-owned information system usage requires the agency to notify the Office of Safeguards forty-five (45) days prior to implementation.

All FTI data in transit to and from a Multifunctional Device (MFD) should be encrypted when moving across a WAN and within the LAN.

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

The organization maintains records of the basis used to authorize cross-border flows of personal data to a third country or international organization, which include but are not limited to:

1. an adequacy decision by the EU Commission;
2. the controller or processor has provided appropriate safeguards, and on condition that enforceable data subject rights and effective legal remedies for data subjects are available;
3. binding corporate rules approved by the relevant supervisory authority;

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1. A court judgement or administrative decision of a third country if based on an international agreement between the third country and the EU; or
2. If one of the following conditions are met:
   1. the data subject has explicitly consented to the proposed transfer, after having been informed of the possible risks of such transfers for the data subject due to the absence of an adequacy decision and appropriate safeguards;
   2. the transfer is necessary for the performance of a contract between the data subject and the controller or the implementation of pre-contractual measures taken at the data subject's request;
   3. the transfer is necessary for the conclusion or performance of a contract concluded in the interest of the data subject between the controller and another natural or legal person;
   4. the transfer is necessary for important reasons of public interest;
   5. the transfer is necessary for the establishment, exercise or defense of legal claims;
   6. the transfer is necessary to protect the vital interests of the data subject or of other persons, where the data subject is physically or legally incapable of giving consent;
   7. the transfer is made from a register which according to EU or Member State law is intended to provide information to the public and which is open to consultation either by the public in general or by any person who can demonstrate a legitimate interest, but only to the extent that the conditions laid down in EU or Member State law for consultation are fulfilled in the particular case.

Appropriate safeguards include:

1. a legally binding and enforceable instrument between public authorities or bodies;
2. binding corporate rules;
3. standard data protection clauses adopted by the Commission;
4. standard data protection clauses adopted by a supervisory authority and approved by the Commission;
5. an approved code of conduct together with binding and enforceable commitments of the controller or processor in the third country to apply the appropriate safeguards, including as regards data subjects' rights; or
6. an approved certification mechanism together with binding and enforceable commitments of the controller or processor in the third country to apply the appropriate safeguards, including as regards data subjects' rights.

If authorized by the relevant supervisory authority, appropriate safeguards may also include:

1. contractual clauses between the controller or processor and the controller, processor or the recipient of the personal data in the third country or international organization; or
2. provisions to be inserted into administrative arrangements between public authorities or bodies which include enforceable and effective data subject rights.

**Level HIX Implementation Requirements**

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**Level HIX Implementation:**

The organization prohibits the use of external information systems - &#45; including, but not limited to, Internet kiosks, personal desktop computers, laptops, tablet personal computers, personal digital assistant (PDA) devices, cellular telephones, facsimile machines, and equipment available in hotels or airports &#45; by organizational users (staff and contractors within the organization) to store, access, transmit, or process sensitive information (such as FTI or Privacy Act protected information), unless explicitly authorized, in writing, by the CIO or his/her designated representative. If authorized, the organization establishes strict terms and conditions for their use.

For non-organizational users (such as business partners), the Administering Entity organization establishes terms and conditions, consistent with CMS implementation guidance of HHS Regulation 45 C.F.R. § 115.260, and in compliance with legal data sharing agreements signed with CMS, for any trust relationships established with other organizations owning, operating, and/or maintaining external information systems. These terms and conditions allow authorized individuals to:

1. Access the information system from external information systems; and

2. Process, store, or transmit organization-controlled information using external information systems.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 09.t Exchange Agreements** | |
|  |  |  |
|  | **Control Specification:** | Agreements shall be established and implemented for the exchange of information |
|  |  |
|  |  | and software between the organization and external parties. |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Communications and Transmissions; Data Loss Prevention; IT Organization and |
|  |  | Management Roles and Responsibilities; Media and Assets; Requirements (Legal |
|  |  | and Contractual); Third Parties and Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to HITRUST De-ID Framework Requirements |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |  |
|  | **Level 1 Implementation:** | Exchange and data sharing agreements shall specify the minimum set of controls |
|  |  |
|  |  | on responsibility, procedures, technical standards and solutions. |
|  |  | The exchange agreements shall also specify organization policies including: |
|  |  | 1. classification policy for the sensitivity of the business information; |
|  |  | 2. management responsibilities for controlling and notifying transmission, |

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dispatch, and receipt;

1. procedures for notifying sender of transmission, dispatch, and receipt;
2. procedures to ensure traceability and non-repudiation;
3. minimum technical standards for packaging and transmission;
4. courier identification standards;
5. responsibilities and liabilities in the event of information security incidents, such as loss of data;
6. use of an agreed labeling system for covered or critical information, ensuring that the meaning of the labels is immediately understood and that the information is appropriately protected;
7. ownership and responsibilities for data protection, copyright, software license compliance and similar considerations;
8. technical standards for recording and reading information and software;
9. any special controls that may be required to protect covered items, including cryptographic keys; and
10. escrow agreements.

Policies, procedures, and standards shall be established and maintained to protect information and physical media in transit, and shall be referenced in such exchange agreements.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.03(2)(c) |
|  |
|  | AICPA C1.4 |
|  | AICPA CC2.3 |
|  | CMSRs 2013v2 MP-1 (HIGH) |
|  | COBIT 4.1 DS5.11 |
|  | COBIT 5 DSS05.02 |
|  | CSA CCM v3.0.1 STA-05 |
|  | De-ID Framework v1 Data Sharing Agreements: DSAs |
|  | FedRAMP MP-1 |
|  | HIPAA § 164.306(a)(1) |
|  | HIPAA § 164.308(a)(1)(i) |
|  | HIPAA § 164.308(b)(1) |
|  | HIPAA § 164.308(b)(3) |
|  | HIPAA § 164.310(d)(1) |
|  | HIPAA § 164.314(a)(1) |
|  | HIPAA § 164.314(a)(2)(i) |
|  | HIPAA § 164.314(a)(2)(ii) |
|  | IRS Pub 1075 v2014 9.3.10.1 |
|  | ISO 27799-2008 7.7.8.1 |
|  | ISO/IEC 27002:2005 10.8.2 |
|  | ISO/IEC 27002:2013 13.2.2 |
|  | MARS-E v2 MP-1 |
|  | NIST Cybersecurity Framework PR.AT-3 |

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NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.PT-2

NIST SP 800-53 R4 MP-1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Control Reference: 09.u Physical Media in Transit**

|  |  |  |
| --- | --- | --- |
| **Control Specification:** | Media containing information shall be protected against unauthorized access, | |
|  | misuse or corruption during transportation beyond the organization's physical | |
|  | boundaries. | |
|  |  | |
| **Factor Type:** | Organizational | |
|  |  | |
| **Topics:** | Communications and Transmissions; Cryptography; Media and Assets; Policies | |
|  | and Procedures; Services and Acquisitions | |
| **Level 1 Implementation Requirements** | | |
|  |  | |
| **Level 1** | Applicable to all Organizations | |
| **Organizational Factors:** |  |  |
|  |  |  |
| **Level 1** |  |  |
| **System Factors:** |  |  |
|  |  | |
| **Level 1** | Subject to PCI Compliance | |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code | |
|  |  |  |
| **Level 1 Implementation:** | The following procedures shall be established to protect information media being | |
|  |
|  | transported between sites: | |
|  | 1. | reliable transport or couriers that can be tracked shall be used; |
|  | 2. | a list of authorized couriers shall be agreed with management; |
|  | 3. | procedures to check the identification of couriers shall be developed; and |
|  | 4. | packaging shall be sufficient to protect the contents from any physical |
|  |  | damage likely to arise during transit and in accordance with any |
|  |  | manufacturers' specifications (e.g., for software) for example protecting |
|  |  | against any environmental factors that may reduce the media's restoration |
|  |  | effectiveness such as exposure to heat, moisture, or electromagnetic |
|  |  | fields. |
|  | Controls shall be adopted to protect covered information from unauthorized | |
|  | disclosure or modification, including at least one (1) of the following: | |
|  | 1. | use of locked containers; |
|  | 2. | delivery by hand; |
|  | 3. | tamper-evident packaging (which reveals any attempt to gain access); or |
|  | 4. | splitting of the consignment into more than one (1) delivery, and dispatch |
|  |  | by different routes. |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | CMSRs 2013v2 MP-5 (HIGH) | |
|  |
|  | CMSRs 2013v2 MP-5(3) (HIGH) | |
|  |  |  |

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CSA CCM v3.0.1 HRS-05

FedRAMP MP-5

FFIEC IS v2016 A.6.18(f)

HIPAA § 164.310(d)(1)

HIPAA § 164.310(d)(2)(iii)

HIPAA § 164.312(c)(1)

IRS Pub 1075 v2014 9.3.10.5

ISO 27799-2008 7.7.8.2

ISO/IEC 27002:2005 10.8.3

ISO/IEC 27002:2013 8.3.3

MARS-E v2 MP-5

NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.PT-2

NIST SP 800-53 R4 MP-5

NIST SP 800-53 R4 MP-5(3)

NRS 603A.215.1

PCI DSS v3.2 9.6.2

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  | Subject to the EU GDPR |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Media shall be encrypted when being moved off site. Media shall be encrypted |
|  | onsite unless physical security can be guaranteed. |
|  | The information system implements cryptographic mechanisms to protect the |
|  | confidentiality and integrity of sensitive (non-public) information stored on digital |
|  | media during transport outside of control areas. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC5.7 |
| **Mapping:** | CMSRs 2013v2 MP-5 (HIGH) |
|  |
|  | CMSRs 2013v2 MP-5 MP-5 (HIGH) |
|  | CMSRs 2013v2 MP-5 MP-5(3) (HIGH) |
|  | CMSRs 2013v2 MP-5 MP-5(4) (HIGH) |
|  | CMSRs 2013v2 PE-16 (HIGH) |
|  | CMSRs 2013v2 SC-28 (HIGH) |
|  | COBIT 4.1 DS5.11 |
|  | COBIT 5 DSS05.02 |
|  | FedRAMP MP-5 |
|  | FedRAMP MP-5(4) |
|  | FedRAMP PE-16 |
|  | FedRAMP PS-28(1) |
|  | FedRAMP SC-28 |
|  | FFIEC IS v2016 A.6.18(f) |
|  | GDPR Article 32(1)(a) |
|  | HIPAA § 164.310(d)(1) |
|  | IRS Pub 1075 v2014 4.3.1 |
|  | IRS Pub 1075 v2014 4.4 |
|  | IRS Pub 1075 v2014 9.3.10.5 |
|  | IRS Pub 1075 v2014 9.3.11.8 |
|  | IRS Pub 1075 v2014 9.3.16.15 |
|  | ISO/IEC 27002:2005 10.8.3 |
|  | ISO/IEC 27002:2013 8.3.3 |
|  | JCAHO IM.02.01.03, EP 5 |
|  | MARS-E v2 MP-5 |
|  | MARS-E v2 MP-5(4) |
|  | MARS-E v2 PE-16 |
|  | MARS-E v2 SC-28 |
|  | NIST Cybersecurity Framework PR.DS-2 |
|  | NIST Cybersecurity Framework PR.PT-2 |
|  | NIST SP 800-53 R4 MP-5 |
|  | NIST SP 800-53 R4 MP-5(3) |
|  |  |

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NIST SP 800-53 R4 MP-5(4)

NIST SP 800-53 R4 PE-16

NIST SP 800-53 R4 SC-28

NRS 603A.215.2.a

NRS 603A.215.2.b

PCI DSS v3.2 9.5

PCI DSS v3.2 9.6

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall:

1. protect and control digital and non-digital media containing CMS sensitive information during transport outside of controlled areas using cryptography and tamper-evident packaging and
   1. if hand carried, using securable container (e.g., locked briefcase) via authorized personnel, or
   2. if shipped, trackable with receipt by commercial carrier;
2. maintain accountability for information system media during transport outside of controlled areas; and
3. restrict the activities associated with transport of such media to authorized personnel.

The organization shall employ an identified custodian throughout the transport of information system media outside of controlled areas. Custodial responsibilities can be transferred from one individual to another as long as an unambiguous custodian is identified at all times.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

All transportation or shipments of FTI (including electronic media or microfilm) must be documented on a transmittal form and monitored to ensure that each shipment is properly and timely received and acknowledged. All FTI transported through the mail or courier/messenger service must be double-sealed; that is one envelope within another envelope. The inner envelope should be marked confidential with some indication that only the designated official or delegate is authorized to open it.

**Control Reference: 09.v Electronic Messaging**

|  |  |
| --- | --- |
| **Control Specification:** | Information involved in electronic messaging shall be appropriately protected. |
|  |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authentication; Authorization; Communications and Transmissions |
|  |  |

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|  |  |
| --- | --- |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 1 Implementation:** | Legal considerations, including requirements for electronic signatures, shall be |
|  |
|  | addressed. Approval shall be obtained prior to using external public services, |
|  | including instant messaging or file sharing. Stronger levels of authentication |
|  | controlling access from publicly accessible networks shall be implemented. |
|  | Stronger controls, such as electronic signatures, shall be implemented to protect |
|  | certain electronic messages (e.g., clinical information). |
|  | The electronic messages shall be protected throughout the duration of its end-to- |
|  | end transport path. Cryptographic mechanisms shall be employed to protect |
|  | message integrity and confidentiality unless protected by alternative measures, |
|  | e.g., physical controls. |
|  | The organization shall never send unencrypted sensitive information (e.g., |
|  | covered information, PANs, FTI) by end-user messaging technologies (e.g., email, |
|  | instant messaging, and chat). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | 201 CMR 17.04(3) |
|  |
|  | AICPA C1.3 |
|  | AICPA CC5.7 |
|  | CMSRs 2013v2 SC-8 (HIGH) |
|  | CMSRs 2013v2 SC-8(1) (HIGH) |
|  | CMSRs 2013v2 SC-8(2) (HIGH) |
|  | CMSRs 2013v2 SC-CMS-1 (HIGH) |
|  | COBIT 4.1 DS5.11 |
|  | COBIT 5 DSS05.02 |
|  | CRR V2016 CM:G2.Q4 |
|  | FedRAMP SC-8 |
|  | HIPAA § 164.312(c)(1) |
|  | HIPAA § 164.312(c)(2) |
|  | HIPAA § 164.312(e)(1) |
|  | HIPAA § 164.312(e)(2)(i) |
|  | HIPAA § 164.312(e)(2)(ii) |
|  | IRS Pub 1075 v2014 9.3.16.6 |
|  |  |

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IRS Pub 1075 v2014 9.4.3

IRS Pub 1075 v2014 9.4.4

ISO 27799-2008 7.7.8.3

ISO/IEC 27002:2005 10.8.4

ISO/IEC 27002:2013 13.2.3

MARS-E v2 SC-8

MARS-E v2 SC-8(1)

MARS-E v2 SC-8(2)

MARS-E v2 SC-ACA-1

MARS-E v2 SC-ACA-2

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 SC-8

NIST SP 800-53 R4 SC-8(1)

NIST SP 800-53 R4 SC-8(2)

NRS 603A.215.2.a

PCI DSS v3.2 4.2

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

If FTI is allowed to be included within emails or email attachments, the agency must only transmit FTI to an authorized recipient.

Encrypt email transmissions that contain FTI using a FIPS 140-2 validated mechanism.

If FTI is allowed to be included within fax communications, the agency must only transmit FTI to an authorized recipient and must adhere to the following requirements:

1. Have a trusted staff member at both the sending and receiving fax machines; and
2. Accurately maintain broadcast lists and other preset numbers of frequent recipients of FTI.

**Control Reference: 09.w Interconnected Business Information Systems**

**Control Specification:** Policies and procedures shall be developed and implemented to protect information associated with the interconnection of business information systems.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Communications and Transmissions; Physical and Facility Security; Policies and |
|  |  |  | Procedures; User Access; Network Security |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |

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|  |  |  |
| --- | --- | --- |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 1 Implementation:** | Security and business implications shall be addressed for interconnecting |
|  |  |
|  |  | business information assets including: |
|  |  | 1. policy and appropriate controls to manage information sharing; |
|  |  | 2. excluding categories of sensitive business information and classified |
|  |  | documents if the system does not provide an appropriate level of |
|  |  | protection; |
|  |  | 3. categories of personnel, contractors or business partners allowed to use |
|  |  | the system and the locations from which it may be accessed; |
|  |  | 4. restricting selected systems and facilities to specific categories of user; |
|  |  | and |
|  |  | 5. identifying the status of users (e.g., employees of the organization or |
|  |  | contractors in directories for the benefit of other users). |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | AICPA C1.1 |
|  | **Mapping:** | AICPA C1.2 |
|  |  |
|  |  | AICPA C1.4 |
|  |  | HIPAA § 164.308(b)(1) |
|  |  | HIPAA § 164.308(b)(3) |
|  |  | HIPAA § 164.310(b) |
|  |  | HIPAA § 164.314(a)(2)(ii) |
|  |  | ISO/IEC 27002:2005 10.8.5 |
|  |  | NIST Cybersecurity Framework PR.AC-3 |
|  |  | NIST Cybersecurity Framework PR.AC-4 |
|  |  | NIST Cybersecurity Framework PR.DS-5 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization: |
|  | 1. Authorizes and approves connections of defined internal information |
|  | system components or classes of components (defined in the applicable |
|  | security plan) to the information system; and |
|  | 2. Documents, for each internal connection, the interface characteristics, |
|  | security requirements, and the nature of the information communicated |
|  | along with their security and business implications. |
|  | Security and business implications shall be addressed for interconnecting |
|  | business information assets including: |
|  | 1. known vulnerabilities in the administrative and accounting systems where |
|  | information is shared between different parts of the organization; |
|  | 2. restricting access to diary information relating to selected individuals (e.g., |
|  | personnel working on sensitive projects); and |
|  | 3. vulnerabilities of information in business communication systems (e.g., |
|  | recording phone calls or conference calls, confidentiality of calls, storage |
|  | of facsimiles, opening mail, distribution of mail). |
|  | Interconnected business information systems shall be linked to other requirements |
|  | and controls, including: |
|  | 1. the separation of operational systems from interconnected system; |
|  | 2. the retention and back-up of information held on the system; and |
|  | 3. the fallback requirements and arrangements. |
|  | A baseline shall be established for basic security hygiene in interconnected |
|  | systems. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CA-9 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CM-2 (HIGH) |
|  |
|  | COBIT 4.1 DS5.10 |
|  | COBIT 4.1 DS5.11 |
|  | COBIT 5 DSS05.02 |
|  | COBIT 5 DSS05.03 |
|  | FedRAMP CA-9 |
|  | FedRAMP CM-2 |
|  | HIPAA § 164.310(b) |
|  | IRS Pub 1075 v2014 9.3..5.2 |
|  | ISO 27799-2008 7.7.8.4 |
|  | ISO/IEC 27002:2005 10.8.5 |
|  |  |

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ISO/IEC 27002:2005 11.4.5

ISO/IEC 27002:2013 13.1.3

MARS-E v2 CM-2

NIST Cybersecurity Framework DE.AE-1

NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.AC-5

NIST Cybersecurity Framework PR.IP-1

NIST Cybersecurity Framework PR.IP-4

NIST SP 800-53 R4 CA-3

NIST SP 800-53 R4 CA-9

NIST SP 800-53 R4 CM-2

NRS 603A.215.1

PCI DSS v3.2 1.2

**Objective Name: 09.09 Electronic Commerce Services**

|  |  |
| --- | --- |
| **Control** | Ensure the security of electronic commerce services, and their secure use. |
| **Objective:** |

**Control Reference: 09.x Electronic Commerce Services**

**Control Specification:**

|  |  |
| --- | --- |
|  | Information involved in electronic commerce passing over public networks shall be |
|  | protected from fraudulent activity, contract dispute, and unauthorized disclosure or |
|  | modification. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization; Cryptography; Data Loss Prevention; Requirements (Legal and |
|  | Contractual); Third Parties and Contractors |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

The confidentiality and integrity for electronic commerce shall be maintained by ensuring the following:

1. the level of confidence each party requires in each other's claimed identity

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|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | (e.g., through authentication); |
|  |  | 2. | authorization processes associated with who may set prices, issue or sign |
|  |  |  | key trading documents; |
|  |  | 3. | ensuring that trading partners are fully informed of their authorizations; |
|  |  | 4. | determining and meeting requirements for confidentiality, integrity, proof |
|  |  |  | of dispatch and receipt of key documents, and the non-repudiation of |
|  |  |  | contracts (e.g., associated with tendering and contract processes); |
|  |  | 5. | the level of trust required in the integrity of advertised price lists; |
|  |  | 6. | the confidentiality of any covered data or information; |
|  |  | 7. | the confidentiality and integrity of any order transactions, payment |
|  |  |  | information, delivery address details, and confirmation of receipts; |
|  |  | 8. | the degree of verification appropriate to check payment information |
|  |  |  | supplied by a customer; |
|  |  | 9. | selecting the most appropriate settlement form of payment to guard |
|  |  |  | against fraud; |
|  |  | 10. | the level of protection required to maintain the confidentiality and integrity |
|  |  |  | of order information; |
|  |  | 11. | avoidance of loss or duplication of transaction information; |
|  |  | 12. | liability associated with any fraudulent transactions; and |
|  |  | 13. | insurance requirements. |
|  |  |  | |
|  | **Level 1** | 1 TAC § 390.2(a)(1) | |
|  | **Control Standard** | AICPA C1.2 | |
|  | **Mapping:** | AICPA C1.3 | |
|  |  |
|  |  | AICPA CC5.1 | |
|  |  | AICPA CC5.3 | |
|  |  | AICPA CC5.7 | |
|  |  | CMSRs 2013v2 AU-10 (HIGH) | |
|  |  | COBIT 4.1 DS5.11 | |
|  |  | CSA CCM v3.0.1 DSI-03 | |
|  |  | HIPAA § 164.312(c)(1) | |
|  |  | HIPAA § 164.312(c)(2) | |
|  |  | HIPAA § 164.312(e)(1) | |
|  |  | HIPAA § 164.312(e)(2)(i) | |
|  |  | HIPAA § 164.312(e)(2)(ii) | |
|  |  | ISO 27799-2008 7.7.9.1 | |
|  |  | ISO/IEC 27002:2005 10.9.1 | |
|  |  | MARS-E v2 AU-10 | |
|  |  | NIST Cybersecurity Framework PR.DS-1 | |
|  |  | NIST Cybersecurity Framework PR.DS-2 | |
|  |  | NIST SP 800-53 R4 AU-10 | |
|  |  |  | |
|  | **Level 2 Implementation Requirements** | | |
|  |  |  | |
|  | **Level 2** | Bed: Between 200 and 750 Beds | |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives | |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions | |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients | |

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|  |  |
| --- | --- |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | A documented agreement shall be committed and maintained for electronic |
|  | commerce arrangements between trading partners on the agreed terms of trading, |
|  | including details of authorization. Other agreements with information service and |
|  | value-added network providers shall also be required. |
|  | Attacks of the host(s) used for electronic commerce shall be addressed to provide |
|  | resilient service(s). The security implications of any network interconnection |
|  | required for the implementation of electronic commerce services shall be identified |
|  | and addressed. |
|  | Cryptographic controls shall be used to enhance security, taking into account |
|  | compliance with legal requirements. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 SC-8 (HIGH) |
| **Mapping:** | CMSRs 2013v2 SC-8(1) (HIGH) |
|  |
|  | FedRAMP SC-8 |
|  | HIPAA § 164.312(e)(1) |
|  | HIPAA § 164.312(e)(2)(i) |
|  | HIPAA § 164.312(e)(2)(ii) |
|  | IRS Pub 1075 v2014 9.3.16.6 |
|  | ISO/IEC 27002:2005 10.9.1 |
|  | ISO/IEC 27002:2013 14.1.2 |
|  | MARS-E v2 SC-8 |
|  | MARS-E v2 SC-8(1) |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PR.AT-3 |
|  | NIST Cybersecurity Framework PR.DS-1 |
|  | NIST Cybersecurity Framework PR.DS-2 |
|  |  |

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NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 SC-13

NIST SP 800-53 R4 SC-8

NIST SP 800-53 R4 SC-8(1)

**Level CMS Implementation Requirements Level CMS Implementation:**

The information system shall protect against an individual (or process acting on behalf of an individual) from falsely denying having performed a particular action.

|  |  |
| --- | --- |
| **Control Reference: 09.y On-line Transactions** | |
|  |  |
| **Control Specification:** | Information involved in online transactions shall be protected to prevent |
|  |
|  | incomplete transmission, misrouting, unauthorized message alteration, |
|  | unauthorized disclosure, unauthorized message duplication or replay. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authentication; Communications and Transmissions; Cryptography |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Data involved in electronic commerce and online transactions shall be checked to |
|  |
|  | determine if it contains covered information. |
|  | Security shall be maintained through all aspects of the transaction, ensuring that: |
|  | 1. user credentials of all parties are valid and verified; |
|  | 2. the transaction remains confidential; and |
|  | 3. privacy associated with all parties involved is retained. |
|  | Protocols used to communicate between all involved parties shall be secured |
|  | using cryptographic techniques (e.g., SSL). |
|  |  |
| **Level 1** | AICPA C1.2 |
| **Control Standard** | AICPA C1.3 |
| **Mapping:** | AICPA CC5.7 |
|  |
|  | CRR V2016 CM:G2.Q4 |
|  | CSA CCM v3.0.1 DSI-03 |
|  |  |

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ISO 27799-2008 7.7.9.1

ISO/IEC 27002:2005 10.9.2

ISO/IEC 27002:2013 14.1.3

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-2

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 IA-8

NIST SP 800-53 R4 SC-13

NIST SP 800-53 R4 SC-8

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to IRS Pub 1075 Compliance |
| **Regulatory Factors:** | Subject to the EU GDPR |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The use of electronic signatures by each of the parties involved in the transaction |
|  | shall be required. |
|  | The organization shall ensure the storage of the transaction details are located |
|  | outside of any publicly accessible environments (e.g., on a storage platform |
|  | existing on the organization's intranet) and not retained and exposed on a storage |
|  | medium directly accessible from the Internet. |
|  | Where a trusted authority is used (e.g., for the purposes of issuing and |
|  | maintaining digital signatures and/or digital certificates) security shall be integrated |
|  | and embedded throughout the entire end-to-end certificate/signature management |
|  | process. |
|  | Communications path between all involved parties shall be encrypted. The |
|  | protocols used for communications shall be enhanced to address any new |
|  | vulnerability, and the updated versions shall be adopted as soon as possible. |
|  |  |
| **Level 2** | CMSRs 2013v2 AU-10 (HIGH) |
| **Control Standard** | CSA CCM v3.0.1 DSI-03 |
|  |  |

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|  |  |
| --- | --- |
| **Mapping:** | GDPR Article 32(1)(a) |
|  | IRS Pub 1075 v2014 9.4.2 (E.10) |
|  | ISO 27799-2008 7.7.9.1 |
|  | ISO/IEC 27002:2005 10.9.2 |
|  | ISO/IEC 27002:2013 14.1.3 |
|  | MARS-E v2 AU-10 |
|  | NIST Cybersecurity Framework PR.DS-1 |
|  | NIST Cybersecurity Framework PR.DS-2 |
|  | NIST Cybersecurity Framework PR.DS-5 |
|  | NIST SP 800-53 R4 AU-10 |
|  | NIST SP 800-53 R4 SC-13 |
|  | NIST SP 800-53 R4 SC-2 |
|  | NIST SP 800-53 R4 SC-8 |
|  | Phase 1 CORE 153: Eligibility and Benefits Connectivity Rule v1.1.0 Subsection 5.1 |
|  |  |

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

All Internet transmissions in a data warehouse are to be encrypted with the use of HTTPS protocol and secure sockets layer encryption based on a certificate that contains a key no less than 128 bits in length, or FIPS 140-2 compliant, whichever is stronger. All sessions shall be encrypted and provide end-to-end encryption (i.e., from workstation to point of data), as data is at its highest risk during the ETL stages when it enters the warehouse.

Web server(s) that receive online transactions in a data warehouse shall be configured in a demilitarized zone (DMZ) to receive external transmissions but still have some measure of protection against unauthorized intrusion (e.g., by an IDS/IPS).

Application server(s) and database server(s) supporting a data warehouse shall be configured behind the firewalls for optimal security against unauthorized intrusion. Only authenticated applications and users shall be allowed access to these servers.

Transaction data shall be "swept" from the Web server(s) at frequent intervals, consistent with good system performance, and removed to a secured server behind the firewalls to minimize the risk that these transactions could be destroyed or altered by intrusion.

**Control Reference: 09.z Publicly Available Information**

|  |  |
| --- | --- |
| **Control Specification:** | The integrity of information being made available on a publicly available system |
|  |
|  | shall be protected to prevent unauthorized modification. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authorization |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 1 Implementation:** | There shall be a formal approval process before information is made publicly |
|  |  |
|  |  | available. In addition, all input provided from the outside to the system shall be |
|  |  | verified and approved. The source (authorship) of publicly available information |
|  |  | shall be stated. |
|  |  | The organization ensures that network access controls, operating system file |
|  |  | permissions, and application configurations protect the integrity of information |
|  |  | stored, processed, and transmitted by publicly accessible systems, as well as the |
|  |  | integrity of publicly accessible applications. |
|  |  |  |
|  | **Level 1** | AICPA C1.3 |
|  | **Control Standard** | AICPA CC5.1 |
|  | **Mapping:** | ISO 27799-2008 7.7.9.2 |
|  |  |
|  |  | ISO/IEC 27002:2005 10.9.3 |
|  |  | NIST Cybersecurity Framework PR.AC-4 |
|  |  | NIST Cybersecurity Framework PR.DS-6 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  |  |

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The organization shall:

1. designate individuals authorized to post information onto a publicly accessible information system;
2. train authorized individuals to ensure that publicly accessible information does not contain nonpublic information;
3. review the proposed content of information prior to posting onto the publically accessible information system prior to posting to ensure non-public information is not included;
4. review the content on the publicly accessible information systems for nonpublic information bi-weekly; and
5. remove nonpublic information from the publicly accessible information systems, if discovered.

The publicly accessible system shall be tested against weaknesses and failures prior to information being made available. Installation checklist and vulnerability testing shall be implemented to ensure security baselines and configuration baselines are met or exceeded.

Electronic publishing systems, especially those that permit feedback and direct entering of information, shall be carefully controlled so that:

1. information is obtained in compliance with any data protection legislation;
2. information input to, and processed by, the publishing system will be processed completely and accurately in a timely manner;
3. covered information will be protected during collection, processing, and storage; and
4. access controls to the publishing system do not allow unintended access to networks to which the system is connected.

Publicly available health information (as distinct from personal health information)

shall be archived.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-22 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CM-6 (HIGH) |
|  |
|  | CMSRs 2013v2 SC-CMS-2 (HIGH) |
|  | COBIT 4.1 DS7.2 |
|  | COBIT 5 DSS06.03 |
|  | FedRAMP AC-22 |
|  | FedRAMP CM-6 |
|  | IRS Pub 1075 v2014 9.3.1.17 |
|  | IRS Pub 1075 v2014 9.3.5.6 |
|  | ISO 27799-2008 7.7.9.2 |
|  | ISO/IEC 27001:2005 A10.9.3 |
|  | ISO/IEC 27001:2013 14.1.2 |
|  | MARS-E v2 CM-6 |
|  | NIST Cybersecurity Framework DE.CM-8 |
|  | NIST Cybersecurity Framework ID.GV-3 |

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|  |  |
| --- | --- |
|  | NIST Cybersecurity Framework ID.RA-1 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST Cybersecurity Framework PR.AT-2 |
|  | NIST Cybersecurity Framework PR.DS-1 |
|  | NIST Cybersecurity Framework PR.DS-2 |
|  | NIST Cybersecurity Framework PR.DS-6 |
|  | NIST Cybersecurity Framework PR.IP-1 |
|  | NIST SP 800-53 R4 AC-22 |
|  | NIST SP 800-53 R4 CM-6 |
|  |  |
| **Level 3 Implementation Requirements** | |
|  |  |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to FedRAMP Certification |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to MARS-E Requirements |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | Software, data, and other information requiring a high level of integrity being made |
|  | available on a publicly available system, shall be protected by appropriate |
|  | mechanisms, including digital signatures. The signatures themselves provide a |
|  | convenient point for either access or denial of service attack, and require extra |
|  | protection. Digital Signatures shall be protected on a secure, fault-tolerant system |
|  | (e.g., increased capacity and bandwidth, service redundancy) with protected |
|  | access and with full auditing. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 SC-5 (HIGH) |
| **Mapping:** | CMSRs 2013v2 SC-5(2) (HIGH) |
|  |
|  | FedRAMP SC-5 |
|  | IRS Pub 1075 v2014 9.3.16.4 |
|  | ISO/IEC 27002:2005 10.9.3 |
|  | ISO/IEC 27002:2013 14.1.2 |
|  | MARS-E v2 SC-5 |
|  |  |

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NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-6

NIST SP 800-53 R4 SC-5

NIST SP 800-53 R4 SC-5(2)

NIST SP 800-53 R4 SC-7

**Level CMS Implementation Requirements Level CMS Implementation:**

Websites are operated within the restrictions addressed in OMB directives M-10-22 "Guidance for Online Use of Web Measurement and Customization Technologies" and M-10-23 "Guidance for Agency Use of Third-Party Websites and Applications" and applicable CMS and DHHS directives and instruction.

The organization shall monitor the CMS and DHHS security programs to determine if there are any modified directives and instruction.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The agency must:

1. Designate individuals authorized to post information onto a publicly accessible information system;
2. Train authorized individuals to ensure that publicly accessible information does not contain FTI;
3. Review the proposed content of information prior to posting onto the publicly accessible information system to ensure that FTI is not included; and
4. iv. Review the content on the publicly accessible information system for FTI, at a minimum, quarterly and remove such information, if discovered.

**Objective Name: 09.10 Monitoring**

**Control**

**Objective:** Ensure information security events are monitored and recorded to detect unauthorized information processing activities in compliance with all relevant legal

requirements.

**Control Reference: 09.aa Audit Logging**

**Control Specification:**

Audit logs recording user activities, exceptions, and information security events shall be produced and kept for an agreed period to assist in future investigations and access control monitoring.

\*Required for HITRUST Certification CSF v9

|  |  |
| --- | --- |
| **Factor Type:** | System |

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|  |  |  |
| --- | --- | --- |
| **Topics:** | Audit and Accountability; Documentation and Records; Incident Response; User | |
|  | Access |  |
| **Level 1 Implementation Requirements** | | |
|  |  |  |
| **Level 1** |  |  |
| **Organizational Factors:** |  |  |
|  |  |  |
| **Level 1** | Applicable to all systems | |
| **System Factors:** |
|  |  |
|  |  | |
| **Level 1** | Subject to HITRUST De-ID Framework Requirements | |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code | |
|  |  |  |
| **Level 1 Implementation:** | Information systems processing covered information shall create a secure audit | |
|  |
|  | record each time a user accesses, creates, updates, or archives covered | |
|  | information via the system. | |
|  | The audit logs shall include: | |
|  | 1. | a unique user identifier; |
|  | 2. | a unique data subject (e.g., the patient) identifier; |
|  | 3. | the function performed by the user (e.g., log-in, including failed attempts; |
|  |  | record creation; access; update; etc.); and |
|  | 4. | the time and date that the function was performed. |
|  | Logs for operators or administrators shall also include: | |
|  | 1. | the type of event that occurred (e.g., success or failure); |
|  | 2. | the time at which an event occurred; |
|  | 3. | information about the event (e.g., files handled) or failure (e.g., error |
|  |  | occurred and corrective action taken); |
|  | 4. | the account(s) and administrator(s) or operator(s) involved; and |
|  | 5. | the process(es) involved. |
|  | Retention for audit logs shall be specified by the organization and retained | |
|  | accordingly. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | 21 CFR Part 11.10(b) | |
| **Mapping:** | 21 CFR Part 11.10(e) | |
|  |
|  | AICPA C1.7 | |
|  | AICPA CC4.1 | |
|  | CMSRs 2013v2 AR-4 (HIGH) | |
|  | CMSRs 2013v2 AU-3(HIGH) | |
|  | CMSRs 2013v2 AU-8 (HIGH) | |
|  | CMSRs 2013v2 AU-9(HIGH) | |
|  | COBIT 5 DSS05.04 | |
|  | CRR V2016 CM:G2.Q6 | |
|  | CSA CCM v3.0.1 IVS-01 | |
|  | De-ID Framework v1 Audit Logging/Monitoring: General | |
|  | De-ID Framework v1 Retention: Data Retention Policy | |
|  |  |  |

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FedRAMP AU-8

FFIEC IS v2016 A.6.20(d)

FFIEC IS v2016 A.6.21(b)

FFIEC IS v2016 A.6.22(f)

FFIEC IS v2016 A.6.27(a)

FFIEC IS v2016 A.6.35

FFIEC IS v2016 A.6.35(a)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(b)

HITRUST SME

IRS Pub 1075 v2014 9.3.3.10

IRS Pub 1075 v2014 9.3.3.11

IRS Pub 1075 v2014 9.3.3.4

ISO/IEC 27002:2005 10.10.1

ISO/IEC 27002:2005 10.10.2

ISO/IEC 27002:2005 10.10.3

ISO/IEC 27002:2005 10.10.4

ISO/IEC 27002:2013 12.4.1

ISO/IEC 27002:2013 12.4.2

ISO/IEC 27002:2013 12.4.3

MARS-E v2 AR-4

MARS-E v2 AU-3

MARS-E v2 AU-8

MARS-E v2 AU-9

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework DE.CM-3

NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 AR-4

NIST SP 800-53 R4 AU-11

NIST SP 800-53 R4 AU-3

NIST SP 800-53 R4 AU-8

NIST SP 800-53 R4 AU-9

NRS 603A.215.1

PCI DSS v3.2 10.2.1

PCI DSS v3.2 10.2.2

PCI DSS v3.2 10.3.1

PCI DSS v3.2 10.3.2

PCI DSS v3.2 10.3.3

PCI DSS v3.2 10.3.4

PCI DSS v3.2 10.3.5

PCI DSS v3.2 10.3.6

PCI DSS v3.2 10.3.7

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PCI DSS v3.2 10.5

PMI DSP Framework DE-1

PMI DSP Framework DE-2

**Level 2 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 2** |  |  |
|  | **Organizational Factors:** |  |  |
|  |  |  | |
|  | **Level 2** | Number of Interfaces: 25 to 75 | |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 | |
|  |  | Number of users of the system: 500 to 5,500 | |
|  |  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 | |
|  | **Regulatory Factors:** |
|  |  |  |
|  |  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: | |
|  |  |
|  |  | Messaging systems used to transmit messages containing covered information | |
|  |  | shall keep a log of message transmissions, such a log shall contain the time, date, | |
|  |  | origin, and destination of the message, but not its content. The organization shall | |
|  |  | carefully assess and determine the retention period for these audit logs, with | |
|  |  | particular reference to professional standards and legal obligations, in order to | |
|  |  | enable investigations to be carried out when necessary, and to provide evidence | |
|  |  | of misuse where necessary. | |
|  |  | Audit logs shall include, but are not limited to: | |
|  |  | 1. | dates, times, and details of key events (e.g., log-on and log-off); |
|  |  | 2. | records of successful and rejected system access attempts; |
|  |  | 3. | records of successful and rejected data and other resource access |
|  |  |  | attempts; |
|  |  | 4. | changes to system configuration and procedures for managing |
|  |  |  | configuration changes; |
|  |  | 5. | use of privileges; |
|  |  | 6. | use of system utilities and applications; |
|  |  | 7. | files accessed and the kind of access; |
|  |  | 8. | network addresses and protocols; |
|  |  | 9. | alarms raised by the access control system; |
|  |  | 10. | activation and de-activation of protection systems, including anti-virus |
|  |  |  | systems and intrusion detection systems, and identification and |
|  |  |  | authentication mechanisms; and |
|  |  | 11. | creation and deletion of system level objects. |
|  |  | The organization shall provide a rationale for why the auditable events are | |
|  |  | deemed adequate to support after-the-fact investigations of security incidents and | |
|  |  | which events require auditing on a continuous basis in response to specific | |
|  |  | situations. The listing of auditable events shall be reviewed and updated within | |
|  |  | every three hundred sixty-five (365) days. Information systems' audit logging | |
|  |  | systems shall be operational at all times while the information system being | |
|  |  | audited is available for use. Where necessary for highly sensitive logs, separation | |
|  |  | of duties and split key access shall be employed. | |
|  |  | Audit records shall be retained for ninety (90) days, and old records archived for | |

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|  |  |  |  |
| --- | --- | --- | --- |
|  | one (1) year to provide support for after-the-fact investigations of security incidents | | |
|  | and to meet regulatory, and the organization's, retention requirements. | | |
|  |  | | |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | | |
| **Control Standard** | 21 | CFR Part 11.10(b) | |
| **Mapping:** | 21 | CFR Part 11.10(e) | |
|  |
|  | 23 | NYCRR 500.06(a)(2) | |
|  | AICPA C1.7 | |  |
|  | CIS CSC v6 14.6 | | |
|  | CIS CSC v6 | | 16.14 |
|  | CIS CSC v6 | | 6.2 |
|  | CIS CSC v6 | | 7.4 |

CMSRs 2013v2 AC-6(9)

CMSRs 2013v2 AU-11 (HIGH)

CMSRs 2013v2 AU-2 (3)(HIGH)

CMSRs 2013v2 AU-2 (HIGH)

CMSRs 2013v2 AU-2(3) (HIGH)

CMSRs 2013v2 AU-3(HIGH)

CMSRs 2013v2 AU-5 (HIGH)

CMSRs 2013v2 AU-9 (HIGH)

CMSRs 2013v2 AU-9(4) (HIGH)

CMSRs 2013v2 AU-9(5) (HIGH)

COBIT 5 DSS05.04

CSA CCM v3.0.1 IVS-01

FedRAMP AC-6(9)

FedRAMP AU-2

FedRAMP AU-5

FedRAMP AU-9(4)

FedRAMP SC-8

FFIEC IS v2016 A.6.21(b)

FFIEC IS v2016 A.6.22(f)

FFIEC IS v2016 A.6.27(a)

FFIEC IS v2016 A.6.35

FFIEC IS v2016 A.6.35(a)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(b)

HITRUST SME

IRS Pub 1075 v2014 9.3.1.5

IRS Pub 1075 v2014 9.3.1.6

IRS Pub 1075 v2014 9.3.3.10

IRS Pub 1075 v2014 9.3.3.11

IRS Pub 1075 v2014 9.3.3.3

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IRS Pub 1075 v2014 9.3.3.4

ISO 27799-2008 7.7.10.2

ISO/IEC 27002:2005 10.10.1

ISO/IEC 27002:2005 10.10.2

ISO/IEC 27002:2005 10.10.3

ISO/IEC 27002:2013 12.4.1

ISO/IEC 27002:2013 12.4.2

MARS-E v2 AC-6(9)

MARS-E v2 AU-11

MARS-E v2 AU-2

MARS-E v2 AU-3

MARS-E v2 AU-5

MARS-E v2 AU-9

MARS-E v2 SC-8(1)

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework DE.CM-3

NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 AC-6(9)

NIST SP 800-53 R4 AU-2

NIST SP 800-53 R4 AU-2(3)

NIST SP 800-53 R4 AU-3

NIST SP 800-53 R4 AU-5

NIST SP 800-53 R4 AU-5(4)

NIST SP 800-53 R4 AU-9

NIST SP 800-53 R4 AU-9(4)

NIST SP 800-53 R4 AU-9(5)

NRS 603A.215.1

PCI DSS v3.2 10.2

PCI DSS v3.2 10.2.4

PCI DSS v3.2 10.2.7

PCI DSS v3.2 10.3.1

PCI DSS v3.2 10.3.2

PCI DSS v3.2 10.3.3

PCI DSS v3.2 10.3.5

PCI DSS v3.2 10.7

PMI DSP Framework DE-1

PMI DSP Framework DE-2

PMI DSP Framework PR.DS-5

**Level 3 Implementation Requirements**

**Level 3**

**Organizational Factors:**

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|  |  |  |
| --- | --- | --- |
| **Level 3** | Number of Interfaces: Greater than 75 | |
| **System Factors:** | Number of transactions per day: Greater than 85,000 | |
|  | Number of users of the system: Greater than 5,500 | |
|  |  | |
| **Level 3** | Subject to Banking Requirements | |
| **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 | |
|  | Subject to FedRAMP Certification | |
|  | Subject to FISMA Compliance | |
|  | Subject to IRS Pub 1075 Compliance | |
|  | Subject to MARS-E Requirements | |
|  | Subject to PCI Compliance | |
|  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |
| **Level 3 Implementation:** | Level 2 plus: | |
|  |
|  | 1. | server alerts and error messages; |
|  | 2. | user log-on and log-off (successful or unsuccessful); |
|  | 3. | all system administration activities; |
|  | 4. | modification of privileges and access; |
|  | 5. | start-up and shutdown; |
|  | 6. | application modifications; |
|  | 7. | application alerts and error messages; |
|  | 8. | configuration changes; |
|  | 9. | account creation, modification, or deletion; |
|  | 10. | file creation and deletion; |
|  | 11. | read access to sensitive information; |
|  | 12. | modification to sensitive information; and |
|  | 13. | printing sensitive information. |
|  | The information system also generates audit records containing the following | |
|  | additional, more detailed, information: | |
|  | 1. | Filename accessed; |
|  | 2. | Program or command used to initiate the event; and |
|  | 3. | Source and destination addresses. |
|  | Disclosures of covered information shall be recorded. Information type, date, time, | |
|  | receiving party, and releasing party shall be logged. The organization shall verify | |
|  | every ninety (90) days for each extract that the data is erased or its use is still | |
|  | required. | |
|  | Account creation, modification, disabling, enabling and removal actions shall be | |
|  | automatically logged and audited providing notification, as required, to appropriate | |
|  | individuals. | |
|  |  | |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | 21 CFR Part 11.10(e) | |
| **Mapping:** | AICPA C1.7 | |
|  |
|  | CIS CSC v6 5.4 | |
|  | CMSRs 2013v2 AC-2(4) (HIGH) | |
|  | CMSRs 2013v2 AC-6(9) | |
|  | CMSRs 2013v2 AU-12 (HIGH) | |
|  |  |  |

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CMSRs 2013v2 AU-2 (HIGH)

CMSRs 2013v2 AU-3 (HIGH)

CMSRs 2013v2 AU-3(1) (HIGH)

COBIT 5 DSS05.04

CSA CCM v3.0.1 IVS-01

FedRAMP AC-2(4)

FedRAMP AC-6(9)

FedRAMP AU-3

FedRAMP AU-9

FFIEC IS v2016 A.6.27(a)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(b)

HITRUST SME

IRS Pub 1075 v2014 9.3.3.2

IRS Pub 1075 v2014 9.3.3.3

IRS Pub 1075 v2014 9.3.3.4

IRS Pub 1075 v2014 9.4.11

IRS Pub 1075 v2014 9.4.13

IRS Pub 1075 v2014 9.4.18

IRS Pub 1075 v2014 9.4.3

IRS Pub 1075 v2014 9.4.9

ISO 27799-2008 7.7.10.2

ISO/IEC 27002:2005 10.10.1

ISO/IEC 27002:2013 12.4.1

MARS-E v2 AC-2(4)

MARS-E v2 AC-6(9)

MARS-E v2 AR-4

MARS-E v2 AU-12

MARS-E v2 AU-2

MARS-E v2 AU-3

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework DE.CM-3

NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 AC-2(4)

NIST SP 800-53 R4 AC-6(9)

NIST SP 800-53 R4 AR-4

NIST SP 800-53 R4 AU-2

NIST SP 800-53 R4 AU-3

NIST SP 800-53 R4 AU-3(1)

NRS 603A.215.1

PCI DSS v3.2 10.2.5

PCI DSS v3.2 10.2.6

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PMI DSP Framework DE-1

PMI DSP Framework PR.DS-5

**Level CIS Implementation Requirements Level CIS Implementation:**

Systems record logs in a standardized format such as syslog entries or those outlined by the Common Event Expression initiative. If systems cannot generate logs in a standardized format, the organization deploys log normalization tools c to convert logs into such a format.

The organization logs all URL requests from each of the organization's systems, whether onsite or a mobile device, in order to identify potentially malicious activity and assist incident handlers with identifying potentially compromised systems.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall audit inspection reports, including a record of corrective actions, and the audit reports shall be retained by the organization for a minimum of three (3) years from the date the inspection was completed.

Audit records shall be compiled from multiple components throughout the system into a system-wide (logical or physical) audit trail that is time-correlated to within +/- five (5) minutes. The organization shall centrally manage the content of audit records generated by individual components throughout the information system.

A real-time alert shall be provided when the audit record log is full or there is an authentication or encryption logging failure.

The information system provides the capability for defined individuals or roles (defined in the applicable security plan) to change the auditing to be performed on defined information system components (defined in the applicable security plan) based on defined selectable event criteria (defined in the applicable security plan) within minutes.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The service provider retains audit records on-line for at least ninety (90) days and further preserves audit records off-line for a period that is in accordance with National Archives and Records Administration (NARA) requirements.

Audit logging and monitoring is coordinated between the service provider and the organization and is documented and accepted by the Joint Authorization Board (JAB) and Authorizing Official (AO).

The listing of auditable events and supporting rational are reviewed and updated periodically within every three hundred sixty five (365) days or whenever changes in the threat environment are communicated to the service provider by the Joint Authorization Board (JAB).

The information system generates audit records containing the following detailed

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information: (i) session; (ii) connection; or (iii) activity duration.

The service provider defines audit record types and are approved and accepted by the Joint Authorization Board (JAB) and Authorizing Official (AO).

The information system generates audit records for client-server transactions containing the following detailed information: (i) bytes received and bytes sent; (ii) bytes received and bytes sent; and (iii) bytes received and bytes sent. /p>

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The organization shall provide an audit record generation capability and audit the following events, at a minimum:

1. Log onto system;
2. Log off of system;
3. Change of password;
4. All system administrator commands, while logged on as system administrator;
5. Switching accounts or running privileged actions from another account;
6. (e.g., Linux/Unix SU or Windows RUNAS);
7. Creation or modification of super-user groups;
8. Subset of security administrator commands, while logged on in the security administrator role;
9. Subset of system administrator commands, while logged on in the user role;
10. Clearing of the audit log file;
11. Startup and shutdown of audit functions;
12. Use of identification and authentication mechanisms (e.g., user ID and password);
13. Change of file or user permissions or privileges (e.g., use of suid/guid, chown, su);
14. Remote access outside of the corporate network communication channels (e.g., modems, dedicated VPN) and all dial-in access to the system;
15. Changes made to an application or database by a batch file;
16. Application-critical record changes;
17. Changes to database or application records, where the application has been bypassed to produce the change (via a file or other database utility);
18. All system and data interactions concerning FTI; and
19. Additional platform-specific events, as defined in SCSEMs located on the Office of Safeguards Website.

The organization shall audit records for the following events in addition to those specified:

1. all successful and unsuccessful authorization attempts;
2. all changes to logical access control authorities (e.g., rights, permissions);
3. all system changes with the potential to compromise the integrity of audit policy configurations, security policy configurations and audit record generation services;
4. the audit trail shall capture the enabling or disabling of audit report generation services; and

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1. the audit trail shall capture command line changes, batch file changes and queries made to the system (e.g., operating system, application, and database).

The organization shall also:

1. allow designated agency officials to select which auditable events are to be audited by specific components of the information system;
2. coordinate the security audit function with other agency entities requiring audit-related information to enhance mutual support and to help guide the selection of auditable events;
3. provide a rationale for why the auditable events are deemed to be adequate to support after-the-fact investigations of security incidents; and
4. review and update the audited events at a minimum, annually.

Audit logs must enable tracking activities taking place on the system. Pub 1075, Exhibit 9, System Audit Management Guidelines, contains requirements for creating audit-related processes at the operating system, software, and database levels. Auditing must be enabled to the extent necessary to capture access, modification, deletion, and movement of FTI by each unique user. This auditing requirement also applies to data tables or databases, embedded in or residing outside of the application, that contain FTI.

Information systems generate audit records containing details to facilitate the reconstruction of events if unauthorized activity or a malfunction occurs or is suspected in the audit records for audit events identified by type, location, or subject.

Audit logging must be implemented to properly track all email that contains FTI.

Multifunction Devices (MFDs) and its print spoolers shall have auditing enabled, including the auditing of user access and fax logs (if fax is enabled).

SAN components must maintain an audit trail of access to FTI in the SAN environment.

To use FTI in an 802.11 WLAN environment, the agency must enable security event logging on WLAN components.

**Level HIX Implementation Requirements Level HIX Implementation:**

The information system includes the capability to include more detailed information in the audit records for audit events identified by type, location, or subject.

The organization archives old audit records for ten (10) years to provide support for after-the-fact investigations of security incidents and to meet regulatory and organizational information retention requirements.

Audit records are compiled from multiple components throughout the system into a system-wide (logical or physical), time-correlated audit trail.

The organization defines and employs methods for coordinating organization-

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defined audit information among external organizations when audit information is transmitted across organizational boundaries (typically when using information systems and/or services of external organizations).

**Level PCI Implementation Requirements Level PCI Implementation:**

A service provider shall protect each organization's hosted environment and data by ensuring logging and audit trails are enabled and unique to each organization's (customer's) cardholder data environment and consistent with PCI DSS v3 Requirement 10.

**Level Title 23 NYCRR Part500 Implementation Requirements Level Title 23 NYCRR Part**

**500 Implementation:** The covered entity must maintain audit records designed to detect and respond to cybersecurity events that have a reasonable likelihood of materially harming any

material part of the normal operations of the covered entity for three (3) years.

|  |  |
| --- | --- |
| **Control Reference: 09.ab Monitoring System Use** | |
|  |  |
| **Control Specification:** | Procedures for monitoring use of information processing systems and facilities |
|  |
|  | shall be established to check for use and effectiveness of implemented controls. |
|  | The results of the monitoring activities shall be reviewed regularly. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Incident Response; Monitoring; Requirements (Legal and Contractual); User |
|  | Access |
|  |  |

**Level 1 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **Organizational Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** | Applicable to all systems | |
|  | **System Factors:** |
|  |  |  |
|  |  |  |  |
|  | **Level 1** | Subject to Texas Health and Safety Code | |
|  | **Regulatory Factors:** |
|  |  |  |
|  |  |  |  |
|  | **Level 1 Implementation:** | The organization shall comply with all relevant legal requirements applicable to its | |
|  |  |
|  |  | monitoring activities. Items that shall be monitored include: | |
|  |  | 1. | authorized access; and |
|  |  | 2. | unauthorized access attempts. |
|  |  | The organization specifies how often audit logs are reviewed, how the reviews are | |
|  |  | documented, and the specific roles and responsibilities of the personnel | |

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|  |  |  |  |
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|  |  |  | conducting the reviews, including the professional certifications or other |
|  |  |  | qualifications required. |
|  |  |  | The organization shall periodically test and its monitoring and detection |
|  |  |  | processes, remediate deficiencies, and improve its processes. |
|  |  |  | Information collected from multiple sources shall be aggregated for review. |
|  |  |  |  |
|  | **Level 1** |  | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** |  | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Mapping:** |  | 201 CMR 17.03(2)(h) |
|  |  |  |
|  |  |  | 23 NYCRR 500.14(a) |
|  |  |  | AICPA CC2.4 |
|  |  |  | AICPA CC4.1 |
|  |  |  | AICPA CC5.8 |
|  |  |  | CIS CSC v6 8.3 |
|  |  |  | CMSRs 2013v2 SI-4 (HIGH) |
|  |  |  | CRR V2016 VM:G1.Q5 |
|  |  |  | CSA CCM v3.0.1 IVS-01 |
|  |  |  | FedRAMP SI-4 |
|  |  |  | FFIEC IS v2016 A.6.22(f) |
|  |  |  | FFIEC IS v2016 A.6.35 |
|  |  |  | FFIEC IS v2016 A.6.35(c) |
|  |  |  | HIPAA § 164.308(a)(1)(ii)(D) |
|  |  |  | HIPAA § 164.308(a)(3)(ii)(A) |
|  |  |  | HIPAA § 164.308(a)(4)(i) |
|  |  |  | HIPAA § 164.308(a)(4)(ii)(B) |
|  |  |  | HIPAA § 164.308(a)(5)(ii)(B) |
|  |  |  | HIPAA § 164.308(a)(5)(ii)(C) |
|  |  |  | HIPAA § 164.312(b) |
|  |  |  | IRS Pub 1075 v2014 9.3.17.4 |
|  |  |  | ISO/IEC 27002:2005 10.10 |
|  |  |  | MARS-E v2 SI-4 |
|  |  |  | NIST Cybersecurity Framework DE.DP-2 |
|  |  |  | NIST Cybersecurity Framework DE.DP-3 |
|  |  |  | NIST Cybersecurity Framework DE-AE-3 |
|  |  |  | NIST Cybersecurity Framework DE-DP-5 |
|  |  |  | NIST Cybersecurity Framework ID.GV-3 |
|  |  |  | NIST SP 800-53 R4 SI-4 |
|  |  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |  |  |
|  |  | **Level 2 Implementation Requirements** | |
|  |  |  |  |

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| --- | --- | --- | --- |
|  | **Level 2** |  |  |
|  | **Organizational Factors:** |  |  |
|  |  |  | |
|  | **Level 2** | Number of Interfaces: 25 to 75 | |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 | |
|  |  | Number of users of the system: 500 to 5,500 | |
|  |  |  | |
|  | **Level 2** | Subject to 23 NYCRR 500 | |
|  | **Regulatory Factors:** | Subject to FTC Red Flags Rule | |
|  |  | Subject to State of Massachusetts Data Protection Act | |
|  |  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: | |
|  |  |
|  |  | Information systems containing covered information shall actively be provided with | |
|  |  | automated assets for monitoring events of the system(s), detecting attacks, and | |
|  |  | analyzing logs and audit trails that: | |
|  |  | 1. | allow the identification of all system users who have accessed or modified |
|  |  |  | a given record(s) over a given period of time; and |
|  |  | 2. | allow the identification of all records that have been accessed or modified |
|  |  |  | by a given system user over a given period of time. |
|  |  | The organization monitors (e.g., host-based monitoring) the information system to | |
|  |  | identify irregularities or anomalies that are indicators of a system malfunction or | |
|  |  | compromise and help confirm the system is functioning in an optimal, resilient and | |
|  |  | secure state. | |
|  |  | Monitoring devices shall be strategically deployed within the information system | |
|  |  | (e.g., at selected perimeter locations, near server farms supporting critical | |
|  |  | applications) to collect essential information. Monitoring devices shall also be | |
|  |  | deployed at ad hoc locations within the system to track specific transactions. | |
|  |  | Additionally, these devices shall be used to track the impact of security changes to | |
|  |  | the information system. | |
|  |  | The organization deploys NetFlow collection and analysis to DMZ network flows to | |
|  |  | detect anomalous activity. | |
|  |  | The organization: | |
|  |  | 1. | Monitors physical access to the facility where the information system |
|  |  |  | resides to detect and respond to physical security incidents; |
|  |  | 2. | Reviews physical access logs weekly and upon occurrence of security |
|  |  |  | incidents involving physical security; and |
|  |  | 3. | Coordinates results of reviews and investigations with the organization's |
|  |  |  | incident response capability. |
|  |  | Monitoring of authorized access shall include: | |
|  |  | 1. | the user ID; |
|  |  | 2. | the date and time of key events; |
|  |  | 3. | the types of events; |
|  |  | 4. | the files accessed; and |
|  |  | 5. | the program/utilities used. |

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|  |  |  |
| --- | --- | --- |
|  | All privileged operations shall be monitored including: | |
|  | 1. | the use of privileged accounts (e.g., supervisor, root, administrator); |
|  | 2. | the system start-up and stop; and |
|  | 3. | I/O device attachment/detachment. |
|  | Monitoring of unauthorized access attempts shall include: | |
|  | 1. | failed or rejected user actions, including attempts to access deactivated |
|  |  | accounts; |
|  | 2. | failed or rejected actions involving data and other resources; |
|  | 3. | access policy violations and notifications for network gateways and |
|  |  | firewalls; and |
|  | 4. | alerts from proprietary intrusion detection systems. |
|  | System alerts or failures shall be monitored including: | |
|  | 1. | console alerts or messages; |
|  | 2. | system log exceptions; |
|  | 3. | network management alarms; |
|  | 4. | alarms raised by the access control system (e.g., intrusion detection, |
|  |  | intrusion prevention, or networking monitoring software); and |
|  | 5. | changes to, or attempts to change, system security settings and controls. |
|  | The information system shall provide the capability to automatically process audit | |
|  | records in the information system for events of interest based on selectable event | |
|  | criteria. |  |
|  | Systems shall support audit reduction and report generation that supports | |
|  | expeditious, on-demand review, analysis, reporting and after-the-fact incident | |
|  | investigations of security incidents and does not alter the original content or time | |
|  | marking of audit records. | |
|  |  | |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | 16 CFR Part §681 Appendix A III(b) | |
| **Mapping:** | 23 NYCRR 500.14(a) | |
|  |
|  | CIS CSC v6 12.2 | |
|  | CIS CSC v6 12.9 | |
|  | CIS CSC v6 13.7 | |
|  | CIS CSC v6 15.9 | |
|  | CIS CSC v6 16.10 | |
|  | CIS CSC v6 16.8 | |
|  | CIS CSC v6 6.5 | |
|  | CIS CSC v6 8.1 | |
|  | CMSRs 2013v2 AR-4 (HIGH) | |
|  | CMSRs 2013v2 AU-2 (HIGH) | |
|  | CMSRs 2013v2 AU-3 (HIGH) | |
|  | CMSRs 2013v2 AU-7 (HIGH) | |
|  |  |  |

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CMSRs 2013v2 AU-7(1) (HIGH)

CMSRs 2013v2 PE-6 (HIGH)

CMSRs 2013v2 SC-7(12) (HIGH)

CMSRs 2013v2 SI-4 (HIGH)

CMSRs 2013v2 SI-4(2) (HIGH)

COBIT 4.1 DS5.7

COBIT 5 DSS05.05

De-ID Framework v1 Audit Logging/Monitoring: General

FedRAMP AU-2

FedRAMP AU-7

FedRAMP PE-6

FedRAMP SI-4

FedRAMP SI-4(2)

FedRAMP SI-4(23)

FFIEC IS v2016 A.6.20(d)

FFIEC IS v2016 A.6.21(f)

FFIEC IS v2016 A.6.21(g)

FFIEC IS v2016 A.6.22(f)

FFIEC IS v2016 A.6.35

FFIEC IS v2016 A.6.35(c)

FFIEC IS v2016 A.8.1(h)

FFIEC IS v2016 A.8.5(a)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(b)

IRS Pub 1075 v2014 4.3.2

IRS Pub 1075 v2014 9.3.11.6

IRS Pub 1075 v2014 9.3.17.4

IRS Pub 1075 v2014 9.3.3.3

IRS Pub 1075 v2014 9.3.3.4

IRS Pub 1075 v2014 9.3.3.8

ISO 27799-2008 7.7.10.3

ISO/IEC 27002:2005 10.10.2

ISO/IEC 27002:2005 12.5.4

ISO/IEC 27002:2013A 12.4.1

MARS-E v2 AR-12

MARS-E v2 AU-2

MARS-E v2 AU-3

MARS-E v2 AU-7

MARS-E v2 AU-7(1)

MARS-E v2 PE-6

MARS-E v2 SC-7(12)

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MARS-E v2 SI-4

MARS-E v2 SI-4(2)

NIST Cybersecurity Framework DE.AE-2

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework DE.DP-2

NIST Cybersecurity Framework PR.PT-1

NIST Cybersecurity Framework RS.CO-3

NIST SP 800-53 R4 AR-4

NIST SP 800-53 R4 AU-2

NIST SP 800-53 R4 AU-3

NIST SP 800-53 R4 AU-7

NIST SP 800-53 R4 AU-7(1)

NIST SP 800-53 R4 PE-6

NIST SP 800-53 R4 SI-4

NIST SP 800-53 R4 SI-4(2)

PMI DSP Framework DE-2

PMI DSP Framework PR.DS-5

**Level 3 Implementation Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level 3** |  |  |
|  | **Organizational Factors:** |  |  |
|  |  |  | |
|  | **Level 3** | Number of Interfaces: Greater than 75 | |
|  | **System Factors:** | Number of transactions per day: Greater than 85,000 | |
|  |  | Number of users of the system: Greater than 5,500 | |
|  |  |  | |
|  | **Level 3** | Subject to Banking Requirements | |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 | |
|  |  | Subject to CRR V2016 | |
|  |  | Subject to FedRAMP Certification | |
|  |  | Subject to FISMA Compliance | |
|  |  | Subject to HITRUST De-ID Framework Requirements | |
|  |  | Subject to IRS Pub 1075 Compliance | |
|  |  | Subject to MARS-E Requirements | |
|  |  | Subject to PCI Compliance | |
|  |  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: | |
|  |  |
|  |  | Unauthorized remote connections to the information systems shall be monitored | |
|  |  | and reviewed at least quarterly, and appropriate action shall be taken if an | |
|  |  | unauthorized connection is discovered. | |
|  |  | The results of monitoring activities shall be reviewed daily, through the use of | |
|  |  | automated tools, for: | |
|  |  | 1. | all security events; |
|  |  | 2. | logs of all critical system components; and |

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1. logs of all servers that perform security functions like intrusion detection system (IDS), intrusion prevention system (IPS) and authentication, authorization, and accounting protocol (AAA) servers (for example, RADIUS).

The automated tools shall generate alert notification for technical staff review and assessment.

The organization shall review logs of all other system components periodically based on its policies and risk management strategy, as determined by the organization's annual risk assessment.

System records shall be reviewed for:

1. initialization sequences;
2. log-ons and errors;
3. system processes and performance; and
4. system resources utilization.

The reviews shall be conducted daily, and the results shall be used to determine anomalies on demand. An alert notification shall be generated for technical personnel to review and analyze.

Suspicious activity or suspected violations on the information system identified during the review process shall be investigated, with findings reported to appropriate officials and appropriate actions taken in accordance with the incident response or organizational policies.

Manual reviews of system audit records shall be performed randomly on demand, but at least once every thirty (30) days.

The organization shall employ automated mechanisms to integrate the audit review, analysis, and reporting processes to support organizational processes for investigation and response to suspicious activities.

The organization shall employ automated tools to support near real-time analysis of events and maintain an audit log to track prohibited sources and services. Inbound and outbound communications shall be monitored at an organization-defined frequency for unusual or unauthorized activities or conditions.

The organization shall specify the permitted actions for information system processes, roles, and/or users associated with review, analysis, and reporting of audit records (e.g., read, write, execute, append, and delete).

The organization deploys a change-detection mechanism (e.g., file-integrity monitoring tools) to alert personnel to unauthorized modification of critical system files, configuration files, or content files; configures the software to perform critical file comparisons at least weekly, and responds to any alerts generated.

The information system shall provide near-real-time alerts when the following indications of compromise or potential compromise occur:

1. presence of malicious code;
2. unauthorized export of information;

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1. signaling to an external information system; or
2. potential intrusions.

The organization analyzes and correlates audit records across different repositories using a security information and event management (SIEM) tool or log analytics tools for log aggregation and consolidation from multiple systems/machines/devices, and correlates this information with input from non-technical sources to gain and enhance organization-wide situational awareness. Using the SIEM tool, the organization (system administrators and security personnel) devises profiles of common events from given systems/machines/devices so that it can tune detection to focus on unusual activity, avoid false positives, more rapidly identify anomalies, and prevent overwhelming analysts with insignificant alerts.

|  |  |
| --- | --- |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 12.10 |
| **Mapping:** | CIS CSC v6 12.2 |
|  |
|  | CIS CSC v6 12.8 |
|  | CIS CSC v6 13.3 |
|  | CIS CSC v6 13.6 |
|  | CIS CSC v6 13.9 |
|  | CIS CSC v6 20.2 |
|  | CIS CSC v6 6.4 |
|  | CIS CSC v6 6.6 |
|  | CMSRs 2013v2 AC-2(12) (HIGH) |
|  | CMSRs 2013v2 AU-6 (HIGH) |
|  | CMSRs 2013v2 AU-6(1) (HIGH) |
|  | CMSRs 2013v2 AU-6(3) (HIGH) |
|  | CMSRs 2013v2 AU-6(5) (HIGH) |
|  | CMSRs 2013v2 AU-6(6) (HIGH) |
|  | CMSRs 2013v2 AU-6) (HIGH) |
|  | CMSRs 2013v2 AU-7(1) (HIGH) |
|  | CMSRs 2013v2 PE-6(4) (HIGH) |
|  | CMSRs 2013v2 SC-7(12) (HIGH) |
|  | CMSRs 2013v2 SI-3 (HIGH) |
|  | CMSRs 2013v2 SI-4 (HIGH) |
|  | CMSRs 2013v2 SI-4(1) (HIGH) |
|  | CMSRs 2013v2 SI-4(2) (HIGH) |
|  | CMSRs 2013v2 SI-4(3) (HIGH) |
|  | CMSRs 2013v2 SI-4(4) (HIGH) |
|  | CMSRs 2013v2 SI-4(5) (HIGH) |
|  | CMSRs 2013v2 SI-7(2) (HIGH) |
|  | COBIT 4.1 DS5.9 |
|  | COBIT 5 DSS05.01 |

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COBIT 5 DSS05.07

CRR V2016 CM:G2.Q6

CRR V2016 IM:G2.Q2

CSA CCM v3.0.1 IVS-01

De-ID Framework v1 Audit Logging/Monitoring: Aberrant and Inappropriate Use

FedRAMP AC-17

FedRAMP AU-6

FedRAMP AU-6(1)

FedRAMP AU-6(3)

FedRAMP AU-7(1)

FedRAMP SI-3

FedRAMP SI-4

FedRAMP SI-4(16)

FedRAMP SI-4(2)

FedRAMP SI-4(2)

FedRAMP SI-4(2)

FedRAMP SI-4(4)

FedRAMP SI-4(4)

FedRAMP SI-4(4)

FedRAMP SI-4(5)

FedRAMP SI-4(5)

FedRAMP SI-4(5)

FFIEC IS v2016 A.6.35(d)

FFIEC IS v2016 A.8.1(h)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(b)

IRS Pub 1075 v2014 6.4.1

IRS Pub 1075 v2014 9.3.16.6

IRS Pub 1075 v2014 9.3.17.3

IRS Pub 1075 v2014 9.3.17.4

IRS Pub 1075 v2014 9.3.3.7

IRS Pub 1075 v2014 9.3.3.8

IRS Pub 1075 v2014 9.4.11

IRS Pub 1075 v2014 9.4.13

IRS Pub 1075 v2014 9.4.14

IRS Pub 1075 v2014 9.4.15

IRS Pub 1075 v2014 9.4.18

IRS Pub 1075 v2014 9.4.2 (E.10)

IRS Pub 1075 v2014 9.4.9

MARS-E v2 AC-17

MARS-E v2 AU-6

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MARS-E v2 AU-6(1)

MARS-E v2 AU-6(3)

MARS-E v2 AU-7(1)

MARS-E v2 SC-7(12)

MARS-E v2 SI-3

MARS-E v2 SI-4

MARS-E v2 SI-4(1)

MARS-E v2 SI-4(2)

MARS-E v2 SI-4(4)

MARS-E v2 SI-4(5)

NIST Cybersecurity Framework DE.AE-2

NIST Cybersecurity Framework DE.AE-3

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework DE.CM-4

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework DE.DP-2

NIST Cybersecurity Framework DE.DP-4

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework PR.PT-1

NIST Cybersecurity Framework RS.AN-1

NIST Cybersecurity Framework RS.CO-2

NIST SP 800-53 R4 AC-2(12)

NIST SP 800-53 R4 AU-6

NIST SP 800-53 R4 AU-6(1)

NIST SP 800-53 R4 AU-6(3)

NIST SP 800-53 R4 AU-6(9)

NIST SP 800-53 R4 AU-7(1)

NIST SP 800-53 R4 SI-3

NIST SP 800-53 R4 SI-4

NIST SP 800-53 R4 SI-4(1)

NIST SP 800-53 R4 SI-4(2)

NIST SP 800-53 R4 SI-4(3)

NIST SP 800-53 R4 SI-4(4)

NIST SP 800-53 R4 SI-4(5)

NIST SP 800-53 R4 SI-7(2)

NRS 603A.215.1

PCI DSS v3.2 10.6

PCI DSS v3.2 10.6.1

PCI DSS v3.2 10.6.2

PCI DSS v3.2 10.6.3

PCI DSS v3.2 11.5

PMI DSP Framework DE-3

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PMI DSP Framework PR.DS-5

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization monitors the use and attempted use of removable media in the organization's information systems.

The organization monitors all traffic leaving the organization (e.g., through the use of a proxy server as required in 01.o) to detect any unauthorized use of encryption, terminate the connection and take corrective action, (e.g., discipline the responsible party IAW 02.f, remediate the infected system).

The organization treats enterprise access from VLANs with BYOD systems or other untrusted devices (e.g., legacy medical devices) as untrusted, and filters and audits this access accordingly.

The organization profiles each user's typical account usage by determining normal time-of-day access and access duration, and generates reports that indicate users who have logged in during unusual hours or have exceeded their normal login duration, which includes flagging the use of the user's credentials from a computer other than computers on which the user generally works.

Network boundary devices, including firewalls, network-based IPS, and inbound and outbound proxies, are configured to verbosely log all traffic (both allowed and blocked) arriving at the device, which at a minimum shall include the full packet header information and payload of the traffic destined for or passing through the network perimeter.

The organization employs automated tools to continuously monitor workstations, servers, and mobile devices with anti-virus, anti-spyware, personal firewalls, and host-based IPS functionality. All malware detection events should be sent to enterprise anti-malware administration tools and event log servers.

To help identify covert channels exfiltrating data through a firewall, the organization configures the built-in firewall session tracking mechanisms included in many commercial firewalls to identify TCP sessions that last an unusually long time for the given organization and firewall device, alerting personnel about the source and destination addresses associated with these long sessions.

The organization uses network-based DLP solutions to monitor and control the flow of data within the network. Any anomalies that exceed the normal traffic patterns are noted and appropriate action is taken to address them. The network-based DLP solutions are also used to monitor for sensitive information (e.g., personally identifiable information), keywords, and other document characteristics to discover unauthorized attempts to exfiltrate data across network boundaries and block such transfers while alerting information security personnel.

The organization uses host-based data loss prevention (DLP) to enforce ACLs even when data is copied off a server.

The organization controls and monitors any user or system accounts used to perform penetration testing to make sure they are only being used for legitimate purposes, and are removed or restored to normal function after testing is over.

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**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall interconnect and configure individual intrusion detection tools into a system-wide intrusion detection system (IDS) using common protocols. The organization employs automated tools to integrate intrusion detection tools into access control and flow control mechanisms for rapid response to attacks by enabling reconfiguration of these mechanisms in support of attack isolation and elimination.

The organization shall:

1. monitor events on the information system in accordance with the current Risk Management Handbook (RMH), Volume II, Procedure 7.2, Incident Handling, and detect information system attacks;
2. heighten the level of information system monitoring activity whenever there is an indication of increased risk to CMS operations and assets, individuals, other organizations, or the Nation based on law enforcement information, intelligence information, or other credible sources of information.

The organization monitors physical access to the information system, in addition to the physical access monitoring of the facility, at defined physical spaces (defined in the applicable security plan) containing a concentration of information system components (e.g., server rooms, media storage areas, data and communications centers, etc.).

The organization:

1. Monitors information system accounts for atypical use; and
2. Reports atypical usage of information system accounts to defined personnel or roles (defined in the applicable security plan), and if necessary, incident response team.

The organization integrates analysis of audit records with analysis of (one-or-more, defined in the applicable security plan): vulnerability scanning information; performance data; information system monitoring information; and/or other defined data/information (defined in the applicable security plan) collected from other sources, to further enhance the ability to identify inappropriate or unusual activity.

The organization correlates information from audit records with information obtained from monitoring physical access to further enhance the ability to identify suspicious, inappropriate, unusual, or malevolent activity.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization monitors information system accounts, including privileged accounts for atypical use and reports atypical usage to defined personnel or roles.

The organization reviews audit records at least once every seven (7) days for unusual, unexpected, or suspicious behavior.

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The information system notifies designated organization officials of detected suspicious events and take necessary actions to address suspicious events.

Coordination between service provider and consumer is documented and accepted by the Joint Authorization Board (JAB) and Authorizing Official (AO). In multi-tenant environments, capability and means for providing review, analysis, and reporting to consumer for data pertaining to consumer is documented.

The organization interconnects and configures individual intrusion detection tools into a system-wide intrusion detection system (IDS).

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

All requests for return information, including receipt and/or disposal of returns or return information, shall be maintained in a log.

Report findings from the review and analysis of information system audit records according to the agency incident response policy. If the finding involves a potential unauthorized disclosure of FTI, the appropriate special agent-in-charge, Treasury Inspector General for Tax Administration (TIGTA), and the IRS Office of Safeguards must be contacted, as described in Section 10.0, Reporting Improper Inspections or Disclosures.

Intrusion-detection software shall be installed and maintained to monitor networks for any unauthorized attempt to access tax data in a data warehouse.

The organization must employ automated mechanisms to alert security personnel of inappropriate or unusual activities with security implications, and implement host-based monitoring mechanisms (e.g., Host intrusion prevention system (HIPS)) on information systems that receive, process, store, or transmit FTI.

The information system must notify designated agency officials of detected suspicious events and take necessary actions to address suspicious events.

The agency shall ensure that audit reports are created and reviewed for data warehousing-related access attempts. If a query is submitted, the audit log must identify the actual query made, the originator of the query, and relevant time and stamp information.

A security administrator shall periodically collect and review audit logs from Multifunction Devices (MFDs) and print spoolers.

The organization reviews the audit logs (trails) of SAN components on a regular basis to track access to FTI in the SAN environment.

To use a virtual environment that receives, processes, stores, or transmits FTI, the agency must ensure virtualization providers must be able to monitor for threats and other activity that is occurring within the virtual environment - this includes being able to monitor the movement of FTI into and out of the virtual environment.

To use a VoIP network that provides FTI to a customer, the agency must be able to track and audit all FTI-applicable conversations and access.

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To use FTI in an 802.11 WLAN, the agency must deploy wireless intrusion detection to monitor for unauthorized access.

**Level HIX Implementation Requirements Level HIX Implementation:**

Review network traffic, bandwidth utilization rates, alert notifications, and border defense devices to determine anomalies on demand but no less than once within a twenty-four (24) hour period. Generate alerts for technical personnel review and assessment.

Use automated utilities to review audit records at least once every seven (7) days for unusual, unexpected, or suspicious behavior.

Inspect administrator groups on demand but at least once every fourteen (14)

days to ensure unauthorized administrator accounts have not been created.

The organization complies with HHS privacy oversight monitoring and auditing policies and procedures.

For service providers, the organization reviews and analyzes information system audit records at least weekly for indications of inappropriate or unusual activity, and reports findings to designated organizational officials.

The organization interconnects and configures individual intrusion detection tools into a system-wide intrusion detection system (IDS).

**Level PCI Implementation Requirements Level PCI Implementation:**

The organization shall review, at least daily, the logs of all system components that store, process, or transmit cardholder data (CHD) and/or sensitive authentication data (SAD), or that could impact the security of CHD and/or SAD.

When being assessed as a service provider, the organization implements a process for the timely detection and reporting of failures of critical security control systems including, but not limited to, failure of: (i) firewalls (ii) IDS/IPS (iii) file integrity monitoring (iv) anti-virus (v) physical access controls (vi) logical access controls (vii) audit logging mechanisms (viii) segmentation controls (if used).

When being assessed as a service provider, the organization responds to failures of any critical security controls in a timely manner. Processes for responding to failures in security controls must include: (i) restoring security functions; (ii) identifying and documenting the duration (date and time, start to end) of the security failure; (iii) identifying and documenting cause(s) of failure, including root cause, and documenting remediation required to address root cause (iv) identifying and addressing any security issues that arose during the failure (v) performing a risk assessment to determine whether further actions are required as a result of the security failure; (vi) implementing controls to prevent cause of failure from reoccurring; and (vii) resuming monitoring of security controls.

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**Control Reference: 09.ac Protection of Log Information**

|  |  |
| --- | --- |
| **Control Specification:** | Logging systems and log information shall be protected against tampering and |
|  |
|  | unauthorized access. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Access to system audit tools and audit trails shall be safeguarded from |
|  |
|  | unauthorized access and use to prevent misuse or compromise of logs. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC5.1 |
| **Mapping:** | CMSRs 2013v2 AU-9 (HIGH) |
|  |
|  | FedRAMP AU-9 |
|  | FFIEC IS v2016 A.6.21(b) |
|  | FFIEC IS v2016 A.6.35(b) |
|  | IRS Pub 1075 v2014 9.3.3.10 |
|  | ISO/IEC 27002:2005 10.10.3 |
|  | ISO/IEC 27002:2013 12.4.2 |
|  | ISO/IEC 27002:2013 12.4.3 |
|  | MARS-E v2 AU-9 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST SP 800-53 R4 AU-9 |
|  | PMI DSP Framework DE-2 |
|  |  |

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Number of Interfaces: 25 to 75 |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  |  | Number of users of the system: 500 to 5,500 |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |

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**Level 2 Implementation:**

Level 1 plus:

Access to audit tools and audit trails shall be limited to those with a job-related need. Authorized and unauthorized access attempts to the audit system and audit trails shall be logged and protected from modification.

Controls shall protect against unauthorized changes and operational problems with the logging system(s) including:

1. promptly back up audit trail files to a centralized log server or media that is difficult to alter;
2. alterations to the message types that are recorded (e.g., write-once media); and
3. log files being edited or deleted.

The organization authorizes access to management of audit functionality to a specific subset of privileged users defined by the organization.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AU-9 (HIGH) |
| **Mapping:** | CMSRs 2013v2 AU-9(2) (HIGH) |
|  |
|  | CMSRs 2013v2 AU-9(3) (HIGH) |
|  | CMSRs 2013v2 AU-9(4) (HIGH) |
|  | COBIT 5 DSS05.07 |
|  | FedRAMP AU-9 |
|  | FedRAMP AU-9(4) |
|  | FFIEC IS v2016 A.6.21(b) |
|  | FFIEC IS v2016 A.6.35(b) |
|  | IRS Pub 1075 v2014 9.3.3.10 |
|  | IRS Pub 1075 v2014 9.3.3.13 |
|  | MARS-E v2 AC-17(2) |
|  | MARS-E v2 AU-9 |
|  | NIST Cybersecurity Framework PR.DS-6 |
|  | NIST Cybersecurity Framework PR.PT-1 |
|  | NIST SP 800-53 R4 AU-9 |
|  | NIST SP 800-53 R4 AU-9(1) |
|  | NIST SP 800-53 R4 AU-9(2) |
|  | NIST SP 800-53 R4 AU-9(3) |
|  | NIST SP 800-53 R4 AU-9(4) |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 10.2.3 |
|  | PCI DSS v3.2 10.5 |
|  | PCI DSS v3.2 10.5.1 |
|  | PCI DSS v3.2 10.5.2 |
|  | PCI DSS v3.2 10.5.3 |

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PMI DSP Framework DE-2

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 3** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | The organization shall implement file-integrity monitoring or change-detection |
|  | software on logs to ensure that existing log data cannot be changed without |
|  | generating alerts (although new data being added should not cause an alert), and |
|  | respond to any alerts generated. |
|  | The information system: |
|  | 1. Alerts defined personnel or roles (defined in the applicable security plan) |
|  | in the event of an audit processing failure; and |
|  | 2. Takes the following additional actions in response to an audit failure: |
|  | i. Shutdown the information system, |
|  | ii. Stop generating audit records, or |
|  | iii. Overwrite the oldest records, in the case that storage media is |
|  | unavailable. |
|  | Write logs for external-facing technologies (wireless, firewalls, DNS, mail) onto a |
|  | secure, centralized log server or media device on the internal LAN. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 6.3 |
| **Mapping:** | CMSRs 2013v2 AU-5 (HIGH) |
|  |
|  | CMSRs 2013v2 AU-5(1) (HIGH) |
|  | CMSRs 2013v2 AU-5(2) (HIGH) |
|  | COBIT 5 DSS05.07 |
|  | FedRAMP AU-5 |
|  | IRS Pub 1075 v2014 9.3.3.6 |
|  | MARS-E v2 AU-5 |
|  | NIST Cybersecurity Framework DE.CM-1 |
|  | NIST Cybersecurity Framework PR.DS-6 |
|  | NIST Cybersecurity Framework PR.PT-1 |
|  | NIST Cybersecurity Framework RS.AN-1 |
|  |  |

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NIST SP 800-53 R4 AU-5

NIST SP 800-53 R4 AU-5(1)

NIST SP 800-53 R4 AU-5(2)

NIST SP 800-53 R4 AU-5(4)

NIST SP 800-53 R4 SI-4

NRS 603A.215.1

PCI DSS v3.2 10.5.4

PCI DSS v3.2 10.5.5

PCI DSS v3.2 11.5

PCI DSS v3.2 11.5.1

**Level CIS Implementation Requirements Level CIS Implementation:**

Audit logs are archived and digitally signed on a periodic basis.

**Level CMS Implementation Requirements Level CMS Implementation:**

The information system shall provide a warning to defined personnel, roles, and/or locations (defined in the applicable security plan), within a defined time period (defined in the applicable security plan), when allocated audit record storage volume reaches eighty percent (80%) of repository maximum audit record storage capacity.

The information system provides an alert in real time to defined personnel, roles, and/or locations (defined in the applicable security plan) when the following audit failure events occur:

1. Record log is full;
2. Authentication logging failure; and
3. Encryption logging failure.

The information system backs up audit records at least weekly onto a physically different system or system component than the system or component being audited.

The information system implements cryptographic mechanisms to protect the integrity of audit information and audit tools.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The information system backs up audit records at least weekly onto a physically different system or system component than the system or component being

audited.

**Level FTI Custodians Implementation Requirements**

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**Level FTI Custodians Implementation:**

The information system must monitor system operational status using operating system or system audit logs and verify functions and performance of the system. Logs shall be able to identify where system process failures have taken place and provide information relative to corrective actions to be taken by the system administrator.

The information system does not shut down the system, stop the generation of audit reports or overwrite the oldest records in the event of an audit failure or audit storage capacity issue.

The agency must employ mechanisms for coordinating the access and protection of audit information among external organizations when audit information is transmitted across agency boundaries. For additional requirements, see IRS Pub 1075 v2014 9.4.1 for cloud computing environments and 5.4 for consolidated data centers.

**Level HIX Implementation Requirements Level HIX Implementation:**

The information system shall provide a warning to defined personnel, roles, and/or locations (defined in the applicable security plan), within a defined time period (defined in the applicable security plan), when allocated audit record storage volume reaches eighty percent (80%); of repository maximum audit record storage capacity.

**Control Reference: 09.ad Administrator and Operator Logs**

**Control Specification:**

|  |  |
| --- | --- |
|  | System administrator and system operator activities shall be logged and regularly |
|  | reviewed. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; Monitoring |

**Level 1 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to Texas Health and Safety Code |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |

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**Level 1 Implementation:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Organizations shall ensure that proper logging is enabled in order to audit |
|  |  |  | administrator activities. |
|  |  |  | System administrator and operator logs shall be reviewed on a regular basis. |
|  |  |  |  |
|  | **Level 1** |  | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** |  | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Mapping:** |  | AICPA CC5.1 |
|  |  |  |
|  |  |  | AICPA CC6.1 |
|  |  |  | CMSRs 2013v2 AR-4 (HIGH) |
|  |  |  | CMSRs 2013v2 AU-2 (HIGH) |
|  |  |  | CMSRs 2013v2 AU-6 (HIGH) |
|  |  |  | CSA CCM v3.0.1 IVS-01 |
|  |  |  | FedRAMP AU-12 |
|  |  |  | FedRAMP AU-2 |
|  |  |  | FedRAMP AU-6 |
|  |  |  | FFIEC IS v2016 A.6.35 |
|  |  |  | FFIEC IS v2016 A.6.35(c) |
|  |  |  | HIPAA § 164.308(a)(5)(ii)(C) |
|  |  |  | HIPAA § 164.312(b) |
|  |  |  | IRS Pub 1075 v2014 9.3.3.3 |
|  |  |  | IRS Pub 1075 v2014 9.3.3.7 |
|  |  |  | ISO 27799-2008 7.7.10.5 |
|  |  |  | ISO/IEC 27002:2005 10.10.1 |
|  |  |  | ISO/IEC 27002:2005 10.10.4 |
|  |  |  | ISO/IEC 27002:2013A 12.4.1 |
|  |  |  | ISO/IEC 27002:2013A 12.4.3 |
|  |  |  | MARS-E v2 AR-4 |
|  |  |  | MARS-E v2 AU-2 |
|  |  |  | MARS-E v2 AU-6 |
|  |  |  | NIST Cybersecurity Framework PR.PT-1 |
|  |  |  | NIST SP 800-53 R4 AR-4 |
|  |  |  | NIST SP 800-53 R4 AU-12 |
|  |  |  | NIST SP 800-53 R4 AU-2 |
|  |  |  | NIST SP 800-53 R4 AU-6 |
|  |  |  | NRS 603A.215.1 |
|  |  |  | PCI DSS v3.2 10.2.2 |
|  |  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |  |  |
|  |  | **Level 2 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 2** |  |  |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Number of Interfaces: 25 to 75 |
| **System Factors:** | Number of transactions per day: Greater than 85,000 |
|  | Number of users of the system: Greater than 5,500 |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | An intrusion detection system managed outside of the control of system and |
|  | network administrators shall be used to monitor system and network |
|  | administration activities for compliance. |
|  |  |
| **Level 2** | • FFIEC IS v2016 A.6.35(c) |
| **Control Standard** |  |
| **Mapping:** |  |
|  |  |

|  |  |
| --- | --- |
| **Control Reference: 09.ae Fault Logging** | |
|  |  |
| **Control Specification:** | Faults shall be logged, analyzed, and appropriate remediation action taken. |
|  |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Audit and Accountability; Documentation and Records; Incident Response |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | Faults reported by users or by system programs related to problems with |
|  |
|  | information processing or communications systems shall be logged. |
|  | There shall be clear rules for handling reported faults including: |
|  | 1. review of fault logs by authorized personnel in an expeditious manner to |
|  | ensure that faults have been satisfactorily resolved; and |
|  | 2. review of corrective measures to ensure that controls have not been |
|  | compromised, and that the action taken is fully authorized. |
|  | Error logging shall be enabled if this system function is available. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC6.1 |
|  |
|  |  |

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CMSRs 2013v2 AU-2 (HIGH)

COBIT 5 DSS05.07

CSA CCM v3.0.1 IVS-01

FedRAMP AU-12

FedRAMP AU-2

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(5)(ii)(C)

HIPAA § 164.312(b)

IRS Pub 1075 v2014 9.3.3.3

ISO 27799-2008 7.7.10.6

ISO/IEC 27002:2005 10.10.5

ISO/IEC 27002:2013 12.4.1

MARS-E v2 AU-2

NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 AU-2

NIST SP 800-53 R4 AU-6

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Number of Interfaces: 25 to 75 |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  |  | Number of users of the system: 500 to 5,500 |
|  |  |  |
|  | **Level 2** | Subject to CA Civil Code § 1798.81.5 |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The information system shall: |
|  |  | 1. identify potentially security-relevant error conditions; |
|  |  | 2. generate error messages that provide information necessary for corrective |
|  |  | actions without revealing information that could be exploited by |
|  |  | adversaries in error logs and administrative messages that could be |
|  |  | exploited by adversaries; and |
|  |  | 3. reveal error messages only to authorized personnel. |
|  |  | The information system shall provide automated real-time alerts when faults or |
|  |  | errors occur. Covered information shall not be listed in the logs or associated |
|  |  | administrative messages. |
|  |  |  |

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**Level 2**

**Control Standard**

**Mapping:**

1 TAC § 390.2(a)(4)(A)(xi)

CIS CSC v6 18.5

CMSRs 2013v2 AU-5(2) (HIGH)

CMSRs 2013v2 SI-11 (HIGH)

COBIT 5 DSS05.07

FedRAMP AU-12

FedRAMP SI-11

HIPAA § 164.308(a)(5)(ii)(C)

IRS Pub 1075 v2014 9.3.17.8

IRS Pub 1075 v2014 9.3.3.6

MARS-E v2 SI-11

NIST Cybersecurity Framework DE.DP-4

NIST Cybersecurity Framework PR.PT-1

NIST SP 800-53 R4 AU-12

NIST SP 800-53 R4 AU-5(2)

NIST SP 800-53 R4 SI-11

**Control Reference: 09.af Clock Synchronization**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | The clocks of all relevant information processing systems within the organization |
|  |  |
|  |  | or security domain shall be synchronized with an agreed accurate time source to |
|  |  | support tracing and reconstitution of activity timelines. |
|  |  |  |
|  | **Factor Type:** | System |
|  |  |  |
|  | **Topics:** | Audit and Accountability; Requirements (Legal and Contractual) |
|  |  |  |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall synchronize all system clocks and times where a computer |
|  |  |
|  |  | or communications device has the capability to operate a real-time clock. This |
|  |  | clock shall be set to an agreed standard received from industry-accepted time |
|  |  | sources, either Coordinated Universal Time (UTC) or International Atomic Time |
|  |  | and shall be accurate to within thirty (30) seconds. |
|  |  | The correct interpretation of the date/time format shall be used to ensure that the |
|  |  | timestamp reflects the real date/time (e.g., daylight savings). |
|  |  |  |

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|  |  |
| --- | --- |
|  | The information system's internal information system clocks shall synchronize |
|  | daily and at system boot to one or more authoritative sources (e.g., NIST Internet |
|  | Time Servers or the U.S. Naval Observatory Stratum-1 NTP servers) when the |
|  | time difference is greater than thirty (30) seconds. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC6.1 |
| **Mapping:** | CMSRs 2013v2 AU-8 (HIGH) |
|  |
|  | CMSRs 2013v2 AU-8(1) (HIGH) |
|  | CSA CCM v3.0.1 IVS-03 |
|  | FedRAMP AU-8 |
|  | FedRAMP AU-8(1) |
|  | FedRAMP AU-8(1) |
|  | IRS Pub 1075 v2014 9.3.3.9 |
|  | ISO 27799-2008 7.7.10.7 |
|  | ISO/IEC 27002:2005 10.10.6 |
|  | ISO/IEC 27002:2013 12.4.4 |
|  | MARS-E v2 AU-8 |
|  | MARS-E v2 AU-8(1) |
|  | NIST Cybersecurity Framework PR.PT-1 |
|  | NIST SP 800-53 R4 AU-8 |
|  | NIST SP 800-53 R4 AU-8(1) |
|  | NRS 603A.215.1 |
|  | PCI DSS v3.2 10.4 |
|  | PCI DSS v3.2 10.4.1 |
|  | PCI DSS v3.2 10.4.3 |
|  |  |
| **Level 2 Implementation Requirements** | |
|  |  |
| **Level 2** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Number of Interfaces: 25 to 75 |
| **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  | Number of users of the system: 500 to 5,500 |
|  |  |
| **Level 2** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to PCI Compliance |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Time data shall be protected according to the organization's access controls (see |
|  | 01.c) and logging controls (see 09.ad). |
|  |  |
| **Level 2** | CIS CSC v6 6.1 |
| **Control Standard** | NIST Cybersecurity Framework PR.PT-1 |
| **Mapping:** | NRS 603A.215.1 |
|  |
|  |  |

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PCI DSS v3.2 10.4.2

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization uses at least two (2) synchronized time sources from which all servers and network equipment retrieve time information on a regular basis so that timestamps in logs are consistent.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The information system compares internal clocks at least hourly with the NIST Internet time service (see https://www.nist.gov/pml/time-and-frequency-division/services/internet-time-service-its for more information).

The service provider selects primary and secondary time servers used by the NIST Internet time service. The secondary server is selected from a different geographic region than the primary server. Further, the service provider synchronizes the system clocks of network computers that run operating systems other than Windows to the Windows Server Domain Controller emulator or to the same time source for that server.

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**Control Category: 10.0 - Information Systems Acquisition, Development, and Maintenance**

**Objective Name: 10.01 Security Requirements of Information Systems**

|  |  |
| --- | --- |
| **Control** | To ensure that security is an integral part of information systems. |
| **Objective:** |

**Control Reference: 10.a Security Requirements Analysis and Specification**

**Control Specification:**

|  |  |
| --- | --- |
|  | Statements of business requirements for new information systems (developed or |
|  | purchased), or enhancements to existing information systems shall specify the |
|  | requirements for security controls. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Documentation and Records; Requirements (Legal and Contractual); Risk |
|  | Management and Assessments; Services and Acquisitions |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

The organization shall develop, disseminate, and review/update annually:

1. a formal, documented system and information integrity policy that addresses purpose, scope, roles, responsibilities, management commitment, coordination among organizational entities, and compliance; and
2. formal, documented procedures to facilitate the implementation of the system and information integrity policy and associated system and information integrity controls.

Specifications for the security control requirements shall include that security controls be incorporated in the information system, supplemented by manual controls as needed. These considerations shall be applied when evaluating software packages, developed or purchased.

Security requirements and controls shall reflect the business value of the information assets involved (see 7.d), and the potential business damage that

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|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | might result from a failure or absence of security. |
|  |  |  | For purchased commercial product, a formal acquisition process shall be followed. |
|  |  |  | Contracts with the supplier shall include the identified security requirements. |
|  |  |  | Where the security functionality in a proposed product does not satisfy the |
|  |  |  | specified requirement, then the risk introduced and associated controls shall be |
|  |  |  | reconsidered prior to purchasing the product. Where additional functionality is |
|  |  |  | supplied, and causes a security risk, this shall be disabled or mitigated through |
|  |  |  | application of additional controls. |
|  |  |  | The organization shall require developers of information systems, components, |
|  |  |  | and services to identify (document) early in the system development life cycle, the |
|  |  |  | functions ports, protocols, and services intended for organizational use. |
|  |  |  |  |
|  | **Level 1** |  | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** |  | AICPA C1.1 |
|  | **Mapping:** |  | AICPA CC7.1 |
|  |  |  |
|  |  |  | AICPA CC7.3 |
|  |  |  | CMSRs 2013v2 SA-4(9) (HIGH) |
|  |  |  | CMSRs 2013v2 SA-9(2) (HIGH) |
|  |  |  | CMSRs 2013v2 SI-1 (HIGH) |
|  |  |  | CRR V2016 CM:G2.Q2 |
|  |  |  | CRR V2016 CM:G2.Q3 |
|  |  |  | CRR V2016 CM:G2.Q4 |
|  |  |  | FedRAMP SA-4(9) |
|  |  |  | FedRAMP SA-9(2) |
|  |  |  | FedRAMP SI-1 |
|  |  |  | GDPR Article 25(1) |
|  |  |  | GDPR Article 32(1)(b) |
|  |  |  | GDPR Article 32(2) |
|  |  |  | HIPAA § 164.308(a)(1)(ii)(A) |
|  |  |  | HIPAA § 164.308(a)(1)(ii)(B) |
|  |  |  | HIPAA § 164.314(a)(2)(i) |
|  |  |  | ISO/IEC 27002:2005 12.1.1 |
|  |  |  | ISO/IEC 27002:2013 14.1.1 |
|  |  |  | MARS-E v2 SA-4(9) |
|  |  |  | MARS-E v2 SA-9(2) |
|  |  |  | MARS-E v2 SI-1 |
|  |  |  | NIST Cybersecurity Framework PR.IP-2 |
|  |  |  | NIST SP 800-53 R4 SA-4(9) |
|  |  |  | NIST SP 800-53 R4 SA-9(2) |
|  |  |  | NIST SP 800-53 R4 SI-1 |
|  |  |  |  |
|  |  | **Level 2 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 2** |  | Bed: Between 200 and 750 Beds |

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|  |  |  |
| --- | --- | --- |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the EU GDPR |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Information security and privacy shall be addressed in all phases of the project |
|  |  | management methodology. Organizations shall establish and appropriately |
|  |  | protect a secure development environment for system development and |
|  |  | integration efforts that cover the entire system development life cycle. |
|  |  | The organization shall apply information system security engineering principles in |
|  |  | the specification, design, development, implementation, and modification of |
|  |  | security requirements and controls in developed and acquired information |
|  |  | systems. Organizations shall include business requirements for the availability of |
|  |  | information systems when specifying security and privacy requirements. Where |
|  |  | availability cannot be guaranteed using existing architectures, redundant |
|  |  | components or architectures should be considered along with the risks associated |
|  |  | with implementing such redundancies. |
|  |  | Specifications for the security and privacy control requirements shall include that |
|  |  | automated controls be incorporated in the information system, supplemented by |
|  |  | manual controls as needed. This shall be evidenced in a formal System |
|  |  | Development Life Cycle (SDLC), which shall cover request initiation, requirements |
|  |  | definition, analysis, communication, conflict detection and resolution, and |
|  |  | evolution of requirements. |
|  |  | The organization's security risk management process shall be integrated into all |
|  |  | SDLC activities. System requirements for information security and processes for |
|  |  | implementing security shall be integrated in the requirements definition phase. |
|  |  | Also in the SDLC initial planning or requirement stage, Data Classification and |
|  |  | risk of the assets shall be assigned to ensure appropriate controls will be |
|  |  | considered and the correct project team members are involved. The risk and |
|  |  | classification activities shall require sign-off by management. |
|  |  | Organizations developing software or systems shall perform thorough testing and |
|  |  | verification during the development process. Independent acceptance testing |
|  |  | should then be undertaken (both for in-house and for outsourced developments) |

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|  |  |
| --- | --- |
|  | to ensure the system works as expected and only as expected. The extent of |
|  | testing should be in proportion to the importance and nature of the system. |
|  | Information security roles and responsibilities are defined and documented |
|  | throughout the system development life cycle. |
|  | Commercial products sought to store and/or process covered information shall |
|  | undergo a security assessment and/or security certification by a qualified |
|  | assessor prior to implementation. (Not applicable to operating system software). |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CP-9(6) (HIGH) |
| **Mapping:** | CMSRs 2013v2 PM-7 (HIGH) |
|  |
|  | CMSRs 2013v2 SA-3 (HIGH) |
|  | CMSRs 2013v2 SA-4 (HIGH) |
|  | CMSRs 2013v2 SA-8 (HIGH) |
|  | CMSRs 2013v2 SC-5 (HIGH) |
|  | CRR V2016 CCM:G1.Q6 |
|  | CSA CCM v3.0.1 GRM-01 |
|  | FedRAMP SA-3 |
|  | FedRAMP SA-4 |
|  | FedRAMP SA-8 |
|  | FedRAMP SC-5 |
|  | FFIEC IS v2016 A.6.27 |
|  | GDPR Article 25(1) |
|  | GDPR Article 35(1) |
|  | HIPAA § 164.308(a)(1)(ii)(A) |
|  | HIPAA § 164.308(a)(1)(ii)(B) |
|  | HIPAA § 164.314(a)(2)(i) |
|  | HITRUST SME |
|  | IRS Pub 1075 v2014 9.3.15.3 |
|  | IRS Pub 1075 v2014 9.3.15.4 |
|  | IRS Pub 1075 v2014 9.3.15.6 |
|  | IRS Pub 1075 v2014 9.3.16.4 |
|  | ISO 27799-2008 7.9.1 |
|  | ISO/IEC 27001:2013 6.1.5 |
|  | ISO/IEC 27002:2005 12.1.1 |
|  | ISO/IEC 27002:2013 14.1.1 |
|  | ISO/IEC 27002:2013 14.2.1 |
|  | ISO/IEC 27002:2013 14.2.5 |
|  | ISO/IEC 27002:2013 14.2.6 |
|  | ISO/IEC 27002:2013 14.2.8 |
|  | ISO/IEC 27002:2013 17.2.1 |
|  | MARS-E v2 PM-7 |
|  |  |

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MARS-E v2 SA-3

MARS-E v2 SA-4

MARS-E v2 SA-8

MARS-E v2 SC-5

NIST Cybersecurity Framework PR.IP-2

NIST SP 800-53 R4 CP-9(6)

NIST SP 800-53 R4 PM-7

NIST SP 800-53 R4 SA-3

NIST SP 800-53 R4 SA-4

NIST SP 800-53 R4 SA-8

NIST SP 800-53 R4 SC-5

NRS 603A.215.1

PCI DSS v3.2 6.3

PMI DSP Framework PR.IP-1

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization develops enterprise architecture with consideration for |
|  |  | information security and privacy, and the resulting risk to organizational |
|  |  | operations, organizational assets, individuals, and other organizations. |
|  |  | The organization shall: |
|  |  | • Develop an information security architecture for the information system |
|  |  | that: |
|  |  | o Describes the overall philosophy, requirements, and approach to |
|  |  | be taken with regard to protecting the confidentiality, integrity, and |

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availability of organizational information;

1. Describes how the information security architecture is integrated

into, and supports, the enterprise architecture; and

* 1. Describes any information security assumptions about, and dependencies on, external services.
* Reviews and updates (as necessary) the information security and privacy architecture whenever changes are made to the enterprise architecture; and
* Ensures that planned information security and privacy architecture changes are reflected in the security plan and organizational procurements/acquisitions.

The organization shall include security functional, strength and assurance requirements; security-related documentation requirements; and developmental and evaluation-related assurance requirements in information system acquisition contracts based on applicable laws, policies, standards, guidelines and business needs. The organization requires the developer of the information system, system component, or information system service to provide:

* a description of the functional properties of the security and privacy controls to be employed; and
* design and implementation information for the security and privacy controls to be employed that includes: security&#45;and privacy-relevant external system interfaces at sufficient detail to understand the existence, purpose, and use of all such interfaces and high-level design documentation at sufficient detail to prove the security and privacy control implementation.

The organization documents all existing outsourced information services and conducts an organizational assessment of risk prior to the acquisition or outsourcing of information services.

|  |  |
| --- | --- |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AR-7 (HIGH) |
| **Mapping:** | CMSRs 2013v2 PL-8 (HIGH) |
|  |
|  | CMSRs 2013v2 PM-7 (HIGH) |
|  | CMSRs 2013v2 SA-15 (HIGH) |
|  | CMSRs 2013v2 SA-17 (HIGH) |
|  | CMSRs 2013v2 SA-4 (HIGH) |
|  | CMSRs 2013v2 SA-4(1) (HIGH) |
|  | CMSRs 2013v2 SA-4(2) (HIGH) |
|  | CMSRs 2013v2 SA-9(1) (HIGH) |
|  | FedRAMP PE-14 |
|  | FedRAMP SA-4 |
|  | FedRAMP SA-4(1) |
|  | FedRAMP SA-4(2) |
|  | FedRAMP SA-9(1) |
|  | GDPR Article 25(1) |
|  | HIPAA § 164.308(a)(1)(ii)(A) |
|  | HIPAA § 164.308(a)(1)(ii)(B) |

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HIPAA § 164.314(a)(2)(i)

IRS Pub 1075 v2014 9.3.15.4

IRS Pub 1075 v2014 9.4.2 (E.10)

MARS-E v2 AR-7

MARS-E v2 PM-7

MARS-E v2 SA-4

MARS-E v2 SA-4(1)

MARS-E v2 SA-4(2)

MARS-E v2 SA-9(1)

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.IP-2

NIST SP 800-53 R4 AR-7

NIST SP 800-53 R4 PL-8

NIST SP 800-53 R4 PM-7

NIST SP 800-53 R4 SA-15

NIST SP 800-53 R4 SA-17

NIST SP 800-53 R4 SA-4

NIST SP 800-53 R4 SA-4(1)

NIST SP 800-53 R4 SA-4(2)

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall manage the information system using the information security steps of IEEE 12207.0 standard for SDLC, as provided in the CMS eXpedited Life Cycle (XLC) that incorporates information security control considerations.

Each contract and Statement of Work (SOW) that requires development or access to CMS information must include language requiring adherence to CMS security and privacy policies and standards, define security roles and responsibilities, and receive approval from CMS officials.

The organization:

* Requires the developer of the information system, system component, or information system service to follow a documented development process that:

o Explicitly addresses security requirements;

o Identifies the standards and tools used in the development process;

o Documents the specific tool options and tool configurations used in the development process; and

o Documents, manages, and ensures the integrity of changes to the process and/or tools used in development; and

* Reviews the development process, standards, tools, and tool options/configurations within every three hundred sixty-five (365) days to determine if the process, standards, tools, and tool options/configurations selected and employed can satisfy all applicable System Acquisition (SA)

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and Configuration Management (CM) security controls.

The organization requires the developer of the information system, system component, or information system service to produce a design specification and security architecture that:

* Is consistent with and supportive of the organization's security architecture which is established within, and is an integrated part of, the organization's enterprise architecture;
* Accurately and completely describes the required security functionality, and the allocation of security controls, among physical and logical components; and
* Expresses how individual security functions, mechanisms, and services work together to provide required security capabilities and a unified approach to protection.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization reviews and updates the information security architecture every three-hundred sixty five (365) days or when a significant change occurs to the enterprise architecture, and ensures that planned information security architecture changes are reflected in the security plan and organizational procurements and acquisitions.

The organization employs only information technology products on the FIPS 201-approved products list for Personal Identity Verification (PIV) capability implemented within organizational information systems.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Whenever information systems contain FTI, the agency shall include security requirements (e.g., the capacity to block information to contractors when they are not authorized to access FTI) and/or security specifications, either explicitly or by reference, in information system acquisition contracts based on an assessment of risk. The contract for the acquisition must contain IRS Pub 1075 Exhibit 7 (E.7) language.

Agencies using a consolidated data center must implement appropriate controls to ensure the protection of FTI, including a Service Level Agreement (SLA) between the agency authorized to receive FTI and the data center.

The agency shall document online and architectural adjustments that occur during the life cycle of a data warehouse and ensure that FTI is always secured from unauthorized access or disclosure.

For critical online resources, redundant systems in a data warehouse shall be employed with automatic failover capability.

**Level HIX Implementation Requirements**

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**Level HIX Implementation:**

Each contract and Statement of Work (SOW) that contain personally identifiable information (PII) must include language requiring adherence security and privacy policies and standards set by the organization consistent with 45 CFR 155.260(b), define security roles and responsibilities, and receive approval from the system owner.

Acquisition contracts include a requirement that providers of defined external information systems identify the location of information systems that receive, process, store, or transmit information.

**Objective Name: 10.02 Correct Processing in Applications**

**Control**

**Objective:** To ensure the prevention of errors, loss, unauthorized modification or misuse of information in applications, controls shall be designed into applications, including

user developed applications to ensure correct proces

**Control Reference: 10.b Input Data Validation**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Data input to applications and databases shall be validated to ensure that this |
|  |  |
|  |  | data is correct and appropriate. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | System |
|  |  |  |
|  | **Topics:** | Policies and Procedures; Risk Management and Assessments |
|  |  |  |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** | Subject to FTC Red Flags Rule |
|  |  | Subject to Joint Commission Accreditation |
|  |  |  |
|  | **Level 1 Implementation:** | For organizations doing system development (e.g., applications, databases), |
|  |  |
|  |  | checks shall be applied to the input of business transactions, standing data, and |
|  |  | parameter tables - and minimally for covered information. |
|  |  | The organization shall develop applications based on secure coding guidelines to |
|  |  | prevent common coding vulnerabilities in software development processes |
|  |  | including, but not limited to: |
|  |  | • injection flaws, particularly SQL injection. (Validate input to verify user |
|  |  | data cannot modify meaning of commands and queries, utilize |

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|  |  |  |
| --- | --- | --- |
|  |  | parameterized queries, etc.) |
|  | • buffer overflow. (Validate buffer boundaries and truncate input strings.) | |
|  | • insecure cryptographic storage. (Prevent cryptographic flaws.) | |
|  | • | insecure communications. (Properly encrypt all authenticated and |
|  |  | sensitive communications.) |
|  | • improper error handling. (Do not leak information via error messages.) | |
|  | • broken authentication/sessions (Prevent unauthorized individuals from | |
|  |  | compromising legitimate account credentials, keys or session tokens that |
|  |  | would otherwise enable an intruder to assume the identity of an |
|  |  | authorized user). |
|  | For Web applications and application interfaces (internal or external), this also | |
|  | includes but is not limited to: | |
|  | • cross-site scripting (XSS) (Validate all parameters before inclusion, utilize | |
|  |  | context-sensitive escaping, etc.) |
|  | • improper access control, such as insecure direct object references, failure | |
|  |  | to restrict URL access, directory traversal, and failure to restrict user |
|  |  | access functions (Properly authenticate users and sanitize input. Do not |
|  |  | expose internal object references to users.) |
|  | • cross-site request forgery (CSRF). (Do not reply on authorization | |
|  |  | credentials and tokens automatically submitted by browsers.) |
|  | Web-based applications shall be checked for the most current OWASP top 10 | |
|  | input-validation-related vulnerabilities. | |
|  | Alternatively, the inclusion of input validation checks in the testing methodology | |
|  | shall be in place, and performed at least annually. Input validation testing can be | |
|  | manually performed. | |
|  | The following input validation procedures shall be performed: | |
|  | • dual input or other input checks, such as boundary checking or limiting | |
|  |  | fields to specific ranges of input data, to detect the following errors: |
|  | • out-of-range values invalid characters in data fields missing or incomplete | |
|  |  | data |
|  | • exceeding upper and lower data volume limits unauthorized or | |
|  |  | inconsistent control data periodic review of the content of key fields or |
|  |  | data files to confirm their validity and integrity; |
|  | • procedures for responding to validation errors; | |
|  | • procedures for testing the plausibility of the input data; | |
|  | • verifying the identity of an individual opening or updating an account; | |
|  | • defining the responsibilities of all personnel involved in the data input | |
|  |  | process; |
|  | • and creating a log of the activities involved in the data input process (see | |
|  |  | 9.aa). |
|  |  |  |
| **Level 1** |  | 1 TAC § 390.2(a)(3) |
| **Control Standard** |  | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** |  | 23 NYCRR 500.08(a) |
|  |  |
|  |  | AICPA CC5.8 |
|  |  | CIS CSC v6 18.4 |
|  |  |  |

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CMSRs 2013v2 SI-10 (HIGH)

CRR V2016 CM:G2.Q5

CSA CCM v3.0.1 AIS-01

CSA CCM v3.0.1 AIS-03

FedRAMP SI-10

GDPR Article 25(1)

GDPR Article 32(1)(b)

IRS Pub 1075 v2014 9.3.17.7

ISO 27799-2008 7.9.2.2

ISO/IEC 27002:2005 12.2.1

JCAHO IM.04.01.01, EP 1

MARS-E v2 SI-10

NIST Cybersecurity Framework PR.DS-5

NIST Cybersecurity Framework PR.DS-6

NIST SP 800-53 R4 SI-10

PCI DSS v3.2 6.5

PCI DSS v3.2 6.5.1

PCI DSS v3.2 6.5.10

PCI DSS v3.2 6.5.2

PCI DSS v3.2 6.5.3

PCI DSS v3.2 6.5.4

PCI DSS v3.2 6.5.5

PCI DSS v3.2 6.5.6

PCI DSS v3.2 6.5.7

PCI DSS v3.2 6.5.8

PCI DSS v3.2 6.5.9

PMI DSP Framework PR.DS-5

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Internet: Yes |
|  | **System Factors:** | Number of Interfaces: 25 to 75 |
|  |  | Number of transactions per day: Greater than 85,000 |
|  |  | Number of users of the system: Greater than 5,500 |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to Banking Requirements |
|  |  | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Applications that store, process or transmit covered information shall undergo |
|  | application vulnerability testing at least annually by a qualified party, with an |
|  | emphasis on input validation controls. Application input validation testing shall be |
|  | automated through use of tools or other non-manual methods. |
|  | Additionally, the organization shall: |
|  | 1. develop and document system and information integrity policy and |
|  | procedures; |
|  | 2. disseminate the system and information integrity policy and procedures to |
|  | appropriate areas within the organization; |
|  | 3. assign responsible parties within the organization to annually review |
|  | system and information integrity policy and procedures; and |
|  | 4. update the system and information integrity policy and procedures when |
|  | organizational review indicates updates are required. |
|  | The information system shall check the validity of organization-defined information |
|  | inputs for accuracy, completeness, validity, and authenticity as close to the point |
|  | of origin as possible. |
|  | For public-facing Web applications, address new threats and vulnerabilities on an |
|  | ongoing basis and ensure these applications are protected against known attacks |
|  | by either of the following methods: |
|  | • reviewing applications via manual or automated application vulnerability |
|  | security assessment tools or methods, at least annually and after any |
|  | changes; |
|  | • installing an automated technical solution that detects and prevents Web- |
|  | based attacks (e.g., a Web-application firewall) in front of public-facing |
|  | Web applications, to continually check all traffic. |
|  | If a public-facing application is not Web-based, the organization implements a |
|  | network-based firewall specific to the application type. |
|  | If the traffic to the public-facing application is encrypted, the device should either |
|  | sit behind the encryption or be capable of decrypting the traffic prior to analysis. |
|  | For in-house developed software, the organization ensures that explicit error |
|  | checking is performed and documented for all input, including for size, data type, |
|  | and acceptable ranges or formats. |
|  | Procedures, guidelines and standards for the development of applications shall be |
|  | periodically reviewed, assessed and updated as necessary by the appointed |
|  | senior-level information security official of the organization. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 21 CFR Part 11.10(h) |
| **Mapping:** | 23 NYCRR 500.08(a) |
|  |
|  | 23 NYCRR 500.08(b) |
|  | CIS CSC v6 18.2 |
|  |  |

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CIS CSC v6 18.3

CIS CSC v6 18.4

CIS CSC v6 18.7

CIS CSC v6 9.6

CMSRs 2013v2 SI-1 (HIGH)

CMSRs 2013v2 SI-10 (HIGH)

FedRAMP SI-1

FedRAMP SI-10

FFIEC IS v2016 A.6.27(e)

FFIEC IS v2016 A.6.27(g)

FFIEC IS v2016 A.6.28(a)

GDPR Article 25(1)

IRS Pub 1075 v2014 9.3.17.7

IRS Pub 1075 v2014 9.4.2 (E.10)

JCAHO IM.04.01.01, EP 1

MARS-E v2 SI-1

MARS-E v2 SI-10

NIST Cybersecurity Framework DE.CM-8

NIST Cybersecurity Framework PR.DS-5

NIST SP 800-53 R4 SI-1

NIST SP 800-53 R4 SI-10

NRS 603A.215.1

PCI DSS v3.2 6.6

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization tests all systems that are part of critical business processes for proper configuration and application-level vulnerabilities prior to deployment.

The organization places application firewalls in front of its critical servers to verify and validate the traffic going to the server. Any unauthorized services or traffic should be blocked and an alert generated.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Web-enabled application software in a data warehouse shall:

* + Prohibit generic meta-characters in input data; procedures to prevent structured query language (SQL) injection;
  + Protect any variable used in scripts to prevent direct OS command attacks;
* Arrange to have all comments removed for any code passed to the browser;
* Prevent users from seeing any debugging information on the client; and
* Undergo a check before production deployment to ensure that all sample,

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test, and unused files have been removed from the production system.

**Control Reference: 10.c Control of Internal Processing**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Validation checks shall be incorporated into applications to detect any corruption |
|  |  | of information through processing errors or deliberate acts. |
|  |  |  |
|  | **Factor Type:** | System |
|  |  |  |
|  | **Topics:** | Documentation and Records; Risk Management and Assessments |
|  |  |  |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** | Subject to Joint Commission Accreditation |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | For organizations doing system development (e.g., applications, databases), the |
|  |  |
|  |  | design and implementation of applications shall ensure that the risks of |
|  |  | processing failures leading to a loss of integrity are minimized. |
|  |  | Data integrity controls shall address: |
|  |  | • the use of add, modify, and delete functions to implement changes to |
|  |  | data; |
|  |  | • the procedures to prevent programs running in the wrong order or |
|  |  | running after failure of prior processing (see 9.a); |
|  |  | • the use of appropriate programs to recover from failures to ensure the |
|  |  | correct processing of data; and |
|  |  | • protection against attacks using buffer overruns/overflows. |
|  |  | A checklist for validation checking shall be prepared, activities documented, and |
|  |  | the results shall be kept secure. The checks to be incorporated include the |
|  |  | following and can be manual: |
|  |  | • session or batch controls, to reconcile data file balances after |
|  |  | transaction updates; |
|  |  | • balancing controls, to check opening balances against previous |
|  |  | closing balances, namely: |
|  |  | • run-to-run controls file update totals program-to-program controls |
|  |  | validation of system-generated input data (see 10.b); |
|  |  | • checks on the integrity, authenticity or any other security feature of |
|  |  | data or software downloaded, or uploaded, between central and |
|  |  | remote computers; |
|  |  | • hash totals of records and files; |
|  |  | • checks to ensure that application programs are run at the correct time; |
|  |  | • checks to ensure that programs are run in the correct order and |
|  |  | terminate in case of a failure, and that further processing is halted |
|  |  | until the problem is resolved; |

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|  |  |
| --- | --- |
|  | • and creating an automated log of the activities involved in the |
|  | processing (see 9.aa). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 21 CFR Part 11.10(f) |
| **Mapping:** | AICPA C1.2 |
|  |
|  | AICPA PI1.1 |
|  | AICPA PI1.2 |
|  | AICPA PI1.3 |
|  | AICPA PI1.4 |
|  | AICPA PI1.5 |
|  | AICPA PI1.6 |
|  | CMSRs 2013v2 DI-2 (HIGH) |
|  | CMSRs 2013v2 SI-10 (HIGH) |
|  | CRR V2016 CCM:G2.Q5 |
|  | CSA CCM v3.0.1 AIS-01 |
|  | FedRAMP SI-10 |
|  | FFIEC IS v2016 A.6.27(e) |
|  | FFIEC IS v2016 A.6.29 |
|  | GDPR Article 25(1) |
|  | GDPR Article 32(1)(b) |
|  | HIPAA § 164.312(c)(1) |
|  | HIPAA § 164.312(c)(2) |
|  | HIPAA § 164.312(e)(2)(i) |
|  | ISO 27799-2008 7.9.2.3 |
|  | ISO/IEC 27002:2005 12.2.2 |
|  | JCAHO IM.04.01.01, EP 1 |
|  | MARS-E v2 DI-2 |
|  | MARS-E v2 SI-10 |
|  | NIST Cybersecurity Framework PR.DS-6 |
|  | NIST SP 800-53 R4 DI-2 |
|  | NIST SP 800-53 R4 SI-10 |
|  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  | PMI DSP Framework PR.DS-5 |
|  |  |

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Internet: Yes |
|  | **System Factors:** | Number of Interfaces: 25 to 75 |
|  |  | Number of transactions per day: Greater than 85,000 |
|  |  | Number of users of the system: Greater than 5,500 |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Applications shall undergo application vulnerability testing annually by a qualified |
|  | party, focusing on the use of add, modify, and delete functions to implement |
|  | changes to data, and attacks using buffer overruns/overflows. |
|  | Automated validation checks shall be conducted at an organization-defined |
|  | frequency but no less than monthly and/or after organization-defined security- |
|  | relevant events, through use of tools or other non-manual methods to detect |
|  | unauthorized changes to information, firmware and software. Information system |
|  | flaws shall be identified, reported, and corrected. All appropriate information |
|  | pertaining to the discovered flaws in the information system, including the cause |
|  | of the flaws, mitigation activities, and lessons learned shall be collected. |
|  | The organization shall perform an integrity check of software and information |
|  | daily. |
|  | The organization incorporates the detection of unauthorized security-relevant |
|  | changes to the information system into the organization incident response |
|  | capability to ensure that such detected events are tracked, monitored, corrected, |
|  | and available for historical purposes. |
|  | The information system shall provide notification of failed security verification |
|  | tests. |
|  | Automated validation checks shall be conducted at an organization-defined |
|  | frequency but no less than monthly and/or after organization-defined security- |
|  | relevant events automated through use of tools or other non-manual methods to |
|  | detect unauthorized changes to information, firmware and software. |
|  | The organization shall employ integrity verification tools to detect unauthorized, |
|  | security-relevant configuration changes to software and information. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 SI-10 (HIGH) |
| **Mapping:** | CMSRs 2013v2 SI-2 (HIGH) |
|  |
|  | CMSRs 2013v2 SI-6 (HIGH) |
|  | CMSRs 2013v2 SI-6(2) (HIGH) |
|  | CMSRs 2013v2 SI-7 (HIGH) |
|  | CMSRs 2013v2 SI-7(1) (HIGH) |
|  | CMSRs 2013v2 SI-7(2) (HIGH) |
|  | CMSRs 2013v2 SI-7(5) (HIGH) |
|  |  |

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CMSRs 2013v2 SI-7(7) (HIGH)

CRR V2016 CCM:G2.Q6

CRR V2016 VM:G3.Q2

FedRAMP SI-10

FedRAMP SI-2

FedRAMP SI-7

FedRAMP SI-7(1)

FedRAMP SI-7(7)

FFIEC IS v2016 A.8.1(l)

HIPAA § 164.312(c)(1)

HIPAA § 164.312(e)(2)(i)

IRS Pub 1075 v2014 9.3.17.7

ISO 27799-2008 7.9.2.1

ISO/IEC 27002:2005 12.2.2

JCAHO IM.04.01.01, EP 1

MARS-E v2 CM-6(3)

MARS-E v2 SI-10

MARS-E v2 SI-2

MARS-E v2 SI-7(1)

MARS-E v2 SI-7(7)

MARS-E v2 SI-9

NIST Cybersecurity Framework DE.CM-8

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework PR.DS-6

NIST Cybersecurity Framework RS.MI-3

NIST SP 800-53 R4 SI-10

NIST SP 800-53 R4 SI-2

NIST SP 800-53 R4 SI-6

NIST SP 800-53 R4 SI-6(2)

NIST SP 800-53 R4 SI-7

NIST SP 800-53 R4 SI-7(1)

NIST SP 800-53 R4 SI-7(2)

NIST SP 800-53 R4 SI-7(5)

NIST SP 800-53 R4 SI-7(7)

NRS 603A.215.1

PCI DSS v3.2 6.6

**Level CMS Implementation Requirements Level CMS Implementation:**

The information system automatically implements security safeguards (defined in the applicable security plan) when integrity violations are discovered.

The information system shall fail to a known secure state of all failures preserving

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the maximum amount of state information in failure.

The information system shall verify the correct operation of system security functions upon system startup and restart, upon command by a user with appropriate privilege, periodically on a monthly basis, provide notification of failed automated security tests, notify system administration when anomalies are discovered, and shut down, restart or perform some other defined alternative action (defined in the applicable security plan) when anomalies are discovered.

The information system shall provide automated mechanisms to support the management of distributed security function testing.

The organization shall employ automated tools that provide notification to designated individuals (defined in the applicable security plan) upon discovering discrepancies during integrity verification.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The information system verifies the correct operation of system security functions upon system startup and restart, upon command by a user with appropriate privilege, and periodically on a monthly basis; provides notification of failed automated security tests; notifies system administrators or security personnel when anomalies are discovered; and shuts down, restarts or performs some other defined alternative action when anomalies are discovered.

**Level Providers Implementation Requirements**

**Level Providers Implementation:**

Health information systems processing personal health information shall:

* ensure that each subject of care can be uniquely identified within the system;
* be capable of merging duplicate or multiple records if it is determined that multiple records for the same subject of care have been created unintentionally or during a medical emergency.

**Control Reference: 10.d Message Integrity**

**Control Specification:** Requirements for ensuring authenticity and protecting message integrity in applications shall be identified and controls implemented.

|  |  |
| --- | --- |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Cryptography |
|  |  |
|  | **Level 1 Implementation Requirements** |

|  |  |  |
| --- | --- | --- |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Internet: Yes |
|  | **System Factors:** | Third-Party Exchange: Yes |
|  |  |  |

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|  |  |  |
| --- | --- | --- |
| **Level 1** | Subject to FISMA Compliance | |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance | |
|  | Subject to Joint Commission Accreditation | |
|  | Subject to MARS-E Requirements | |
|  | Subject to Texas Health and Safety Code | |
|  | Subject to the CMS Minimum Security Requirements (High) | |
|  |  |  |
| **Level 1 Implementation:** | The information system provides mechanisms to protect the authenticity of | |
|  |
|  | communications sessions. | |
|  | Cryptographic controls (see 10.f) shall be implemented to ensure message | |
|  | authentication and integrity for covered information applications. | |
|  | The system shall implement one (1) of the following integrity protection | |
|  | algorithms: |  |
|  | • | HMAC-SHA-1 |
|  | • | HMAC-MD5 |
|  | See NIST SP800-52 Guidelines for the Selection and Use of Transport Layer | |
|  | Security (TLS) Implementations for more information on implementing integrity | |
|  | checks for information transmissions. | |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Mapping:** | AICPA CC5.7 |  |
|  |  |
|  | CMSRs 2013v2 SC-23 (HIGH) | |
|  | CMSRs 2013v2 SC-8 (HIGH) | |
|  | FedRAMP SC-23 | |
|  | GDPR Article 32(1)(b) | |
|  | Guidance to render PHI unusable, unreadable, or indecipherable (1)(ii) | |
|  | HIPAA § 164.312(c)(1) | |
|  | HIPAA § 164.312(c)(2) | |
|  | HIPAA § 164.312(e)(2)(i) | |
|  | IRS Pub 1075 v2014 9.3.16.14 | |
|  | IRS Pub 1075 v2014 9.3.16.8 | |
|  | ISO 27799-2008 7.9.2.4 | |
|  | ISO/IEC 27002:2005 12.2.3 | |
|  | ISO/IEC 27002:2013 10.1.1 | |
|  | JCAHO IM.02.01.03, EP 6 | |
|  | MARS-E v2 SC-23 | |
|  | MARS-E v2 SC-8 | |
|  | NIST Cybersecurity Framework PR.DS-2 | |
|  | NIST Cybersecurity Framework PR.DS-5 | |
|  | NIST Cybersecurity Framework PR.DS-6 | |
|  | NIST SP 800-53 R4 SC-8 | |
|  |  |  |

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NIST SP 800-53 SC-23

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework PR.DS-5

**Control Reference: 10.e Output Data Validation**

|  |  |
| --- | --- |
| **Control Specification:** | Data output from an application shall be validated to ensure that the processing of |
|  |
|  | stored information is correct and appropriate to the circumstances. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** |  |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** | Subject to Joint Commission Accreditation |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | For organizations doing system development (e.g., applications, databases), |
|  |
|  | output validation shall be manually or automatically performed. |
|  | Output validation shall include: |
|  | • plausibility checks to test whether the output data is reasonable; |
|  | • reconciliation control counts to ensure processing of all data; |
|  | • providing sufficient information for a reader (i.e. to ensure that the patient |
|  | they are treating matches the information retrieved, or subsequent |
|  | processing system to determine the accuracy, completeness, precision, |
|  | and classification of the information); |
|  | • procedures for responding to output validation tests; |
|  | • defining the responsibilities of all personnel involved in the data output |
|  | process; and |
|  | • creating an automated log of activities in the data output validation |
|  | process. |
|  |  |
| **Level 1** | AICPA CC6.1 |
| **Control Standard** | CSA CCM v3.0.1 AIS-01 |
| **Mapping:** | CSA CCM v3.0.1 AIS-03 |
|  |
|  | GDPR Article 25(1) |
|  | GDPR Article 32(1)(b) |
|  | ISO 27799-2008 7.9.2.5 |
|  | ISO/IEC 27002:2005 12.2.4 |
|  | ISO/IEC 27002:2013 14.2.5 |
|  | JCAHO IM.04.01.01, EP 1 |
|  |  |

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|  |  |
| --- | --- |
|  | NIST SP 800-53 R4 SI-15 |
| **Level 2 Implementation Requirements** | |
|  |  |
| **Level 2** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Internet: Yes |
| **System Factors:** | Number of Interfaces: 25 to 75 |
|  | Number of transactions per day: Greater than 85,000 |
|  | Number of users of the system: Greater than 5,500 |
|  |  |
| **Level 2** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Output validation checks shall be automated. |
|  |  |
| **Level 2** | ISO/IEC 27002:2005 12.2.4 |
| **Control Standard** | ISO/IEC 27002:2013 14.2.5 |
| **Mapping:** |  |
|  |  |

**Objective Name: 10.03 Cryptographic Controls**

**Control**

**Objective:** To protect the confidentiality, authenticity and integrity of information by cryptographic means. A policy shall be developed on the use of cryptographic

controls. Key management should be in place to support the use o

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 10.f Policy on the Use of Cryptographic Controls** | |
|  |  |  |
|  | **Control Specification:** | A policy on the use of cryptographic controls for protection of information shall be |
|  |  |
|  |  | developed and implemented, and supported by formal procedures. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Communications and Transmissions; Cryptography; Media and Assets; Policies |
|  |  | and Procedures that address the approach to key management, including |
|  |  | methods to deal with the protection of cryptographic keys and the recovery |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to Joint Commission Accreditation |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |

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Subject to the State of Nevada Security of Personal Information Requirements

**Level 1 Implementation:**

The cryptographic policy shall address the use of encryption for protection of covered information transported by mobile or removable media, devices or across communication lines. Supporting cryptographic procedures shall address:

* the required level of protection (e.g., the type and strength of the encryption algorithm required); and
* specifications for the effective implementation throughout the organization (i.e. which solution is used for which business processes).

The cryptographic policy shall be aligned with the organization's data protection and privacy policy (see 06.d)

|  |  |  |
| --- | --- | --- |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
|  | **Mapping:** | AICPA CC5.1 |
|  |  |
|  |  | AICPA CC5.7 |
|  |  | CMSRs 2013v2 SC-13 (HIGH) |
|  |  | CSA CCM v3.0.1 EKM-03 |
|  |  | FedRAMP SC-13 |
|  |  | FFIEC IS v2016 A.6.30 |
|  |  | FFIEC IS v2016 A.6.30 |
|  |  | GDPR Article 32(1)(a) |
|  |  | Guidance to render PHI unusable, unreadable, or indecipherable (1) |
|  |  | HIPAA § 164.312(a)(2)(iv) |
|  |  | HIPAA § 164.312(e)(2)(ii) |
|  |  | IRS Pub 1075 v2014 9.3.16.9 |
|  |  | ISO/IEC 27002:2005 12.3.1 |
|  |  | ISO/IEC 27002:2013 10.1.1 |
|  |  | JCAHO IM.02.01.03, EP 2 |
|  |  | MARS-E v2 SC-13 |
|  |  | NIST Cybersecurity Framework PR.DS-1 |
|  |  | NIST Cybersecurity Framework PR.DS-2 |
|  |  | NIST SP 800-53 R4 MP-1 |
|  |  | NIST SP 800-53 R4 SC-1 |
|  |  | NIST SP 800-53 SC-13 |
|  |  | NRS 603A.215.2.a |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |

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|  |  |
| --- | --- |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | When implementing the organization's cryptographic policy and procedures, the |
|  | regulations and national restrictions that apply to the use of cryptographic |
|  | techniques in different parts of the world and to the issues of trans-border flow of |
|  | encrypted information (see 06.f) shall be adhered to. |
|  |  |
| **Level 2** | COBIT 4.1 DS5.8 |
| **Control Standard** | COBIT 5 DSS05.03 |
| **Mapping:** | CSA CCM v3.0.1 GRM-06 |
|  |
|  | FFIEC IS v2016 A.6.30 |
|  | FFIEC IS v2016 A.6.30 |
|  | HIPAA § 164.312(a)(2)(iv) |
|  | HIPAA § 164.312(e)(2)(ii) |
|  | ISO 27799-2008 7.9.3.1 |
|  | ISO/IEC 27002:2005 12.3.1 |
|  | ISO/IEC 27002:2013 10.1.1 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  |  |

**Level PCI Implementation Requirements Level PCI Implementation:**

When being assessed as a service provider, the organization maintains a documented description of the cryptographic architecture that includes: (i) details of all algorithms, protocols, and keys used for the protection of cardholder data, including key strength and expiry date; (ii) description of the key usage for each key; and (iii) inventory of any hardware security modules (HSMs) and other secure cryptographic devices (SCDs) used for key management.

**Level Title 21 CFR Part 11 Implementation Requirements Level Title 21 CFR Part 11**

**Implementation:** Persons using electronic signatures shall prior to or at the time of such use, certify to the agency that the electronic signatures in their system, use on or after August

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|  |  |
| --- | --- |
|  | 20, 1997, are intended to be the legally binding equivalent of traditional |
|  | handwritten signatures by following the preceding steps: |
|  | • The certification shall be submitted in paper form and signed with a |
|  | traditional handwritten signature, to the Office of Regional Operations |
|  | (HFC-100), 5600 Fishers Lane, Rockville, MD 20857. |
|  | • Persons using electronic signatures shall, upon agency request, provide |
|  | additional certification or testimony that a specific electronic signature is |
|  | the legally binding equivalent of the signers hand-written signature. |
| **Control Reference: 10.g Key Management** | |
|  |  |
| **Control Specification:** | Key management shall be in place to support the organization's use of |
|  |
|  | cryptographic techniques. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Authentication; Cryptography; Physical and Facility Security; Requirements (Legal |
|  | and Contractual); Services and Acquisitions |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Joint Commission Accreditation |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |
| **Level 1 Implementation:** | All cryptographic keys shall be protected against modification, loss, and |
|  |
|  | destruction. In addition, secret and private keys shall require protection against |
|  | unauthorized disclosure. Cryptographic keys shall be limited to the fewest number |
|  | of custodians necessary. Equipment used to generate, store and archive keys |
|  | shall be physically protected, and encryption keys shall be stored separately from |
|  | encrypted data. |
|  | If manual clear-text key-management procedures are used, the organization shall |
|  | split knowledge and control of keys (e.g., requiring multiple individuals, knowing |
|  | only their respective key, comprising the whole key). |
|  | Keys shall not be stored in the Cloud (i.e. at the cloud provider in question), but |
|  | maintained by the cloud consumer or trusted key management provider. Key |
|  | management and key usage are separated duties. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | AICPA CC5.1 |
|  |
|  | AICPA CC5.7 |
|  | CSA CCM v3.0.1 EKM-01 |
|  |  |

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CSA CCM v3.0.1 EKM-02

GDPR Article 32(1)(a)

HIPAA § 164.312(a)(2)(iv)

HIPAA § 164.312(e)(2)(ii)

ISO/IEC 27002:2005 12.3.2

ISO/IEC 27002:2013 10.1.2

JCAHO IM.02.01.03, EP 6

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-2

NRS 603A.215.1

PCI DSS v3.2 3.5.2

PCI DSS v3.2 3.6.6

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework PR.DS-2

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | A key management system shall be based on a formal set of standards, |
|  |  | procedures, and secure methods for: |
|  |  | • verifying user identity prior to generating new certificates or keys; |
|  |  | • generating keys for different cryptographic systems and different |
|  |  | applications; |
|  |  | • generating and obtaining public key certificates; |

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|  |  |  |
| --- | --- | --- |
|  | • distributing keys to intended users, including how keys should be | |
|  |  | activated when received; |
|  | • storing keys in the fewest possible locations, including how authorized | |
|  |  | users obtain access to keys; |
|  | • changing or updating keys including rules on when keys should be | |
|  |  | changed and how this will be done: |
|  | • as deemed necessary and recommended by the associated | |
|  |  | application; and |
|  | • | at least annually; |
|  | • revoking keys, including how keys should be withdrawn or | |
|  |  | deactivated (e.g., when keys have been compromised or suspected |
|  |  | to have been compromised or when a user leaves an organization, in |
|  |  | which case keys shall also be archived); |
|  | • recovering keys that are lost or corrupted as part of business | |
|  |  | continuity management (e.g., for recovery of encrypted information); |
|  | • archiving keys (e.g., for information archived or backed up); | |
|  | • | destroying keys; and |
|  | • logging and auditing of key management related activities. | |
|  | In order to reduce the likelihood of compromise, activation, and deactivation, | |
|  | dates for keys shall be defined so that the keys can only be used for a limited | |
|  | period of time. This period of time shall be dependent on the circumstances under | |
|  | which the cryptographic control is being used, and the perceived risk, however the | |
|  | period of time shall not exceed one (1) year. The organization shall prevent the | |
|  | unauthorized substitution of keys. | |
|  | Cryptographic key custodians shall be required to sign a form stating they | |
|  | understand and accept their key custodian responsibilities. | |
|  | In addition to securely managing secret and private keys, the authenticity of public | |
|  | keys shall also be addressed. This authentication process shall be done using | |
|  | public key certificates issued by a certification authority, which shall be a | |
|  | recognized organization with suitable controls and procedures in place to provide | |
|  | the required degree of trust. | |
|  |  | |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) | |
| **Control Standard** | AICPA C1.8 | |
| **Mapping:** | CMSRs 2013v2 SC-12 (HIGH) | |
|  |
|  | CMSRs 2013v2 SC-12(1) (HIGH) | |
|  | CMSRs 2013v2 SC-17 (HIGH) | |
|  | COBIT 4.1 DS5.8 | |
|  | COBIT 5 DSS05.03 | |
|  | CSA CCM v3.0.1 EKM-02 | |
|  | FedRAMP SC-12 | |
|  | FedRAMP SC-12(2) | |
|  | FedRAMP SC-17 | |
|  | HIPAA § 164.312(a)(2)(iv) | |
|  | HIPAA § 164.312(e)(2)(ii) | |
|  |  |  |

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IRS Pub 1075 v2014 9.3.16.11

IRS Pub 1075 v2014 9.3.16.8

ISO 27799-2008 7.9.3.2

ISO/IEC 27002:2005 12.3.2

ISO/IEC 27002:2013 10.1.2

MARS-E v2 SC-12

MARS-E v2 SC-12(2)

MARS-E v2 SC-17

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-2

NIST SP 800-53 R4 SC-12

NIST SP 800-53 R4 SC-12(1)

NIST SP 800-53 R4 SC-17

NRS 603A.215.1

PCI DSS v3.2 3.5

PCI DSS v3.2 3.5.2

PCI DSS v3.2 3.5.4

PCI DSS v3.2 3.5.8

PCI DSS v3.2 3.6

PCI DSS v3.2 3.6.1

PCI DSS v3.2 3.6.2

PCI DSS v3.2 3.6.3

PCI DSS v3.2 3.6.4

PCI DSS v3.2 3.6.5

PCI DSS v3.2 3.6.7

PCI DSS v3.2 8.2.2

PMI DSP Framework PR.DS-2

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization maintains availability of information in the event of the loss of cryptographic keys by users. Mechanisms are employed to:

* prohibit the use of encryption keys that are not recoverable by authorized personnel,
* require senior management approval to authorize recovery of keys by other than the key owner, and
* comply with approved cryptography standards specified in 10.f.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The organization produces, controls, and distributes asymmetric cryptographic keys using:

* NSA-approved key management technology and processes;

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* approved PKI Class 3 certificates or prepositioned keying material; or
* approved PKI Class 3 or Class 4 certificates and hardware security tokens that protect the users private key.

**Level PCI Implementation Requirements Level PCI Implementation:**

Store secret and private keys used to encrypt/decrypt cardholder data in one (1)

(or more) of the following forms at all times:

* Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored separately from the data- encrypting key.
* Within a secure cryptographic device (such as a host security module (HSM) or PTS-approved point-of-interaction device).
* As at least two (two) full-length key components or key shares, in accordance with an industry-accepted method.

**Objective Name: 10.04 Security of System Files**

**Control**

**Objective:** To ensure the security of system files, access to system files and program source code shall be controlled, and IT projects and support activities conducted in a

secure manner.

|  |  |
| --- | --- |
| **Control Reference: 10.h Control of Operational Software** | |
|  |  |
| **Control Specification:** | There shall be procedures in place to control the installation of software on |
|  |
|  | operational systems. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authorization; Documentation and Records; Maintenance; Monitoring; Services |
|  | and Acquisitions; Third Parties and Contractors |
|  |  |

**Level 1 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 1** |  |
| **Organizational Factors:** |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
| **Level 1 Implementation:** | To minimize the risk of corruption to operational systems, the following |
|  |
|  | procedures shall be implemented to control changes: |
|  | • the updating of the operational software, applications, and program |

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|  |  |
| --- | --- |
|  | libraries shall only be performed by authorized administrators; and |
|  | • operational systems shall only hold approved programs or executable |
|  | code (i.e. no development code or compilers). |
|  | Vendor supplied software used in operational systems shall be maintained at a |
|  | level supported by the supplier. |
|  | The organization uses the latest version of Web browsers on operational systems |
|  | to take advantage of the latest security functions in the application. |
|  | The organization shall maintain information systems according to a current |
|  | baseline configuration and configure system security parameters to prevent |
|  | misuse. The operating system shall have in place supporting technical controls |
|  | such as antivirus, file integrity monitoring, host-based (personal) firewalls or port |
|  | filtering tools, and logging as part of their baseline. |
|  | Any decision to upgrade to a new release shall take into account the business |
|  | requirements for the change, and the security and privacy impacts of the release |
|  | (e.g., the introduction of new security functionality or the number and severity of |
|  | security problems affecting this version). |
|  | If systems or system components in production are no longer supported by the |
|  | developer, vendor, or manufacturer, the organization must show evidence of a |
|  | formal migration plan approved by management to replace the system or system |
|  | components. |
|  | Rules for the migration of software from development to operational status shall |
|  | be defined and documented by the organization hosting the affected |
|  | application(s), including that development, test, and operational systems be |
|  | separated (physically or virtually) to reduce the risks of unauthorized access or |
|  | changes to the operational system. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 21 CFR Part 11.10(a) |
| **Mapping:** | AICPA C1.7 |
|  |
|  | AICPA CC5.5 |
|  | AICPA CC7.2 |
|  | AICPA CC7.3 |
|  | AICPA CC7.4 |
|  | CIS CSC v6 18.1 |
|  | CIS CSC v6 18.7 |
|  | CIS CSC v6 7.1 |
|  | CIS CSC v6 9.2 |
|  | CMSRs 2013v2 CM-4 (HIGH) |
|  | CMSRs 2013v2 CM-6 (HIGH) |
|  | CMSRs 2013v2 CM-6(1) (HIGH) |
|  | CMSRs 2013v2 CM-6(2) (HIGH) |
|  | CMSRs 2013v2 SA-22 (HIGH) |
|  | CMSRs 2013v2 SC-17(12) (HIGH) |
|  |  |

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CSA CCM v3.0.1 CCC-04

CSA CCM v3.0.1 IVS-07

FedRAMP CM-4

FedRAMP SC-7(12)

IRS Pub 1075 v2014 9.3.15.10

IRS Pub 1075 v2014 9.3.5.4

IRS Pub 1075 v2014 9.3.5.6

IRS Pub 1075 v2014 9.4.18

ISO/IEC 27002:2005 12.4.1

ISO/IEC 27002:2013 12.5.1

MARS-E v2 CM-4

NIST Cybersecurity Framework PR.DS-7

NIST Cybersecurity Framework PR.IP-1

NIST Cybersecurity Framework PR.IP-3

NIST SP 800-53 R4 CM-4

NIST SP 800-53 R4 CM-6

NIST SP 800-53 R4 CM-6(1)

NIST SP 800-53 R4 CM-6(2)

NIST SP 800-53 R4 SA-22

PCI DSS v3.2 2.2.4

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Number of transactions per day: 6,750 to 85,000 |
|  | **System Factors:** | Number of users of the system: 500 to 5,500 |
|  |  | Third-Party Accessible: Yes |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Applications and operating system software shall only be implemented after |
|  |  | successful testing. The tests shall include tests on usability, security, and effects |
|  |  | on other systems, and shall be carried out on separate systems. It shall be |
|  |  | ensured that all corresponding program source libraries have been updated. |
|  |  | A configuration control system shall be used to keep control of all implemented |
|  |  | software as well as the system documentation. |
|  |  | A rollback strategy shall be in place before changes are implemented. |
|  |  | An audit log shall be maintained of all updates to operational program libraries. |
|  |  | Previous versions of application software shall be retained as a contingency |

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|  |  |
| --- | --- |
|  | measure. Old versions of software shall be archived, together with all required |
|  | information and parameters, procedures, configuration details, and supporting |
|  | software for as long as the data is retained in archive or as dictated by the |
|  | organization's data retention policy. |
|  | Physical or logical access shall only be given to suppliers for support purposes |
|  | when necessary, and with management approval. The supplier's activities shall be |
|  | monitored. |
|  | The organization prevents program execution in accordance with the list of |
|  | unauthorized (blacklisted) software programs and rules authorizing the terms and |
|  | conditions of software program usage. |
|  | The organization: |
|  | • identifies unauthorized (blacklisted) software on the information system, |
|  | including servers, workstations and laptops; |
|  | • employs an allow-all, deny-by-exception policy to prohibit the execution of |
|  | known unauthorized (blacklisted) software on the information system; and |
|  | • reviews and updates the list of unauthorized (blacklisted) software |
|  | periodically, but no less than annually. |
|  |  |
| **Level 2** | 21 CFR Part 11.10(a) |
| **Control Standard** | AICPA C1.7 |
| **Mapping:** | CIS CSC v6 2.1 |
|  |
|  | CIS CSC v6 2.2 |
|  | CIS CSC v6 7.2 |
|  | CIS CSC v6 7.3 |
|  | CIS CSC v6 7.5 |
|  | CMSRs 2013v2 CM-2(3) (HIGH) |
|  | CMSRs 2013v2 CM-3 (HIGH) |
|  | CMSRs 2013v2 CM-3(2) (HIGH) |
|  | CMSRs 2013v2 CM-7(2) (HIGH) |
|  | CMSRs 2013v2 CM-7(5) (HIGH) |
|  | FedRAMP CM-2(3) |
|  | FedRAMP CM-7(5) |
|  | FFIEC IS v2016 A.6.17 |
|  | FFIEC IS v2016 A.6.18 |
|  | ISO/IEC 27002:2005 12.4.1 |
|  | ISO/IEC 27002:2013 12.1.14 |
|  | ISO/IEC 27002:2013 12.5.1 |
|  | MARS-E v2 CM-2(3) |
|  | MARS-E v2 CM-3 |
|  | MARS-E v2 CM-3(2) |
|  | NIST Cybersecurity Framework PR.DS-7 |
|  | NIST Cybersecurity Framework PR.IP-1 |
|  | NIST Cybersecurity Framework PR.IP-3 |
|  |  |

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NIST SP 800-53 R4 CM-2(3)

NIST SP 800-53 R4 CM-3

NIST SP 800-53 R4 CM-3(2)

NIST SP 800-53 R4 CM-7(2)

NIST SP 800-53 R4 CM-7(4)

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization's list of authorized software and version (whitelist) should be monitored by file integrity checking tools to validate the list has not been modified.

The organization deploys application whitelisting technology that allows systems to run software only if it is authorized to execute (whitelisted) and prevents execution of all other software on the system.

Unnecessary browser and email client plugins and/or add-on applications that are not absolutely necessary for the functionality of the application are uninstalled or disabled. Each plugin shall utilize application / URL whitelisting and only allow the use of the application for pre-approved domains.

The organization limits the use of unnecessary scripting languages in all Web browsers and email clients. This includes the use of languages such as ActiveX and JavaScript on systems where it is unnecessary to support such capabilities.

The organization deploys two (2) separate browser configurations to each system. One configuration is used for general Web browsing, disables the use of all plugins and unnecessary scripting languages, and is generally configured with limited functionality. The other configuration shall allow for more browser functionality but is only used to access specific Websites that require the use of such functionality.

**Level Cloud Service Implementation Requirements**

**Providers**

**Level Cloud Service**

**Providers Implementation:** Cloud service providers shall use open and published APIs to ensure support for interoperability between components and to facilitate migrating applications. In

addition, all structured and unstructured data shall be available to the organization (customer) and provided to them upon request in an industry-standard format (e.g., .doc, .xls, pdf, logs, and flat files).

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall employ automated mechanisms to respond to unauthorized changes to authorization and/or auditing systems and system security-related configuration baselines, log files, and critical system files (including sensitive system and application executables, libraries, and configurations).

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**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** To access FTI using a Web browser, the agency must determine the business use of Java and approve the use of Java if is required for core business functions.

**Control Reference: 10.i Protection of System Test Data**

|  |  |
| --- | --- |
| **Control Specification:** | Test data shall be selected carefully, and protected and controlled in non- |
|  | production environments. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authorization; Data Loss Prevention; Documentation and Records; User Access |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** | Applicable to all systems |
| **System Factors:** |
|  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | The use of operational databases containing covered information for non- |
|  |
|  | production (e.g., testing) purposes shall be avoided. If covered, or otherwise |
|  | sensitive, information must be used for testing purposes, all sensitive details and |
|  | content shall be removed or modified beyond recognition (e.g., de-identified) |
|  | before use. |
|  | The following requirements shall be applied to protect data, when used for testing |
|  | purposes: |
|  | • the access control procedures, which apply to operational application |
|  | systems, shall also apply to test application systems (see 1.0); |
|  | • there shall be formal management authorization for instances where |
|  | operational information is copied to a non-production application system; |
|  | and |
|  | • operational information and test accounts shall be erased from a test |
|  | application system immediately after the testing is complete. |
|  |  |
| **Level 1** | AICPA C1.1 |
| **Control Standard** | AICPA CC7.4 |
| **Mapping:** | CSA CCM v3.0.1 DSI-05 |
|  |
|  | GDPR Article 32(1)(a) |
|  | HIPAA § 164.312(a)(1) |
|  | IRS Pub 1075 v2014 9.4.6 |
|  | ISO 27799-2008 7.9.4.2 |
|  | ISO/IEC 27002:2005 12.4.2 |
|  | ISO/IEC 27002:2013 14.3.1 |
|  |  |

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NIST Cybersecurity Framework PR.AC-1

NIST Cybersecurity Framework PR.AC-2

NIST Cybersecurity Framework PR.AC-3

NIST Cybersecurity Framework PR.AC-4

NIST Cybersecurity Framework PR.AC-5

NIST SP 800-53 R4 SA-15(9)

PCI DSS v3.2 6.4

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** |  |
| **Organizational Factors:** |  |
|  |  |
| **Level 2** | Internet: Yes |
| **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  | Number of users of the system: 500 to 5,500 |
|  |  |
| **Level 2** | Subject to CA Civil Code § 1798.81.5 |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The following requirements shall be applied to protect operational data, when |
|  | used for testing purposes: |
|  | • security controls shall be equally applied to non-production |
|  | environments as production environments; |
|  | • all instances where covered information is used in non-production |
|  | environments must be documented; and |
|  | • the copying, use and erasure of operational information shall be |
|  | logged to provide an audit trail. |
|  | Personnel developing and testing system code shall not have access to |
|  | production libraries. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CIS CSC v6 18.9 |
| **Mapping:** | HIPAA § 164.308(a)(4)(i) |
|  |
|  | HIPAA § 164.312(a)(1) |
|  | IRS Pub 1075 v2014 9.4.6 |
|  | ISO/IEC 27002:2005 12.4.2 |
|  | ISO/IEC 27002:2013 14.3.1 |
|  | NIST Cybersecurity Framework PR.AC-1 |
|  | NIST Cybersecurity Framework PR.AC-2 |
|  | NIST Cybersecurity Framework PR.AC-3 |
|  | NIST Cybersecurity Framework PR.AC-4 |
|  | NIST Cybersecurity Framework PR.AC-5 |
|  | NIST Cybersecurity Framework PR.PT-1 |
|  |  |

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NIST Cybersecurity Framework PR.PT-3

**Level CIS Implementation Requirements Level CIS Implementation:**

For in-house developed applications, the organization ensures that development artifacts (sample data and scripts; unused libraries, components, debug code; or tools) are not included in the deployed software, or accessible in the production environment.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The agency avoids (limits) the use of live FTI&#45;primarily unmodified, non-sanitized data extracted from taxpayer files that identifies specific individual or corporate taxpayers and includes taxpayer information or tax return information&#45;in pre-production (e.g., test environments) and is not authorized unless specifically approved by the Office of Safeguards through the submission of a Data Testing Request (DTR) form. The DTR must provide a detailed explanation of the safeguards in place to protect the data and the necessity for using live data during testing. The organization revises its Need and Use Justification to cover this use of IRS data if not already addressed.

For one-time testing efforts, the agency detects the FTI from systems and databases upon completion of testing efforts and electronically clears the hard drive(s) of the test systems prior to repurposing the system for other agency testing efforts. The agency agrees with the Office of Safeguards to a specific duration for ongoing test activities.

**Control Reference: 10.j Access Control to Program Source Code**

|  |  |
| --- | --- |
| **Control Specification:** | Access to program source code shall be restricted. |
|  |  |
| **Factor Type:** | System |
|  |  |
| **Topics:** | Authorization; Policies and Procedures; Risk Management and Assessments; |
|  | Services and Acquisitions; User Access |
|  |  |

**Level 1 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 1** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** | Applicable to all systems |
|  | **System Factors:** |
|  |  |
|  |  |  |
|  | **Level 1** |  |
|  | **Regulatory Factors:** |  |
|  |  |  |
|  | **Level 1 Implementation:** | Access to program source code (code written by programmers, which is compiled |
|  |  |
|  |  | and linked to create executables) and associated items (such as designs, |
|  |  | specifications, verification plans and validation plans) shall be strictly controlled, in |
|  |  | order to prevent the introduction of unauthorized functionality and to avoid |
|  |  | unintentional changes. An organization will not have access to source code for |

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|  |  |  |
| --- | --- | --- |
|  |  | the majority of purchased software applications, and this requirement does not |
|  |  | apply. |
|  |  |  |
|  | **Level 1** | AICPA CC7.4 |
|  | **Control Standard** | CMSRs 2013v2 CM-5 (HIGH) |
|  | **Mapping:** | CMSRs 2013v2 CM-7 (HIGH) |
|  |  |
|  |  | CSA CCM v3.0.1 IAM-06 |
|  |  | CSA CCM v3.0.1 IAM-09 |
|  |  | FedRAMP CM-5 |
|  |  | FedRAMP CM-7 |
|  |  | HIPAA § 164.308(a)(4)(i) |
|  |  | HIPAA § 164.312(a)(1) |
|  |  | ISO/IEC 27002:2005 12.4.3 |
|  |  | ISO/IEC 27002:2013 9.4.5 |
|  |  | MARS-E v2 CM-5 |
|  |  | MARS-E v2 CM-7 |
|  |  | NIST Cybersecurity Framework PR.DS-5 |
|  |  | NIST Cybersecurity Framework PR.PT-3 |
|  |  | NIST SP 800-53 R4 AC-3 |
|  |  | NIST SP 800-53 R4 CM-5 |
|  |  | NIST SP 800-53 R4 CM-7 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** |  |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 2** | Internet: Yes |
|  | **System Factors:** | Number of transactions per day: 6,750 to 85,000 |
|  |  | Number of users of the system: 500 to 5,500 |
|  |  |  |
|  | **Level 2** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Program source code shall be stored in a central location, specifically in program |
|  |  | source libraries. |
|  |  | The following requirements shall be implemented (see 1.0) to control access to |
|  |  | such program source libraries in order to reduce the potential for corruption of |
|  |  | computer programs: |
|  |  | • program source libraries shall not be held in operational systems; |
|  |  | • the program source code and the program source libraries shall be |
|  |  | managed according to established procedures; |
|  |  | • access to program source libraries shall be strictly limited to that which is |
|  |  | needed to perform a job function; |
|  |  | • the updating of program source libraries and associated items, and the |

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|  |  |
| --- | --- |
|  | issuing of program sources to programmers shall only be performed after |
|  | appropriate authorization has been received; |
|  | • program listings shall be held in a secure environment (see 9.r); |
|  | • an audit log shall be maintained of all accesses to program source |
|  | libraries; and |
|  | • maintenance and copying of program source libraries shall be subject to |
|  | strict change control procedures (see 10.k). |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 AC-6(HIGH) |
| **Mapping:** | CMSRs 2013v2 CM-5(HIGH) |
|  |
|  | CSA CCM v3.0.1 IAM-06 |
|  | FedRAMP AC-6 |
|  | FedRAMP CM-5 |
|  | IRS Pub 1075 v2014 9.3.1.6 |
|  | IRS Pub 1075 v2014 9.3.5.5 |
|  | ISO 27799-2008 7.9.4.3 |
|  | ISO/IEC 27002:2005 12.4.3 |
|  | ISO/IEC 27002:2013 9.4.5 |
|  | MARS-E v2 AC-6 |
|  | MARS-E v2 CM-5 |
|  | NIST Cybersecurity Framework PR.PT-3 |
|  | NIST SP 800-53 R4 AC-6 |
|  | NIST SP 800-53 R4 CM-5 |
|  |  |

**Objective Name: 10.05 Security In Development and Support Processes**

**Control**

**Objective:** To ensure the security of application system software and information through the development process, project and support environments shall be strictly

controlled.

**Control Reference: 10.k Change Control Procedures**

**Control Specification:**

|  |  |  |
| --- | --- | --- |
|  |  | The implementation of changes, including patches, service packs, and other |
|  |  | updates and modifications, shall be controlled by the use of formal change control |
|  |  | procedures. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Documentation and Records; IT Organization and Management Roles and |
|  |  | Responsibilities; Requirements (Legal and Contractual) |
|  |  |  |
|  |  | **Level 1 Implementation Requirements** |
|  |  |  |

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|  |  |
| --- | --- |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Project and support environments shall be strictly controlled. Managers |
|  |
|  | responsible for application systems shall also be responsible for the security of |
|  | the project or support environment. They shall ensure that all proposed system |
|  | changes are reviewed to check that they do not compromise the security of either |
|  | the system or the operating environment. |
|  | The organization manages changes to mobile device operating systems, patch |
|  | levels, and/or applications through a formal change management process. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.1 |
| **Mapping:** | AICPA C1.8 |
|  |
|  | AICPA CC2.6 |
|  | AICPA CC7.1 |
|  | AICPA CC7.2 |
|  | AICPA CC7.3 |
|  | AICPA CC7.4 |
|  | CMSRs 2013v2 CM-3 (HIGH) |
|  | CRR V2016 CCM:G1.Q1 |
|  | CSA CCM v3.0.1 MOS-15 |
|  | FedRAMP CM-3 |
|  | IRS Pub 1075 v2014 9.3.5.3 |
|  | ISO/IEC 27001:2013 8.1 |
|  | ISO/IEC 27002:2005 12.5.1 |
|  | ISO/IEC 27002:2005 12.5.2 |
|  | ISO/IEC 27002:2013 14.2.3 |
|  | ISO/IEC 27002:2013 14.2.6 |
|  | MARS-E v2 CM-3 |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST Cybersecurity Framework PR.IP-3 |
|  | NIST SP 800-53 R4 CM-3 |
|  |  |

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |

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|  |  |  |
| --- | --- | --- |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to EHNAC Accreditation |
|  | **Regulatory Factors:** | Subject to PCI Compliance |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | A formal, documented configuration management policy that addresses purpose, |
|  |  | scope, roles, responsibilities, management commitment, coordination among |
|  |  | organizational entities, and compliance shall be developed. Configuration |
|  |  | management policy/procedures shall be reviewed/updated annually. |
|  |  | The organization shall develop, document, and implement a configuration |
|  |  | management plan for the information system that: |
|  |  | • addresses roles, responsibilities, and configuration management |
|  |  | processes and procedures; |
|  |  | • defines the configuration items for the information system and when |
|  |  | in the system development life cycle the configuration items are |
|  |  | placed under configuration management; and |
|  |  | • establishes a process for identifying configuration items throughout |
|  |  | the system development life cycle, and for managing the |
|  |  | configuration of the configuration items. |
|  |  | • protects the configuration management plan from unauthorized |
|  |  | disclosure and modification. |
|  |  | Formal change control procedures shall be documented and enforced in order to |
|  |  | minimize the corruption of information systems. Introduction of new systems and |
|  |  | major changes to existing systems shall follow a formal process of |
|  |  | documentation, specification, testing, quality control, and managed |
|  |  | implementation. |
|  |  | This process shall include a risk assessment, analysis of the security and privacy |
|  |  | impacts of changes, and specification of security controls needed. This process |
|  |  | shall also ensure that existing security and control procedures are not |
|  |  | compromised, that support programmers are given access only to those parts of |
|  |  | the system necessary for their work, and that formal agreement and approval for |
|  |  | any change is obtained. |
|  |  | Installation checklists shall be used to validate the configuration of servers, |
|  |  | devices and appliances. In addition, vulnerability port scanning shall occur on |
|  |  | server and desktops and compare to a known effective baseline to ensure |
|  |  | configuration meets minimum security standards. If a change that is not listed on |
|  |  | the organization's approved baseline is discovered, an alert is generated and |

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|  |  |
| --- | --- |
|  | reviewed by the organization. |
|  | The change procedures shall minimally include: |
|  | • ensuring changes are submitted by authorized users; |
|  | • maintaining a record of agreed authorization levels; |
|  | • reviewing controls and integrity procedures to ensure that they will not be |
|  | compromised by the changes; |
|  | • identifying all software, information, database entities, and hardware that |
|  | require amendment; |
|  | • obtaining formal approval for detailed proposals requesting changes |
|  | before work commences; |
|  | • documenting unit, system, and user acceptance testing procedures in an |
|  | environment segregated from development and production; |
|  | • ensuring all system components are tested and approved (operating |
|  | system, utility, applications) prior to promotion to production; |
|  | • documenting rollback procedures for failed changes; |
|  | • ensuring authorized users accept changes prior to implementation based |
|  | on the results on the completion of each change or testing of the |
|  | changes; |
|  | • ensuring that the system documentation set is updated, and that old |
|  | documentation is archived or disposed of; |
|  | • maintaining a version control for all software updates; |
|  | • maintaining an audit trail of all change requests and approvals; |
|  | • testing for mobile device, operating system, and application compatibility |
|  | issues via a documented application validation process; and |
|  | • ensuring that operating documentation (see 9.a) and user procedures are |
|  | changed as necessary to remain appropriate. |
|  | If development is outsourced, change control procedures to address security are |
|  | included in the contract(s). Automated updates shall not be used on critical |
|  | systems, as some updates may cause critical applications to fail. |
|  | The organization shall require the developer of the information system, system |
|  | component, or information system service to track security flaws and flaw |
|  | resolution within the system, component, or service and report findings to |
|  | organization-defined personnel or roles. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | CIS CSC v6 9.3 |
|  |
|  | CMSRs 2013v2 CM-1 (HIGH) |
|  | CMSRs 2013v2 CM-2(2) (HIGH) |
|  | CMSRs 2013v2 CM-3 (HIGH) |
|  | CMSRs 2013v2 CM-3(1) (HIGH) |
|  | CMSRs 2013v2 CM-3(2) (HIGH) |
|  | CMSRs 2013v2 CM-4 (HIGH) |
|  | CMSRs 2013v2 CM-4(1) (HIGH) |
|  | CMSRs 2013v2 CM-4(2) (HIGH) |
|  | CMSRs 2013v2 CM-5 (HIGH) |
|  |  |

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CMSRs 2013v2 CM-5(1) (HIGH)

CMSRs 2013v2 CM-5(3) (HIGH)

CMSRs 2013v2 CM-6 (HIGH)

CMSRs 2013v2 CM-9 (HIGH)

CMSRs 2013v2 SA-10(HIGH)

CRR V2016 CCM:G1.Q1

CRR V2016 CCM:G1.Q4

CRR V2016 CCM:G1.Q6

CRR V2016 CCM:G2.Q1

CRR V2016 CCM:G2.Q2

CRR V2016 CCM:G2.Q3

CRR V2016 CCM:G2.Q4

CRR V2016 CCM:G2.Q7

CSA CCM v3.0.1 CCC-05

CSA CCM v3.0.1 MOS-07

FedRAMP CM-1

FedRAMP CM-3

FedRAMP CM-4

FedRAMP CM-5

FedRAMP CM-5(3)

FedRAMP CM-5(5)

FedRAMP CM-6

FedRAMP CM-9

FedRAMP SA-10

FFIEC IS v2016 A.6.11(a)

FFIEC IS v2016 A.6.11(b)

FFIEC IS v2016 A.6.11(c)

FFIEC IS v2016 A.6.11(d)

FFIEC IS v2016 A.6.11(e)

FFIEC IS v2016 A.6.11(f)

FFIEC IS v2016 A.6.11(g)

FFIEC IS v2016 A.6.11(h)

FFIEC IS v2016 A.6.11(i)

FFIEC IS v2016 A.6.11(j)

FFIEC IS v2016 A.6.11(k)

FFIEC IS v2016 A.6.11(l)

FFIEC IS v2016 A.6.11(m)

FFIEC IS v2016 A.6.12

FFIEC IS v2016 A.6.15(d)

FFIEC IS v2016 A.6.15(g)

FFIEC IS v2016 A.6.15(h)

FFIEC IS v2016 A.6.28(a)

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HIPAA § 164.308(a)(4)(i)

HIPAA § 164.312(a)(1)

IRS Pub 1075 v2014 9.3.15.8

IRS Pub 1075 v2014 9.3.5.1

IRS Pub 1075 v2014 9.3.5.3

IRS Pub 1075 v2014 9.3.5.4

IRS Pub 1075 v2014 9.3.5.5

IRS Pub 1075 v2014 9.3.5.6

IRS Pub 1075 v2014 9.3.5.9

ISO/IEC 27002:2005 12.5.1

ISO/IEC 27002:2005 12.5.3

ISO/IEC 27002:2013 14.2.2

ISO/IEC 27002:2013 14.2.4

ISO/IEC 27002:2013 14.2.7

MARS-E v2 CM-1

MARS-E v2 CM-3

MARS-E v2 CM-3(2)

MARS-E v2 CM-4

MARS-E v2 CM-4(1)

MARS-E v2 CM-4(2)

MARS-E v2 CM-5

MARS-E v2 CM-6

MARS-E v2 CM-9

MARS-E v2 SA-10

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST Cybersecurity Framework PR.AT-3

NIST Cybersecurity Framework PR.IP-1

NIST Cybersecurity Framework PR.IP-2

NIST Cybersecurity Framework PR.IP-3

NIST Cybersecurity Framework PR.PT-3

NIST SP 800-53 R4 AC-3

NIST SP 800-53 R4 CM-1

NIST SP 800-53 R4 CM-2(2)

NIST SP 800-53 R4 CM-3

NIST SP 800-53 R4 CM-3(1)

NIST SP 800-53 R4 CM-3(2)

NIST SP 800-53 R4 CM-4

NIST SP 800-53 R4 CM-4(1)

NIST SP 800-53 R4 CM-4(2)

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|  |  |  |
| --- | --- | --- |
|  |  | NIST SP 800-53 R4 CM-5 |
|  |  | NIST SP 800-53 R4 CM-5(1) |
|  |  | NIST SP 800-53 R4 CM-6 |
|  |  | NIST SP 800-53 R4 CM-9 |
|  |  | NIST SP 800-53 R4 SA-10 |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 6.4 |
|  |  |  |
|  | **Level 3 Implementation Requirements** | |
|  |  |  |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization shall develop, document, and maintain under configuration |
|  |  | control, a current baseline configuration of the information system. |
|  |  | The organization shall review and update the baseline configuration of the |
|  |  | information system: |
|  |  | • at least once every six (6) months; |
|  |  | • when required due to critical security patches, upgrades and emergency |
|  |  | changes (e.g., unscheduled changes, system crashes, replacement of |
|  |  | critical hardware components), major system changes/upgrades; |
|  |  | • as an integral part of information system component installations, |
|  |  | • upgrades, and |
|  |  | • supporting baseline configuration documentation reflects ongoing |
|  |  | implementation of operational configuration baseline updates, either |
|  |  | directly or by policy. |
|  |  | The organization: |

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|  |  |
| --- | --- |
|  | • establishes and documents mandatory configuration settings for |
|  | information technology products employed within the information system |
|  | using the latest security configuration baselines established by the HHS, |
|  | U.S. Government Configuration Baselines (USGCB), and the National |
|  | Checklist Program (NCP) defined by NIST SP 800-70 Rev. 2, that reflect |
|  | the most restrictive mode consistent with operational requirements; |
|  | • identifies, documents, and approves exceptions from the mandatory |
|  | established configuration settings for individual components within the |
|  | information system based on explicit operational requirements; and |
|  | • monitors and controls changes to the configuration settings in accordance |
|  | with organizational policies and procedures. |
|  | The organization shall employ automated mechanisms to centrally manage, |
|  | apply, and verify configuration settings. The organization shall employ automated |
|  | mechanisms to respond to unauthorized changes to network and system security- |
|  | related configuration settings. |
|  | The information system enforces access restrictions and supports auditing of the |
|  | enforcement actions. |
|  | The integrity of all virtual machine images shall be ensured at all times. Any |
|  | changes made to virtual machine images must be logged and an alert raised |
|  | regardless of their running state (e.g. dormant, off, or running). The results of a |
|  | change or move of an image and the subsequent validation of the image's |
|  | integrity must be immediately available to the business owner(s) and/or |
|  | customer(s) through electronic methods (e.g. portals or alerts). |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.8 |
| **Mapping:** | CIS CSC v6 15.1 |
|  |
|  | CIS CSC v6 3.2 |
|  | CIS CSC v6 3.3 |
|  | CIS CSC v6 3.6 |
|  | CIS CSC v6 3.7 |
|  | CMSRs 2013v2 CM-2 (HIGH) |
|  | CMSRs 2013v2 CM-2(1) (HIGH) |
|  | CMSRs 2013v2 CM-2(2) (HIGH) |
|  | CMSRs 2013v2 CM-2(3) (HIGH) |
|  | CMSRs 2013v2 CM-2(6) (HIGH) |
|  | CMSRs 2013v2 CM-5(2) (HIGH) |
|  | CMSRs 2013v2 CM-6 (HIGH) |
|  | CMSRs 2013v2 CM-6(1) (HIGH) |
|  | CMSRs 2013v2 CM-6(2) (HIGH) |
|  | CRR V2016 CCM:G3.Q1 |
|  | CRR V2016 CCM:G3.Q2 |
|  | CSA CCM v3.0.1 IVS-02 |
|  | FedRAMP CM-2 |
|  |  |

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FedRAMP CM-2(1)

FedRAMP CM-6(1)

FFIEC IS v2016 A.6.12

FFIEC IS v2016 A.6.14

IRS Pub 1075 v2014 9.3.5.2

IRS Pub 1075 v2014 9.3.5.6

IRS Pub 1075 v2014 9.4.11

IRS Pub 1075 v2014 9.4.13

IRS Pub 1075 v2014 9.4.14

IRS Pub 1075 v2014 9.4.15

IRS Pub 1075 v2014 9.4.16

IRS Pub 1075 v2014 9.4.17

IRS Pub 1075 v2014 9.4.18

IRS Pub 1075 v2014 9.4.2 (E.10)

IRS Pub 1075 v2014 9.4.3

IRS Pub 1075 v2014 9.4.5

IRS Pub 1075 v2014 9.4.8

IRS Pub 1075 v2014 9.4.9

MARS-E v2 CM-2

MARS-E v2 CM-2(1)

MARS-E v2 CM-6

MARS-E v2 CM-6(1)

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework DE.CM-7

NIST Cybersecurity Framework PR.IP-1

NIST Cybersecurity Framework PR.IP-3

NIST SP 800-53 R4 CM-2

NIST SP 800-53 R4 CM-2(1)

NIST SP 800-53 R4 CM-2(2)

NIST SP 800-53 R4 CM-2(3)

NIST SP 800-53 R4 CM-2(6)

NIST SP 800-53 R4 CM-5(2)

NIST SP 800-53 R4 CM-6

NIST SP 800-53 R4 CM-6(1)

NIST SP 800-53 R4 CM-6(2)

**Level CIS Implementation Requirements Level CIS Implementation:**

The organization builds secure images for workstations, servers and other system types from their secure configuration baselines and uses these images to build all new systems it deploys. Any existing systems that must be rebuilt (e.g., due to compromise) shall be rebuilt from the organizations secure images. Regular updates or exceptions to these secure images shall be formally managed by the

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organizations change management processes.

**Level CMS Implementation Requirements Level CMS Implementation:**

HHS&#45;specific, minimum security configurations shall be used for the following

Operating System (OS) and Applications:

* HHS FDCC Windows XP Standard
* HHS FDCC Windows Vista Standard
* Blackberry Server
* Websense.

For all other OSs and applications, and to resolve configuration conflicts among multiple security guidelines, the CMS hierarchy for implementing security configuration guidelines is as follows:

* USGCB
* NIST National Checklist Program (NCP); Tier IV, then Tier III, Tier II, and Tier I, in descending order.
* Defense Information Systems Agency (DISA) STIGs
* National Security Agency (NSA) STIGs
* If formal government-authored checklists do not exist, then organizations are encouraged to use vendor or industry group (such as The Center for Internet Security [CIS]) checklists.
* In situations where no guidance exists, coordinate with CMS for guidance. CMS shall collaborate within CMS and the HHS Cybersecurity Program, and other OPDIVs through the HHS Continuous Monitoring and Risk Scoring (CMRS) working group to establish baselines and communicate industry and vendor best practices.
* All deviations from existing USGCB, NCP, DISA and/or NSA configurations must be documented in an approved HHS waiver, with copies submitted to the Department.

The organization shall maintain a baseline configuration for development and test environments that is managed separately from the operational baseline configuration.

The organization shall employ automated mechanisms to enforce access restrictions and support auditing of the enforcement actions. The organization reviews information system changes weekly, and when indications so warrant, to determine whether unauthorized changes have occurred.

The information system shall prevent the installation of network and server software and firmware components without verification that the component has been digitally signed using a certificate that is recognized and approved by the organization.

The organization shall employ automated mechanisms to:

* document proposed changes to the information system;
* notify designated approval authorities and request change approval;
* highlight approvals that have not been approved or disapproved in a

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timely manner;

* prohibit change until designated approvals are received;
* document all changes to the information system; and
* notify identified stakeholders when approved changes to the information system are completed.

The organization shall analyze changes to the information system in a separate test environment before implementation in an operational environment, looking for security impacts due to flaws, weaknesses, incompatibility, or intentional malice.

The organization shall employ automated mechanisms to maintain up-to-date, complete, accurate, and readily available baseline configuration of the information system.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The organization employs automated mechanisms to maintain up-to-date, complete, accurate, and readily available baseline configurations of the information system.

The service provider establishes a central means of communicating major changes to or developments in the information system or environment of operations that may affect its services to the federal government and associated service consumers (e.g., electronic bulletin board, web status page). The means of communication are approved and accepted by the Joint Authorization Board (JAB) and Authorizing Official (AO).

The organization employs automated mechanisms to enforce access restrictions and support auditing of the enforcement actions.

The information system prevents the installation of network, server and firmware components without verification that the component has been digitally signed using a certificate that is recognized and approved by the organization. If digital signatures/certificates are unavailable, alternative cryptographic integrity checks (hashes, self-signed certs, etc.) can be utilized.

The service provider uses the Center for Internet Security guidelines (Level 1) to establish configuration settings or establishes its own configuration settings if United States Government Configuration Baseline (USGCB) is not available; and ensures that checklists for configuration settings are Security Content Automation Protocol (SCAP) validated or SCAP compatible (if validated checklists are not available).

The organization requires the developer of the information system, system component, or information system service to enable integrity verification of software and firmware components.

**Level FTI Custodians Implementation Requirements Level FTI Custodians**

**Implementation:** All agency information systems used for receiving, processing, storing and transmitting FTI must be hardened (securely configured) using, when available for

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the specific technologies used, Safeguard Computer Security Evaluation Matrices (SCSEMs) publicly available on the Office of Safeguards IRS.gov Website, keyword: safeguards program. This requirement includes, but is not limited to:

* email servers and clients;
* integrated voice response (IVR) operating system (OS) and associated software for each system within the architecture providing FTI to a customer;
* mobile devices;
* multi-functional devices (MFDs);
* storage area network (SAN) components;
* virtual desktop infrastructure (VDI) components such as the hypervisor and management console;
* virtual machine (VM) and hypervisor/host OS software for each system within a virtual environment;
* voice over IP (VoIP) systems;
* each system within the architecture that receives, processes, stores or transmits FTI through a Web-based system or Website; and
* each system within the agency's network that transmits FTI through a wireless local area network (WLAN).

In particular, to use a virtual environment that receives, processes, stores or transmits FTI, the VMs and hypervisor/host operating system (OS) software for each system within the virtual environment that receives, processes, stores, or transmits FTI must be configured such that:

* special VM functions available to system administrators in a virtualized environment that can leverage the shared memory space in a virtual environment, between the hypervisor and VM, are disabled, and
* virtual systems are configured to prevent FTI from being dumped outside of the VM when system errors occur.

The organization shall provide a detailed definition of configurations and the functions of the hardware and software involved in a data warehouse.

To access FTI using a Web browser, the agency must meet the following mandatory requirements:

* private browsing must be enabled on the Web browser and configured to delete temporary files and cookies upon exiting the session;
* Security enhancements, such as pop-up blocker and content filtering, must be enabled on the Web browser;
* Configure the designated Web browser in accordance to the principle of least functionality and disable items, such as third-party add-ons.

**Level HIX Implementation Requirements Level HIX Implementation:**

Security configuration guidelines may be developed by different federal agencies, so it is possible that a guideline could include configuration information that conflicts with another agency or the organization's guideline. HHS-specific, minimum security configurations are used for the following Operating System (OS) and Applications: HHS FDCC Windows XP Standard, HHS FDCC Windows Vista Standard, Blackberry Server, and Websense; and, for all other OS's and

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applications, and to resolve configuration conflicts among multiple security guidelines, the organization uses the CMS hierarchy for implementing security configuration guidelines. If formal government-authored checklists do not exist, then organizations should use vendor or industry group guidance, if available. The organization also ensures checklists for configuration settings are Security Content Automation Protocol (SCAP) validated or SCAP compatible (if validated checklists are not available).

The organization analyzes changes to an information system in a separate test environment before implementation in an operational environment, looking for security impacts due to flaws, weaknesses, incompatibility, or intentional malice. Processing or storing of personally identifiable information (PII) in test environments is prohibited.

**Level PCI Implementation Requirements Level PCI Implementation:**

Upon completion of a significant change, all relevant PCI DSS requirements must be implemented on all new or changed systems and networks, and documentation updated as applicable.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 10.l Outsourced Software Development** | |
|  |  |  |
|  | **Control Specification:** | Outsourced software development shall be supervised and monitored by the |
|  |  |
|  |  | organization. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Documentation and Records; Media and Assets; Requirements (Legal and |
|  |  | Contractual); Services and Acquisitions |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to IRS Pub 1075 Compliance |
|  | **Regulatory Factors:** | Subject to MARS-E Requirements |
|  |  | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | Where software development is outsourced, the following points shall be |
|  |  |
|  |  | addressed contractually (either in a contract or Security Service Level |
|  |  | Agreement): |
|  |  | • licensing arrangements, code ownership, and intellectual property rights |
|  |  | (see 6.b); |
|  |  | • certification of the quality and accuracy of the work carried out; |

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|  |  |  |
| --- | --- | --- |
|  |  | • escrow arrangements in the event of failure of the third-party; |
|  |  | • rights of access for audit of the quality and accuracy of work done; |
|  |  | • contractual requirements for quality and security functionality of code; and |
|  |  | • testing before installation to detect malicious code. |
|  |  |  |
|  | **Level 1** | AICPA C1.1 |
|  | **Control Standard** | AICPA C1.4 |
|  | **Mapping:** | AICPA CC7.1 |
|  |  |
|  |  | AICPA CC7.4 |
|  |  | CMSRs 2013v2 SA-11 (HIGH) |
|  |  | CMSRs 2013v2 SA-13 (HIGH) |
|  |  | FedRAMP SA-11 |
|  |  | FFIEC IS v2016 A.6.28(b) |
|  |  | HIPAA § 164.308(b)(1) |
|  |  | HIPAA § 164.308(b)(3) |
|  |  | HIPAA § 164.314(a)(1) |
|  |  | HIPAA § 164.314(a)(2)(i) |
|  |  | HIPAA § 164.314(a)(2)(ii) |
|  |  | ISO 27799-2008 7.9.5 |
|  |  | ISO/IEC 27001:2013 8.1 |
|  |  | ISO/IEC 27002:2005 12.5.5 |
|  |  | ISO/IEC 27002:2013 14.2.7 |
|  |  | MARS-E v2 SA-11 |
|  |  | NIST Cybersecurity Framework DE.CM-4 |
|  |  | NIST Cybersecurity Framework ID.BE-1 |
|  |  | NIST Cybersecurity Framework ID.RA-3 |
|  |  | NIST Cybersecurity Framework ID.RA-6 |
|  |  | NIST Cybersecurity Framework PR.AT-3 |
|  |  | NIST SP 800-53 R4 SA-1 |
|  |  | NIST SP 800-53 R4 SA-11 |
|  |  | NIST SP 800-53 R4 SA-13 |
|  |  | NIST SP 800-53 R4 SA-15 |
|  |  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  |  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |

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|  |  |
| --- | --- |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The development of all outsourced software shall be supervised and monitored by |
|  | the organization and must include security requirements, independent security |
|  | review of the outsourced environment by a certified individual, certified security |
|  | training for outsourced software developers, and code reviews. |
|  | Certification for the purposes of this control shall be defined as a legally |
|  | recognized license or certification in the legislative jurisdiction that the |
|  | organization outsourcing the development has chosen as its domicile. |
|  | The organization shall protect against supply chain threats by employing best |
|  | practices and methodologies, such as including the security organization in all IT |
|  | procurement considerations. |
|  |  |
| **Level 2** | CMSRs 2013v2 SA-12 (HIGH) |
| **Control Standard** | CSA CCM v3.0.1 CCC-02 |
| **Mapping:** | FFIEC IS v2016 A.6.28(b) |
|  |
|  | FFIEC IS v2016 A.6.28(d) |
|  | FFIEC IS v2016 A.6.28(e) |
|  | ISO/IEC 27002:2005 12.5.5 |
|  | ISO/IEC 27002:2013 14.2.7 |
|  | NIST Cybersecurity Framework DE.CM-6 |
|  | NIST Cybersecurity Framework PR.AT-3 |
|  | NIST SP 800-53 R4 SA-12 |
|  | NIST SP 800-53 R4 SA-15 |
|  |  |

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall protect against supply chain threats by employing best practices and methodologies, wherever possible, selecting components that have been previously reviewed by other government entities (e.g., National Information Assurance Partnership [NIAP]) as part of a comprehensive, defense-in-breadth information security strategy.

The organization shall require that all information systems meet a level of security functionality and security assurance that is sufficient to preserve the confidentiality, integrity, and availability of the information being processed, stored, or transmitted by the system by establishing system trustworthiness objectives as part of the security authorization by following the CMS eXpedited

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Life Cycle (XLC).

**Objective Name: 10.06 Technical Vulnerability Management**

**Control**

**Objective:** To reduce the risks resulting from exploitation of published technical vulnerabilities, technical vulnerability management shall be implemented in an

effective, systematic, and repeatable way with measurements taken to

|  |  |
| --- | --- |
| **Control Reference: 10.m Control of Technical Vulnerabilities** | |
|  |  |
| **Control Specification:** | Timely information about technical vulnerabilities of information systems being |
|  |
|  | used shall be obtained; the organization's exposure to such vulnerabilities |
|  | evaluated; and appropriate measures taken to address the associated risk. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Incident Response; IT Organization and Management Roles and Responsibilities; |
|  | Risk Management and Assessments |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to State of Massachusetts Data Protection Act |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | Specific information needed to support technical vulnerability management |
|  |
|  | includes the software vendor, version numbers, current state of deployment (e.g., |
|  | what software is installed on what systems) and the person(s) within the |
|  | organization responsible for the software. |
|  | Appropriate, timely action shall be taken in response to the identification of |
|  | potential technical vulnerabilities. Once a potential technical vulnerability has |
|  | been identified, the organization shall identify the associated risks and the actions |
|  | to be taken. Such action shall involve patching of vulnerable systems and/or |
|  | applying other controls. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 201 CMR 17.04(6) |
| **Mapping:** | AICPA CC5.8 |
|  |
|  | AICPA CC6.1 |
|  | AICPA CC7.2 |
|  |  |

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AICPA CC7.3

CIS CSC v6 11.5

CIS CSC v6 4.5

CMSRs 2013v2 RA-5 (HIGH)

CRR V2016 VM:G2.Q1

CRR V2016 VM:G2.Q2

CRR V2016 VM:G2.Q5

CRR V2016 VM:MIL2.Q4

CRR V2016 VM:MIL3.Q4

CSA CCM v3.0.1 TVM-02

FedRAMP RA-5

FFIEC IS v2016 A.4.4

FFIEC IS v2016 A.6.13

FFIEC IS v2016 A.6.13

FFIEC IS v2016 A.6.27(d)

FFIEC IS v2016 A.8.3

IRS Pub 1075 v2014 9.3.5.6

ISO/IEC 27002:2005 12.6.1

ISO/IEC 27002:2013 12.6.1

MARS-E v2 RA-5

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework ID.RA-2

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-6

NIST Cybersecurity Framework RS.MI-3

NIST SP 800-53 R4 RA-5

PMI DSP Framework PR.IP-2

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** |  |
|  |  |  |

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**Regulatory Factors:**

**Level 2 Implementation:**

Level 1 plus:

The organization shall define and establish the roles and responsibilities associated with technical vulnerability management, including vulnerability monitoring, vulnerability risk assessment, patching, asset tracking, and any coordination responsibilities required.

Information resources (including tools and vulnerability mailing lists/other information sources), that will be used to identify relevant technical vulnerabilities and to maintain awareness about them, shall be identified for software and other technology (based on the asset inventory list, see 7.a). These information resources shall be updated based on changes in the inventory, or when other new or useful resources are found.

Internal and external vulnerability assessments of sensitive information systems (e.g., systems containing covered information, cardholder data) and networked environments shall be performed on a quarterly basis, and after any significant change in the network (e.g., new system component installations, changes in network topology, firewall rule modifications, product upgrades), by a qualified individual. These tests shall include both network- and application-layer tests.

Security vulnerability assessment tools or services shall accommodate the virtualization technologies used by the organization (e.g., virtualization aware).

The action taken shall be carried out according to the controls related to change management (see 10.k) or by following information security incident response procedures (see 11.c).

If a patch is available, change control procedures for the implementation of security patches and software modifications shall be followed (see 09.b). This shall include assessing the risks associated with installing the patch (i.e., the risks posed by the vulnerability should be compared with the risk of installing the patch). Patches shall be tested and evaluated before they are installed to ensure they are effective and do not result in side effects that cannot be tolerated.

If no patch is available, is delayed, or not applied, other controls shall be applied including:

* documentation of impact;
* documented change approval by authorized parties;
* functionality testing to verify that the change does not adversely impact the security of the system;
* back-out procedures;
* turning off services or capabilities related to the vulnerability;
* adapting or adding access controls (e.g., firewalls) at network borders (see 9.m);
* increased monitoring to detect or prevent actual attacks; and
* raising awareness of the vulnerability.

An audit log shall be kept for all procedures undertaken.

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|  |  |
| --- | --- |
|  | Establish a process to identify and assign a risk ranking to newly discovered |
|  | security vulnerabilities. The risk ranking shall consider the CVSS score, |
|  | classification of the vendor supplied patch, and/or the classification and criticality |
|  | of the affected system. The technical vulnerability management process shall be |
|  | evaluated on a quarterly basis in order to ensure its effectiveness and efficiency. |
|  | Systems at high risk shall be addressed first. |
|  | The configuration standards shall be required by CSF control 10.k for all system |
|  | components (e.g., workstations, databases, servers, operating systems, |
|  | applications, routers, switches, wireless access points). The standards shall be |
|  | hardened to address, to the extent practical, all known security vulnerabilities. In |
|  | particular, laptops, workstations, and servers are configured so they will not auto- |
|  | run content from removable media (e.g., USB tokens, i.e., thumb drives; USB |
|  | hard drives; CDs/DVDs; FireWire devices; external serial advanced technology |
|  | attachment devices; and mounted network shares). |
|  | The organization's configuration standards shall be consistent with industry- |
|  | accepted system hardening standards, including: |
|  | • Center for Internet Security (CIS) |
|  | • International Organization for Standardization (ISO) |
|  | • SysAdmin Audit Network Security (SANS) |
|  | • National Institute of Standards Technology (NIST) |
|  | Enable only necessary and secure services, protocols, daemons, etc., as required |
|  | for the function of the system. Implement security features for any required |
|  | services, protocols or daemons that are considered to be insecure (e.g., use |
|  | secured technologies such as SSH, S-FTP, TLS 1.1 or later, or IPSec VPN to |
|  | protect insecure services such as NetBIOS, file-sharing, Telnet, FTP, etc.). |
|  | The organization conducts both internal and external penetration testing, within |
|  | every three hundred sixty-five (365) days, on defined information systems or |
|  | system components. |
|  | A prioritization process is implemented to determine which patches are applied |
|  | across the organizations systems. |
|  | Patches installed in the production environment are also installed in the |
|  | organizations disaster recovery environment in a timely manner. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.05 |
| **Mapping:** | 23 NYCRR 500.05(b) |
|  |
|  | CIS CSC v6 15.1 |
|  | CIS CSC v6 3.1 |
|  | CIS CSC v6 4.8 |
|  | CIS CSC v6 8.3 |
|  | CMSRs 2013v2 CM-6 (HIGH) |
|  | CMSRs 2013v2 CM-7 (HIGH) |
|  | CMSRs 2013v2 RA-5 (HIGH) |
|  | CRR V2016 CCM:G2.Q7 |
|  |  |

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CRR V2016 VM:G1.Q1

CRR V2016 VM:G1.Q2

CRR V2016 VM:G1.Q5

CRR V2016 VM:G2.Q4

CRR V2016 VM:G2.Q5

CRR V2016 VM:G3.Q1

CRR V2016 VM:G3.Q2

CRR V2016 VM:G3.Q3

CRR V2016 VM:G4.Q1

CRR V2016 VM:MIL2.Q2

CRR V2016 VM:MIL2.Q4

CRR V2016 VM:MIL3.Q2

CRR V2016 VM:MIL3.Q4

CRR V2016 VM:MIL4.Q1

CRR V2016 VM:MIL4.Q2

CSA CCM v3.0.1 IVS-05

FedRAMP CM-6

FedRAMP RA-5

FFIEC IS v2016 A.10.1

FFIEC IS v2016 A.10.3(c)

FFIEC IS v2016 A.4.4

FFIEC IS v2016 A.6.13

FFIEC IS v2016 A.6.15(a)

FFIEC IS v2016 A.6.15(b)

FFIEC IS v2016 A.6.15(c)

FFIEC IS v2016 A.6.15(d)

FFIEC IS v2016 A.6.15(d)

FFIEC IS v2016 A.6.15(d)

FFIEC IS v2016 A.6.15(e)

FFIEC IS v2016 A.6.15(f)

FFIEC IS v2016 A.6.15(h)

FFIEC IS v2016 A.6.27(d)

FFIEC IS v2016 A.8.1(c)

FFIEC IS v2016 A.8.3

FFIEC IS v2016 A.8.4

IRS Pub 1075 v2014 9.3.14.3

IRS Pub 1075 v2014 9.3.5.6

IRS Pub 1075 v2014 9.3.5.7

ISO 27799-2008 7.9.5

ISO/IEC 27002:2005 12.6.1

ISO/IEC 27002:2013 12.6.1

MARS-E v2 CM-6

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MARS-E v2 CM-7

MARS-E v2 RA-5

NIST Cybersecurity Framework DE.CM-8

NIST Cybersecurity Framework DE.DP-5

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework ID.RA-2

NIST Cybersecurity Framework ID.RA-5

NIST Cybersecurity Framework PR.IP-12

NIST Cybersecurity Framework PR.PT-1

NIST Cybersecurity Framework RS.CO-3

NIST Cybersecurity Framework RS.MI-3

NIST SP 800-53 R4 CM-6

NIST SP 800-53 R4 CM-7

NIST SP 800-53 R4 RA-5

NIST SP 800-53 R4 SI-5

PCI DSS v3.2 11.2

PCI DSS v3.2 11.2.1

PCI DSS v3.2 11.2.2

PCI DSS v3.2 11.2.3

PCI DSS v3.2 2.2

PCI DSS v3.2 2.2.2

PCI DSS v3.2 2.2.3

PCI DSS v3.2 6.1

PCI DSS v3.2 6.4.5

PCI DSS v3.2 6.4.5.1

PCI DSS v3.2 6.4.5.2

PCI DSS v3.2 6.4.5.3

PCI DSS v3.2 6.4.5.4

PMI DSP Framework PR.IP-2

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |

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|  |  |  |
| --- | --- | --- |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to Banking Requirements |
|  |  | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | Perform an enterprise security posture review annually. |
|  |  | The organization shall employ automated mechanisms monthly to determine the |
|  |  | state of information system components with regard to flaw remediation. |
|  |  | Vulnerability scanning tools shall be updated regularly with all relevant information |
|  |  | system vulnerabilities. The organization scans for vulnerabilities in the information |
|  |  | system and hosted applications within every thirty (30) days and when new |
|  |  | vulnerabilities potentially affecting the systems and networked environments are |
|  |  | identified and reported. |
|  |  | The organization updates the list of information system vulnerabilities scanned at |
|  |  | least weekly and when new vulnerabilities potentially affecting the systems and |
|  |  | networked environments are identified and reported. |
|  |  | The organization includes privileged access authorization to operating system, |
|  |  | telecommunications, and configuration components for selected vulnerability |
|  |  | scanning activities, to facilitate more thorough scanning. |
|  |  | The organization conducts regular penetration testing, no less than every three |
|  |  | hundred sixty-five (365) days on defined information systems or system |
|  |  | components, to identify vulnerabilities and attack vectors that can be used to |
|  |  | successfully exploit enterprise systems. Penetration testing occurs from outside |
|  |  | the network perimeter (i.e., the Internet or wireless frequencies around an |
|  |  | organization), as well as from within its boundaries (i.e., on the internal network), |
|  |  | to simulate both outsider and insider attacks. |
|  |  | This includes tests for the presence of unprotected system information and |
|  |  | artifacts that would be useful to attackers, including network diagrams, |
|  |  | configuration files, older penetration test reports, emails or documents containing |
|  |  | passwords or other information critical to system operation. |
|  |  | The organization conducts regular penetration testing, no less than every three |
|  |  | hundred sixty-five (365) days, on defined information systems or system |
|  |  | components to identify vulnerabilities and attack vectors that can be used to |
|  |  | successfully exploit enterprise systems. Penetration testing occurs from outside |
|  |  | the network perimeter (i.e., the Internet or wireless frequencies around an |
|  |  | organization) as well as from within its boundaries (i.e., on the internal network) to |

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|  |  |
| --- | --- |
|  | simulate both outsider and insider attacks. This includes tests for the presence of |
|  | unprotected system information and artifacts that would be useful to attackers, |
|  | including network diagrams, configuration files, older penetration test reports, |
|  | emails or documents containing passwords or other information critical to system |
|  | operation. The organization employs an independent penetration agent or |
|  | penetration team to perform penetration testing on the information system or |
|  | system components. |
|  | The organization employs vulnerability scanning procedures that can identify the |
|  | breadth and depth of coverage (i.e., information system components scanned and |
|  | vulnerabilities checked). |
|  | The organization reviews historic audit logs to determine high vulnerability scan |
|  | findings identified in the information system has been previously exploited. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.05(a) |
| **Mapping:** | CIS CSC v6 20.3 |
|  |
|  | CIS CSC v6 20.5 |
|  | CIS CSC v6 20.6 |
|  | CIS CSC v6 20.7 |
|  | CIS CSC v6 20.8 |
|  | CIS CSC v6 3.1 |
|  | CIS CSC v6 4.1 |
|  | CIS CSC v6 4.2 |
|  | CIS CSC v6 4.3 |
|  | CIS CSC v6 4.4 |
|  | CIS CSC v6 4.5 |
|  | CIS CSC v6 4.6 |
|  | CIS CSC v6 4.7 |
|  | CMSRs 2013v2 CA-2 (HIGH) |
|  | CMSRs 2013v2 CA-8 (HIGH) |
|  | CMSRs 2013v2 RA-5 (HIGH) |
|  | CMSRs 2013v2 RA-5(1) (HIGH) |
|  | CMSRs 2013v2 RA-5(2) (HIGH) |
|  | CMSRs 2013v2 RA-5(4)(HIGH) |
|  | CMSRs 2013v2 RA-5(5) (HIGH) |
|  | CMSRs 2013v2 SI-2 (HIGH) |
|  | CMSRs 2013v2 SI-2(1) (HIGH) |
|  | CMSRs 2013v2 SI-2(2) (HIGH) |
|  | COBIT 4.1 DS5.9 |
|  | COBIT 5 DSS05.02 |
|  | CRR V2016 VM:G2.Q2 |
|  | CRR V2016 VM:G2.Q3 |
|  | CSA CCM v3.0.1 TVM-02 |
|  |  |

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FedRAMP CA-8 FedRAMP CA-8(1)

FedRAMP RA-5

FedRAMP RA-5(1)

FedRAMP RA-5(3)

FedRAMP RA-5(5)

FedRAMP RA-5(8)

FedRAMP SI-2

FedRAMP SI-2(2)

FFIEC IS v2016 A.8.1(d)

HIPAA § 164.308(a)(8)

IRS Pub 1075 v2014 9.3.14.3

IRS Pub 1075 v2014 9.3.17.2

IRS Pub 1075 v2014 9.4.14

IRS Pub 1075 v2014 9.4.15

IRS Pub 1075 v2014 9.4.16

IRS Pub 1075 v2014 9.4.17

IRS Pub 1075 v2014 9.4.9

MARS-E v2 CA-2

MARS-E v2 PE-2(2)

MARS-E v2 RA-5

MARS-E v2 RA-5(1)

MARS-E v2 RA-5(5)

MARS-E v2 SI-2

MARS-E v2 SI-2(1)

MARS-E v2 SI-2(2)

NIST Cybersecurity Framework DE.CM-8

NIST Cybersecurity Framework ID.RA-1

NIST Cybersecurity Framework PR.PT-3

NIST Cybersecurity Framework RS.MI-3

NIST SP 800-53 R4 CA-2

NIST SP 800-53 R4 CA-7

NIST SP 800-53 R4 CA-8

NIST SP 800-53 R4 RA-5

NIST SP 800-53 R4 RA-5(1)

NIST SP 800-53 R4 RA-5(2)

NIST SP 800-53 R4 RA-5(4)

NIST SP 800-53 R4 RA-5(5)

NIST SP 800-53 R4 SI-2

NIST SP 800-53 R4 SI-2(1)

NIST SP 800-53 R4 SI-2(2)

NRS 603A.215.1

PCI DSS v3.2 11.3

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PCI DSS v3.2 11.3.1

PCI DSS v3.2 11.3.2

PCI DSS v3.2 11.3.3

PCI DSS v3.2 11.3.4

PCI DSS v3.2 6.2

**Level CIS Implementation Requirements Level CIS Implementation:**

Organizations shall install the latest stable version of any security-related updates on all network devices.

Patches are applied to all systems, even systems that are properly air gapped.

The organization performs periodic Red Team exercises to test organizational readiness to identify and stop attacks or to respond quickly and effectively.

The organization provides clear goals for penetration tests, e.g., to address blended attacks and identify potential goal machines or target assets. The organization's testing addresses APT-style attacks deploying multiple vectors, often social engineering combined with Web or network exploitation. The organization's Red Team manual or automated testing also captures pivoted and multi-vector attacks to provide a more realistic assessment of security posture and risk to critical assets.

The organization uses vulnerability scanning and penetration testing tools in concert. The results of vulnerability scanning assessments should be used as a starting point to guide and focus penetration testing efforts.

The organization ensures, wherever possible, that Red Team results are documented using open, machine-readable standards (e.g., SCAP) and devises a scoring method for determining the results of Red Team exercises, so that results can be compared over time.

Create a test bed that mimics a production environment for specific penetration tests and Red Team attacks against elements that are not typically tested in production, such as attacks against supervisory control and data acquisition and other control systems.

The organization ensures new vulnerabilities and threats are addressed when updating secure system (component) standards and images (see also 10.k).

Vulnerability scanning is performed in authenticated mode either with local agents running on each endpoint to analyze the security configuration or with remote scanners that are given administrative rights on the system being tested. A dedicated account, which is tied to specific machines at specific IP addresses and not used for any other administrative activities, is used for authenticated vulnerability scans.

Only authorized employees have access to vulnerability management tools and/or the management interface, and roles are applied to each user.

The organization correlates event logs with information from its vulnerability

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scanning tools to verify the activity of the regular vulnerability scanning tools is itself logged and whether a given exploit was used against a target known by the organization to be vulnerable.

The organization uses automated patch management tools and software update tools for the operation system and/or software/applications on all information systems for which such tools are available and determined to be safe.

The organization monitors logs associated with any scanning activity and associated administrator accounts to ensure this activity is limited to the timeframes of legitimate scans.

The organization compares the results from back-to-back vulnerability scans to verify that vulnerabilities were addressed either by patching, implementing a compensating control, or documenting and accepting a reasonable business risk. Such acceptance of business risks for existing vulnerabilities are periodically reviewed to determine if newer compensating controls or subsequent patches can address vulnerabilities that were previously accepted, or if conditions have changed, increasing the risk.

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall correct identified information system flaws on production equipment within ten (10) business days and all others within thirty (30) calendar days.

1. risk-based decision is documented through the configuration management process in the form of written authorization from the CMS CIO, or his/her designated representative (e.g., the system data owner or CMS CISO), if a security patch is not applied to a security-based system or network.

For critical infrastructure and systems (e.g., public-facing, internet accessible), critical security patches shall be applied within one (1) month of release. For less-critical infrastructure and systems (e.g., only accessible internally) or for non-critical security patches, patches shall be applied within three (3) months of release.

The organization shall attempt to determine what information about the information system environment is discernible by adversaries and subsequently takes appropriate corrective action to limit discoverable system information.

The organization shall centrally manage the flaw remediation process and shall install software updates, automatically where possible.

Conduct an enterprise security posture review as needed but no less than once within every three-hundred-sixty-five (365) days, in accordance with organizational IS procedures.

**Level FedRAMP Implementation Requirements**

|  |  |
| --- | --- |
| **Level FedRAMP** | The organization mitigates legitimate high-risk vulnerabilities within thirty (30) |
| **Implementation:** |

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days and moderate risk vulnerabilities within ninety (90) days.

The organization updates the list of information system vulnerabilities scanned prior to a new scan or when new vulnerabilities are identified and reported.

The organization includes privileged access authorization to operating systems, web applications, databases, telecommunications, and configuration components for selected vulnerability scanning activities to facilitate more thorough scanning.

The organization requires the developer of the information system, system component, or information system service to employ static and dynamic code analysis tools to identify common flaws and document the results of the analysis.

The organization requires the developer of the information system, system component, or information system service to perform threat and vulnerability analyses and subsequent testing/evaluation of the as-built system, component, or service.

The organization installs security-relevant software and firmware updates within thirty (30) days of release of the updates and incorporates flaw remediation into the organizational configuration management process.

The organization measures the time between flaw identification and flaw remediation and further a specific time-period based on the criticality of the flaw for taking corrective actions.

The organization employs automated mechanisms to compare the results of vulnerability scans over time to determine trends in information system vulnerabilities.

**Level FFIEC IS Implementation Requirements**

**Level FFIEC IS Implementation:**

The organization conducts both internal and external penetration testing as needed but no less than once within every three-hundred-sixty-five (365) days, in accordance with the organizations information security procedures and results are reported to management.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

At a minimum, systems containing FTI shall be scanned quarterly to identify any vulnerability in the information system.

Multifunction Device (MFD) firmware is supported by the vendor and is kept up to date with the most current firmware available.

Vulnerability assessments must be performed on systems in a virtualized environment prior to system implementation and frequently thereafter.

To use a VoIP network that provides FTI to a customer, each system within the agency's network that transmits FTI to an external customer through the VoIP

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network is subject to frequent vulnerability testing.

To use an external Web-based system or Website that provides FTI over the Internet to a customer, the agency must ensure each system within the architecture that receives, processes, stores, or transmits FTI to an external customer through the Web-based system or Website is subject to frequent vulnerability testing

To access FTI using a Web browser, the agency must install vendor-specified security patches and hot fixes regularly for the Web browser, add-ons, and Java.

To use FTI in an 802.11 WLAN, the agency must conduct vulnerability scanning as part of periodic technical security assessments for the organization's WLAN.

**Level HIX Implementation Requirements Level HIX Implementation:**

Perform external network penetration testing and conduct an enterprise security posture review as needed but no less than once within every three-hundred-sixty-five (365) days, in accordance with organizational information security procedures.

The organization mitigates legitimate high-risk vulnerabilities within thirty (30)

days and moderate risk vulnerabilities within ninety (90) days.

The organization requires the developer of the information system, system component, or information system service to employ static code analysis tools to identify common flaws and document the results of the analysis as part of its authorization package (see also 09.i), and updates the report in any reauthorization action.

The organization installs security-relevant software and firmware updates on production equipment within a timeframe based on the National Vulnerability Database (NVD) Vulnerability Severity Rating of the flaw as follows: High severity within seven (7) calendar days, medium severity within fifteen (15) calendar days, and all others within thirty (30) calendar days. The organization incorporates flaw remediation into the organizational configuration management process, with risk-based decisions if a security patch is not applied to a security-based system or network authorized by the organization.

**Level PCI Implementation Requirements Level PCI Implementation:**

Perform quarterly internal vulnerability scans and rescans, which may be automated, manual, or a combination thereof, as needed, until all "high-risk" vulnerabilities are resolved in accordance with the organization's vulnerability rankings. Scans must be performed by qualified personnel.

Perform quarterly external vulnerability scans, via an Approved Scanning Vendor (ASV) approved by the Payment Card Industry Security Standards Council (PCI SSC). Perform rescans as needed, until passing scans are achieved.

Perform internal and external scans, and rescans as needed, after any significant

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change. Scans must be performed by qualified personnel.

Implement a methodology for penetration testing that:

* is based on industry-accepted penetration testing approaches (e.g., NIST SP 800-115);
* includes coverage for the entire card data environment (CDE) perimeter and critical systems;
* includes testing from both inside and outside the network;
* includes testing to validate any segmentation and scope-reduction controls;
* defines application-layer penetration tests to include, at a minimum, the vulnerabilities identified in 10.b, level 1 (reference PCI DSS v3 6.5);
* defines network-layer penetration tests to include components that support network functions as well as operating systems;
* includes review and consideration of threats and vulnerabilities experienced in the last 12 months; and
* specifies retention of penetration testing results and remediation activities results.

If segmentation is used to isolate the CDE from other networks, perform penetration tests at least annually and after any changes to segmentation controls/methods to verify that the segmentation methods are operational and effective, and isolate all out-of-scope systems from in the CDE. For organizations assessed as a service provider, penetration testing on segmentation controls are performed at least every six (6) months and after any changes to segmentation controls/methods.

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**Control Category: 11.0 - Information Security Incident Management**

**Objective Name: 11.01 Reporting Information Security Incidents and Weaknesses**

**Control**

**Objective:** To ensure information security events and weaknesses associated with information systems are handled in a manner allowing timely corrective action to be taken.

|  |  |  |
| --- | --- | --- |
|  | **Control Reference: 11.a Reporting Information Security Events** | |
|  |  |  |
|  | **Control Specification:** | Information security events shall be reported through appropriate communications |
|  |  |
|  |  | channels as quickly as possible. All employees, contractors and third-party users |
|  |  | shall be made aware of their responsibility to report any information security events |
|  |  | as quickly as possible. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Incident Response; IT Organization and Management |
|  |  | Roles and Responsibilities; Personnel; Policies and Procedures; Risk Management |
|  |  | and Assessments; Third Parties and Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to State of Massachusetts Data Protection Act |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | Formal information security event reporting procedures to support the corporate |
|  |  |
|  |  | direction (policy) shall be established, together with an incident response and |
|  |  | escalation procedure, setting out the action to be taken on receipt of a report of an |
|  |  | information security event, treating the breach as discovered, and the timeliness of |
|  |  | reporting and response. Organization-wide standards are specified for the time |
|  |  | required for system administrators and other personnel to report anomalous events |
|  |  | to the incident handling team, the mechanisms for such reporting, and the kind of |
|  |  | information that should be included in the incident notification. This reporting should |
|  |  | also include notifying internal and external stakeholders, the appropriate Community |
|  |  | Emergency Response Team, and law enforcement agencies in accordance with all |
|  |  | legal or regulatory requirements for involving that organization in computer |
|  |  | incidents. With the importance of Information Security Incident Handling, a policy |
|  |  | shall be established to set the direction of management. |
|  |  | A point of contact shall be established for the reporting of information security |
|  |  | events. It shall be ensured that this point of contact is known throughout the |

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organization, is always available, and is able to provide adequate and timely response. The organization also maintains a list of third-party contact information (e.g., the email addresses of their information security offices), which can be used to report a security incident.

Employees and other workforce members, including third parties, are able to freely report security weaknesses (real and perceived) without fear of repercussion.

|  |  |  |  |
| --- | --- | --- | --- |
|  | The organization shall implement an insider threat program that includes a cross- | | |
|  | discipline insider threat incident handling team. | | |
|  | Organizations shall ensure workforce members do not interfere with federal or state | | |
|  | investigations or disciplinary proceedings by willful misrepresentation or omission of | | |
|  | facts or by the use of threats or harassment against any person. Organizations shall | | |
|  | ensure violations of these requirements are incorporated into disciplinary | | |
|  | procedures (see 02.f). | | |
|  |  | | |
| **Level 1** | 1 TAC § 390.2(a)(1) | | |
| **Control Standard** | 1 TAC § 390.2(a)(2) | | |
| **Mapping:** | 1 | TAC § 390.2(a)(4)(A)(ix) | |
|  |
|  | 1 | TAC § 390.2(a)(4)(A)(xi) | |
|  | 1 | TAC § 390.2(a)(4)(B)(xvi) | |
|  | 1 | TAC § 390.2(a)(4)(B)(xviii)(III) | |
|  | 1 | TAC § 390.2(a)(4)(B)(xviii)(IV) | |
|  | 201 CMR 17.03(2)(j) | | |
|  | 23 | | NYCRR 500.02(b)(3) |
|  | 23 | | NYCRR 500.02(b)(6) |
|  | 23 | | NYCRR 500.16(a) |
|  | 23 | | NYCRR 500.16(b)(1) |
|  | 23 | | NYCRR 500.16(b)(2) |
|  | 23 | | NYCRR 500.16(b)(6) |

AICPA CC2.5

AICPA CC6.2

CIS CSC v6 19.4

CIS CSC v6 19.5

CMSRs 2013v2 IR-1 (HIGH)

CMSRs 2013v2 PM-12 (HIGH)

CRR V2016 IM:G1.Q1

CRR V2016 IM:G3.Q1

CRR V2016 IM:G3.Q2

CRR V2016 IM:G4.Q2

CRR V2016 IM:MIL2.Q2

CSA CCM v3.0.1 SEF-03

FedRAMP IR-1

FFIEC IS v2016 A.6.21(b)

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FFIEC IS v2016 A.8.1(j)

FFIEC IS v2016 A.8.5(a)

FFIEC IS v2016 A.8.5(d)

FFIEC IS v2016 A.8.5(e)

FFIEC IS v2016 A.8.5(f)

FFIEC IS v2016 A.8.5(g)

GDPR Article 32(1)(a)

HIPAA § 164.308(a)(1)(ii)(C)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(6)(i)

HIPAA § 164.308(a)(6)(ii)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.404(a)(2)

HIPAA § 164.410(a)(1)

HIPAA § 164.410(a)(2)

IRS Pub 1075 v2014 9.3.8.1

ISO/IEC 27002:2005 13.1

ISO/IEC 27002:2005 13.1.1

ISO/IEC 27002:2005 13.1.2

ISO/IEC 27002:2013 16.1.1

ISO/IEC 27002:2013 16.1.2

ISO/IEC 27002:2013 16.1.3

MARS-E v2 IR-1

MARS-E v2 PM-12

NIST Cybersecurity Framework PR.IP-11

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RS.CO-2

NIST Cybersecurity Framework RS.CO-3

NIST Cybersecurity Framework RS.CO-5

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 IR-4(7)

NIST SP 800-53 R4 PM-12

PCI DSS v3.2 12.10

PCI DSS v3.2 12.10.3

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework DE-4

PMI DSP Framework RS-1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |

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|  |  |  |
| --- | --- | --- |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to Banking Requirements |
|  |  | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The policy shall refer to the specific procedures and programs to address incidents |
|  |  | and also refer to a forensic program. The organization shall institute a mechanism to |
|  |  | anonymously report security issues. Procedures shall be developed to provide for |
|  |  | the definition and assessment of information security incidents (e.g., an |
|  |  | event/incident classification scale to decide whether an event classifies as an |
|  |  | incident), roles and responsibilities, incident handling, and reporting and |
|  |  | communication processes. The organization formally assigns job titles and duties for |
|  |  | handling computer and network security incidents to specific individuals and |
|  |  | identifies management personnel who will support the incident handling process by |
|  |  | acting in key decision-making roles. The procedures shall also state the |
|  |  | requirements for an incident handling team to address regulatory requirements, |
|  |  | third-party relationships, and the handling of third-party security breaches. Reports |
|  |  | and communications shall be made without unreasonable delay and no later than |
|  |  | sixty (60) days after the discovery of the incident, unless otherwise stated by law |
|  |  | enforcement in writing or orally. If the statement is made in writing, the notification |
|  |  | shall be delayed for the time specified by the official. If the statement is made orally, |
|  |  | the organization shall document the statement, including the identity of the official |
|  |  | making the statement, and delay the notification temporarily and no longer than |
|  |  | thirty (30) days from the date of the oral statement, unless a written statement from |
|  |  | a law enforcement official is submitted during that time. |
|  |  | All employees, contractors and third-party users shall receive mandatory incident |
|  |  | response training to ensure they are aware of their responsibilities to report any |
|  |  | information security events as quickly as possible, the procedure for reporting |
|  |  | information security events and the point(s) of contact, including the incident |

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response team, and the contact information shall be published and made readily available.

The reporting procedures shall include:

* feedback processes to ensure that those reporting information security events are notified of results after the issue has been dealt with and closed;
* information security event reporting forms to support the reporting action, and to help the person reporting to remember all necessary actions in case of an information security event including:
  + the correct behavior to be undertaken in case of an information security event and immediately noting all important details (e.g., type of non-compliance or breach) occurring malfunction, messages on the screen, strange behavior; and
  + not carrying out any own action, but immediately reporting to the point of contact;
* reference to an established formal disciplinary process for dealing with employees, contractors or third-party users who commit security breaches;
* communication with each individual affected by, or who is reasonably believed to have been affected by, the incident;
* communication with business associate(s) identifying each individual affected by, or who is reasonably believed to have been affected by, the incident;
* communicating incidents to local and federal law enforcement agencies; and
* automated workflow processes for incident management, reporting and

resolution.

Reports to external organizations, individuals or federal or state agencies shall include:

* a brief description of what happened;
* the date of the breach;
* the date of the discovery of the breach;
* a description of the types of information that were involved in the breach (e.g., full name, Social Security number, date of birth, home address, account number, disability code);
* the recommended steps external entities should take to protect themselves from potential harm resulting from the breach;
* a brief description of the steps the organization is taking to:
  + investigate the breach,
  + mitigate damages, and
  + protect against any further breaches
* contact procedures to ask questions or learn additional information, which shall include:
  + a toll-free telephone number,
  + an email address,
  + Web site, or
  + postal address.

Reports to the individuals affected by the incident shall be provided with notification by first-class mail to the individual (or the next of kin of the individual if the individual is deceased) at the last known address of the individual or the next of kin, respectively, or by electronic mail if specified as a preference by the individual. Organizations may provide notifications by telephone in cases deemed urgent by

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|  |  |
| --- | --- |
|  | the organization. In the case that there are ten (10) or more individuals for whom |
|  | there is insufficient or out-of-date contact information (including a phone number, |
|  | email address, or any other form of appropriate communication), a conspicuous |
|  | posting shall be placed on the home page of the Web site of the organization |
|  | involved for a period of ninety (90) days. A toll-free phone number that remains |
|  | active for at least ninety (90) days shall also be posted where an individual can learn |
|  | whether the individuals information may be included in the breach. For fewer than |
|  | ten (10) individuals, a substitute form of notice reasonably calculated to reach the |
|  | individual shall be provided, except when there is insufficient or out-of-date |
|  | information that precludes written notification to the next of kin or personal |
|  | representative. The organization shall also notify, without unreasonable delay, any |
|  | consumer reporting agency of the time the notification is distributed and the content |
|  | of the notification. |
|  | If more than five hundred (500) residents of such State or jurisdiction were, or are |
|  | reasonably believed to have been, affected by the breach, notice shall be |
|  | immediately provided to the federal government (to publicly disclose) and prominent |
|  | media outlets. |
|  | The notification to individuals shall be written in plain language (e.g., at an |
|  | appropriate reading level, using clear language and syntax, and should not include |
|  | any extraneous material that might diminish the message it is trying to convey). |
|  | Alerts from the organization's intrusion-detection and intrusion-prevention systems |
|  | shall be utilized for reporting information security events. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.16(b)(3) |
| **Mapping:** | 23 NYCRR 500.16(b)(4) |
|  |
|  | CIS CSC v6 19.1 |
|  | CIS CSC v6 19.2 |
|  | CIS CSC v6 19.3 |
|  | CIS CSC v6 19.6 |
|  | CMSRs 2013v2 IR-1 (HIGH) |
|  | CMSRs 2013v2 IR-2 (HIGH) |
|  | CMSRs 2013v2 IR-4 (HIGH) |
|  | CMSRs 2013v2 IR-6 (HIGH) |
|  | CMSRs 2013v2 IR-6(1) (HIGH) |
|  | CMSRs 2013v2 PM-12 (HIGH) |
|  | COBIT 4.1 DS5.6 |
|  | COBIT 5 DSS02.01 |
|  | COBIT 5 DSS05.07 |
|  | CRR V2016 IM:G1.Q3 |
|  | CRR V2016 IM:G1.Q4 |
|  | CRR V2016 IM:G2.Q1 |
|  | CRR V2016 IM:G3.Q2 |
|  | CRR V2016 IM:G4.Q1 |
|  |  |

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CRR V2016 IM:G4.Q2

CRR V2016 IM:G4.Q3

CRR V2016 IM:G4.Q4

CRR V2016 IM:MIL2.Q1

CRR V2016 IM:MIL2.Q3

CRR V2016 IM:MIL3.Q1

CRR V2016 IM:MIL3.Q2

CRR V2016 IM:MIL4.Q1

CRR V2016 IM:MIL4.Q3

CRR V2016 IM:MIL5.Q1

CSA CCM v3.0.1 SEF-02

CSA CCM v3.0.1 SEF-03

CSA CCM v3.0.1 SEF-04

De-ID Framework v1 Data Breach Response: General

FedRAMP IR-1

FedRAMP IR-4

FedRAMP IR-6

FedRAMP IR-6(1)

FFIEC IS v2016 A.6.21(b)

FFIEC IS v2016 A.6.31(f)

FFIEC IS v2016 A.8.1(b)

FFIEC IS v2016 A.8.1(j)

FFIEC IS v2016 A.8.5(a)

FFIEC IS v2016 A.8.5(b)

FFIEC IS v2016 A.8.5(d)

FFIEC IS v2016 A.8.5(e)

FFIEC IS v2016 A.8.5(f)

FFIEC IS v2016 A.8.5(g)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(6)(i)

HIPAA § 164.308(a)(6)(ii)

HIPAA § 164.314(a)(2)(i)

HIPAA § 164.404(a)(1)

HIPAA § 164.404(a)(2)

HIPAA § 164.404(b)

HIPAA § 164.404(c)(1)

HIPAA § 164.404(c)(2)

HIPAA § 164.404(c)(3)

HIPAA § 164.404(d)(1)

HIPAA § 164.404(d)(2)

HIPAA § 164.404(d)(3)

HIPAA § 164.406(a)

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HIPAA § 164.406(b)

HIPAA § 164.406(c)

HIPAA § 164.408(a)

HIPAA § 164.408(b)

HIPAA § 164.408(c)

HIPAA § 164.410(a)(2)

HIPAA § 164.410(b)

HIPAA § 164.410(c)(1)

HIPAA § 164.410(c)(2)

HIPAA § 164.412

HIPAA § 164.414(b)

IRS Pub 1075 v2014 9.3.8.1

IRS Pub 1075 v2014 9.3.8.2

IRS Pub 1075 v2014 9.3.8.6

ISO/IEC 27002:2005 13.1.1

ISO/IEC 27002:2005 13.2.1

ISO/IEC 27002:2005 8.2.2

ISO/IEC 27002:2013 16.1.1

ISO/IEC 27002:2013 16.1.4

ISO/IEC 27002:2013 7.2.1

ISO/IEC 27002:2013 7.2.2

MARS-E v2 IR-1

MARS-E v2 IR-2

MARS-E v2 IR-4(1)

MARS-E v2 IR-6

MARS-E v2 IR-6(1)

MARS-E v2 PM-12

NIST Cybersecurity Framework DE.CM-1

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.AT-5

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RS.CO-2

NIST SP 800-53 IR-1

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 IR-2

NIST SP 800-53 R4 IR-4(1)

NIST SP 800-53 R4 IR-6

NIST SP 800-53 R4 IR-6(1)

NIST SP 800-53 R4 PM-12

NIST SP 800-53 R4 SI-4

NRS 603A.215.1

NRS 603A.215.2

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NRS 603A.220.3

PCI DSS v3.2 12.10

PCI DSS v3.2 12.10.1

PCI DSS v3.2 12.10.4

PCI DSS v3.2 12.10.5

PMI DSP Framework DE-4

PMI DSP Framework RC-3

**Level 3 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 3** | Bed: Greater than 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  | HIE Transactions: More than 6 Million Transactions |
|  | Hospital Admissions: More than 20k Patients |
|  | IT Service Provider: More than 60 Terabytes(TB) |
|  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  | Physician Count: Greater than 25 Physicians |
|  | Physician Encounters: Greater than 180k Encounters |
|  | Record Count Annual: More than 725k Records |
|  | Record Total: More than 60 Million Records |
|  |  |
| **Level 3** |  |
| **System Factors:** |  |
|  |  |
| **Level 3** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 3 Implementation:** | Level 2 plus: |
|  |
|  | A duress alarm shall be provided whereby a person under duress can indicate such |
|  | problems. The procedures for responding to duress alarms shall reflect the high-risk |
|  | situation such alarms are indicating. |
|  | An information security assessment shall be made, either on all incidents or on a |
|  | sample, to further validate the effectiveness or otherwise of established controls and |
|  | of the risk assessment that lead to them. |
|  | Examples include: |
|  | • a break-in leading to theft of IT hardware, resulting in a confidentiality |
|  | breach; or |
|  | • a fire could be set to disguise misuse of IT equipment. |
|  |  |
| **Level 3** | ISO/IEC 27002:2005 13.1.1 |
| **Control Standard** | ISO/IEC 27002:2005 13.2.2 |
| **Mapping:** | ISO/IEC 27002:2013 16.1.2 |
|  |
|  | ISO/IEC 27002:2013 16.1.6 |
|  | NIST Cybersecurity Framework DE.DP-4 |
|  | NIST Cybersecurity Framework PR.IP-7 |
|  | NIST Cybersecurity Framework PR.IP-9 |
|  |  |

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|  |  |
| --- | --- |
|  | NIST Cybersecurity Framework RS.CO-2 |
|  | NIST Cybersecurity Framework RS.RP-1 |
|  |  |
| **Level Cloud Service** | **Implementation Requirements** |
| **Providers** |
|  |  |
| **Level Cloud Service** | Cloud service providers shall make security incident information available to all |
| **Providers** |
| **Implementation:** | affected customers and providers periodically through electronic methods (e.g., |
|  | portals). |
|  |  |
| **Level CMS Implementation Requirements** | |
|  |  |
| **Level CMS** | The organization shall require personnel to report suspected security incidents to |
| **Implementation:** |
|  | the organizational incident response capability within the timeframe established in |
|  | the current CMS Incident Handling and Breach Notification Standard. |
|  |  |
| **Level De-ID Data** | **Implementation Requirements** |
| **Environment** |  |
| **Level De-ID Data** | Entities receiving de-identified data notify the providing organization's data |
| **Environment** |
| **Implementation:** | custodian of breaches involving Patient De-identified data as required by law for |
|  | breaches of Patient Identifiable data, so that the providing organization can |
|  | determine the appropriate response. |
|  | Visitor-related incidents are tracked, and corrective actions are taken, when they |
|  | occur. |
|  |  |

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Any data incident potentially involving FTI must immediately be reported to the appropriate Treasury Inspector General for Tax Administration (TIGTA) field office and the IRS Office of Safeguards immediately, but no later than twenty-four (24) hours after identification of a possible issue involving FTI.

To notify the Office of Safeguards, the agency must document the specifics of the incident known at that time into a data incident report including, but not limited to:

* Name of agency and agency Point of Contact for resolving a data incident with contact information
* Date and time of the incident
* Date and time the incident was discovered
* How the incident was discovered
* Description of the incident and the data involved, including specific data
* elements, if known
* Potential number of FTI records involved; if unknown, provide a range if possible
* Address where the incident occurred
* IT involved (e.g., laptop, server, mainframe)
* Do not include any FTI in the data Incident report
* Reports must be sent electronically and encrypted via IRS-approved

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encryption techniques. Use the term data incident report in the subject line of the email.

The agency must inform the Office of Safeguards of notification activities undertaken before release to individuals impacted by a breach of FTI. In addition, the agency must inform the Office of Safeguards of any pending media releases, including sharing the text, prior to distribution.

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

In the case of a personal data breach, the controller notifies the appropriate supervisory authority, without undue delay and, where feasible, not later than 72 hours after having become aware of it, unless the personal data breach is unlikely to result in a risk to the rights and liberties (freedoms) of natural persons; and such notification is provided all at once or, if in phases, without further undue delay; and contain at least:

* describe the nature of the personal data breach including where possible, the categories and approximate number of data subjects concerned, and the categories and approximate number of personal data records concerned;
* communicate the name and contact details of the data protection officer or other contact point where more information can be obtained;
* describe the likely consequences of the personal data breach; and
* describe the measures taken or proposed to be taken by the controller to address the personal data breach, including, where appropriate, measures to mitigate its possible adverse effects.

Where the notification to the supervisory authority is not made within 72 hours, it shall be accompanied by reasons for the delay

The processor notifies the controller without undue delay after becoming aware of a personal data breach.

The controller documents any personal data breach, comprising the facts relating to the breach, its effects and the remedial action taken.

With limited exception, when the personal data breach is likely to result in a high risk to the rights and freedoms of natural persons, the controller communicates the personal data breach to the data subject without undue delay. Exceptions to notification occur when ANY of the following conditions are met:

* the controller has implemented appropriate technical and organizational protection measures, and that those measures were applied to the personal data affected by the personal data breach, particularly those that render the personal data unintelligible to any person who is not authorized to access it, such as encryption;
* the controller has taken subsequent measures which ensure that the high risk to the rights and freedoms of data subjects is no longer likely to materialize; or
* it would involve disproportionate effort. In such a case, there shall instead be a public communication or similar measure whereby the data subjects

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are informed in an equally effective manner.

The communication to the data subject describes in clear and plain language the nature of the personal data breach and contain at least:

* communicate the name and contact details of the data protection officer or other contact point where more information can be obtained;
* describe the likely consequences of the personal data breach;
* describe the measures taken or proposed to be taken by the controller to address the personal data breach, including, where appropriate, measures to mitigate its possible adverse effects

**Level HIX Implementation Requirements**

**Level HIX**

**Implementation:** The organization follows CMS Incident Reporting requirements for reporting incidents to oversight organizations.

**Level PCI Implementation Requirements**

**Level PCI**

**Implementation:** The organization shall designate specific personnel to be available on a twenty-four-hour, seven-day-a-week (24/7) basis to respond to alerts.

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Organizations or persons that conduct business in Texas and own or license computerized data that includes sensitive personal information shall disclose any

breach of system security, after discovering or receiving notification of the breach, to any individual whose sensitive personal information was, or is reasonably believed to have been, acquired by unauthorized persons. The disclosure shall be made as quickly as possible, except at the request of a law enforcement agency that determines notification will impede a criminal investigation, or as necessary to determine the scope of the breach and restore the reasonable integrity of the data system.

If the individual is a resident of a state that requires a person or entity to provide notice of a breach of system security, notice of the breach of system security may be provided in accordance with that state's law.

A person or entity may give notice by providing:

* Written notice at the last known address;
* Electronic notice, if the notice is provided in accordance with 15 U.S.C. Section 7001; or
* If the person or entity required to give notice demonstrates that the cost of providing notice would exceed $250,000, the number of affected persons exceeds 500,000, or the person or entity does not have sufficient contact information, the notice may be given by:
  + Electronic mail, if the person or entity has electronic mail addresses for the affected persons;
  + Conspicuous posting of the notice on the person's or entity's

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Website;

* Notice published in, or broadcast on, major statewide media; or
* Notwithstanding the methods described above, a person or entity who maintains their own notification procedures as part of an information security policy for the treatment of sensitive personal information that complies with the timing requirements for notice under this section complies with this section if the person or entity notifies affected persons in accordance with that policy.

If a person or entity is required by this section to notify more than 10,000 persons of a breach of system security at one time, the person or entity shall also notify each consumer reporting agency, as defined by 15 U.S.C. Section 1681a, that maintains files on consumers on a nationwide basis, of the timing, distribution, and content of the notices. The person or entity shall provide the notice required by this subsection without unreasonable delay.

Organizations shall incorporate procedures in their security and privacy incident response programs to assist with investigations conducted by TX state and local registrars or their representatives, when it is believed a person or persons intentionally or knowingly supplies false information, or intentionally or knowingly creates a false record, or directs another person to supply false information or create a false record, for use in the preparation of a certificate, record or report, or amendment covered under THSC Title 3, as provided by THSC §195.002 thru 195.005.

Private psychiatric (mental) hospitals, crisis stabilization units and other mental health facilities shall incorporate procedures in their security and privacy incident response programs to assist with state investigations, including the release of otherwise confidential information related to the investigation, as required under THSC § 577.

**Level Title 23 NYCRR Implementation Requirements**

**Part 500**

**Level Title 23 NYCRR**

**Part 500 Implementation:** The organization must notify the superintendent of financial services for the state of New York within 72 hours from a determination that a cybersecurity event has

occurred that is either of the following:

* Cybersecurity events impacting the organization that require notice to be provided to any government body, self-regulatory agency or any other supervisory body; or
* Cybersecurity events that have a reasonable likelihood of materially harming any material part of the normal operation(s) of the organization.

**Control Reference: 11.b Reporting Security Weaknesses**

**Control Specification:**

All employees, contractors, and third-party users of information systems and services shall be required to note and report any observed or suspected security weaknesses in systems or services.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |

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|  |  |
| --- | --- |
| **Topics:** | Awareness and Training; Incident Response; Personnel; Third Parties and |
|  | Contractors |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 1 Implementation:** | All employees, contractors and third-party users shall report incident and event |
|  |
|  | information, including violations of workforce rules of behavior and acceptable use |
|  | agreement, to their management and/or directly to their service provider as quickly |
|  | as possible in order to prevent information security incidents. |
|  | The reporting mechanism shall be easy to use, widely accessible, and available to |
|  | all employees. |
|  | Employees, contractors and third-party users shall be informed (including but not |
|  | limited to policies and procedures and incident response training) that they shall not, |
|  | in any circumstances, attempt to prove a suspected weakness. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA CC2.5 |
| **Mapping:** | CMSRs 2013v2 IR-6 (HIGH) |
|  |
|  | CMSRs 2013v2 PL-4 (HIGH) |
|  | CMSRs 2013v2 SI-2 (HIGH) |
|  | CSA CCM v3.0.1 SEF-03 |
|  | FedRAMP IR-4 |
|  | FedRAMP IR-6 |
|  | FedRAMP PL-4 |
|  | FedRAMP SI-2 |
|  | FFIEC IS v2016 A.8.5(g) |
|  | IRS Pub 1075 v2014 9.3.12.3 |
|  | IRS Pub 1075 v2014 9.3.17.2 |
|  | IRS Pub 1075 v2014 9.3.8.6 |
|  | ISO/IEC 27002:2005 13.1.2 |
|  | ISO/IEC 27002:2013 16.1.3 |
|  | MARS-E v2 IR-6 |
|  | MARS-E v2 PL-4 |
|  | MARS-E v2 SI-2 |
|  | NIST Cybersecurity Framework PR.AT-1 |
|  | NIST Cybersecurity Framework RS.CO-2 |
|  |  |

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NIST SP 800-53 R4 IR-6

NIST SP 800-53 R4 PL-4

NIST SP 800-53 R4 SI-2

NRS 603A.215.1

PCI DSS v3.2 12.10.4

PMI DSP Framework DE-4

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
|  |  |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to Banking Requirements |
| **Regulatory Factors:** | Subject to FTC Red Flags Rule |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | All employees, contractors and third-party users shall report potential weaknesses |
|  | that may lead to organization or system breaches, or lead to identity theft for the |
|  | following categories: |
|  | • alerts, notifications, or other warnings received from third parties, state or |
|  | federal agencies or service providers, such as fraud detection services; |
|  | • the presentation of suspicious documents associated with an individual's |
|  | account; |
|  | • the presentation of suspicious covered information (e.g., an address change |
|  | that is inconsistent with existing information); |
|  | • the unusual use of, or other suspicious activity related to, an individual's |
|  | account; and |
|  | • notice from customers, law enforcement authorities, or other persons |
|  | regarding possible weaknesses in connection with accounts held by the |
|  | organization. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(3) |
| **Control Standard** | 16 CFR Part §681 Appendix A II(c) |
| **Mapping:** | FedRAMP IR-4 |
|  |
|  | FFIEC IS v2016 A.8.1(m) |
|  | FFIEC IS v2016 A.8.5(g) |
|  | ISO/IEC 27002:2005 13.1.2 |
|  |  |

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ISO/IEC 27002:2013 16.1.3

NIST Cybersecurity Framework ID.RA-1

NIST SP 800-53 R4 CA-7

NIST SP 800-53 R4 SI-4

NIST SP 800-53 R4 SI-5

PMI DSP Framework DE-4

**Objective Name: 11.02 Management of Information Security Incidents and Improvements**

**Control**

**Objective:** To ensure a consistent and effective approach to the management of information security incidents.

**Control Reference: 11.c Responsibilities and Procedures**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Management responsibilities and procedures shall be established to ensure a quick, |
|  |  |
|  |  | effective, and orderly response to information security incidents. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Contingency Planning; Documentation and Records; |
|  |  | Incident Response; IT Organization and Management Roles and Responsibilities; |
|  |  | Policies and Procedures; Third Parties and Contractors |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to FTC Red Flags Rule |
|  | **Regulatory Factors:** | Subject to State of Massachusetts Data Protection Act |
|  |  | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | The organization shall implement a formal incident response program, which |
|  |  |
|  |  | includes the definition of specific phases for incident response. |
|  |  | The organization shall implement an incident handling capability for security |
|  |  | incidents that includes detection and analysis (including forensics), containment, |
|  |  | eradication, and recovery (including public relations and reputation management). |
|  |  | A program of business processes and technical measures shall be established to |
|  |  | triage security-related events and handle different types of information security |
|  |  | incidents including: |
|  |  | • information system failures and loss of service; |

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|  |  |  |
| --- | --- | --- |
|  | • | malicious code; |
|  | • | denial of service; |
|  | • errors resulting from incomplete or inaccurate business data; | |
|  | • breaches of confidentiality and integrity; | |
|  | • disclosures of unprotected health information; | |
|  | • misuse of information systems; | |
|  | • | identity theft; and |
|  | • unauthorized wireless access points. | |
|  | In addition to normal contingency plans, the program shall also cover: | |
|  | • analysis and identification of the cause of the incident; | |
|  | • | containment; |
|  | • restoration and follow-up strategies; | |
|  | • increased monitoring of system use; | |
|  | • planning and implementation of corrective action to prevent recurrence | |
|  |  | including |
|  |  | • changing of password or security codes; |
|  |  | • changing of devices that permit access to the organization's |
|  |  | systems or network; |
|  |  | • modifying or terminating an account of individuals involved directly |
|  |  | or indirectly by the incident (e.g., employees, third-parties, |
|  |  | contractors, customers); and |
|  | • assigning a single point of contact for the organization responsible for | |
|  |  | sharing information and coordinating responses and that has the authority |
|  |  | to direct actions required in all phases of the incident response process. |
|  | • The organization shall test and/or exercise its incident response capability | |
|  |  | regularly. |
|  |  | |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(3) | |
| **Mapping:** | 1 TAC § 390.2(a)(4)(A)(xi) | |
|  |
|  | 16 | CFR Part §681 Appendix A IV(a) |
|  | 16 | CFR Part §681 Appendix A IV(b) |
|  | 16 | CFR Part §681 Appendix A IV(c) |
|  | 16 | CFR Part §681 Appendix A IV(d) |
|  | 16 | CFR Part §681 Appendix A IV(e) |
|  | 16 | CFR Part §681 Appendix A IV(f) |
|  | 16 | CFR Part §681 Appendix A IV(g) |
|  | 16 | CFR Part §681 Appendix A IV(h) |
|  | 16 | CFR Part §681 Appendix A IV(i) |

201 CMR 17.03(2)(j)

23 NYCRR 500.02(b)(4)

AICPA CC6.2

CMSRs 2013v2 IR-1 (HIGH)

COBIT 4.1 DS5.6

COBIT 5 DSS02.01

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COBIT 5 DSS02.04

COBIT 5 DSS02.05

CRR V2016 IM:G2.Q3

CRR V2016 IM:G2.Q5

CRR V2016 IM:MIL2.Q3

CRR V2016 IM:MIL2.Q4

CRR V2016 IM:MIL3.Q1

CRR V2016 IM:MIL5.Q1

CSA CCM v3.0.1 IVS-13

CSA CCM v3.0.1 SEF-02

FedRAMP IR-1

FFIEC IS v2016 A.8.5(b)

FFIEC IS v2016 A.8.5(c)

FFIEC IS v2016 A.8.5(c)

FFIEC IS v2016 A.8.5(c)

FFIEC IS v2016 A.8.5(e)

FFIEC IS v2016 A.8.5(f)

FFIEC IS v2016 A.8.6(a)

FFIEC IS v2016 A.8.6(c)

FFIEC IS v2016 A.8.6(d)

FFIEC IS v2016 A.8.6(e)

FFIEC IS v2016 A.8.6(f)

FFIEC IS v2016 A.8.6(g)

FFIEC IS v2016 A.8.6(h)

FFIEC IS v2016 A.8.6(i)

GDPR Article 32(1)(c)

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(6)(i)

HIPAA § 164.308(a)(6)(ii)

HIPAA § 164.404(a)(1)

IRS Pub 1075 v2014 9.3.8.1

ISO/IEC 27002:2013 16.1.1

ISO/IEC 27002:2013 16.1.5

ISO/IEC 27002:2015 13.1.1

ISO/IEC 27002:2015 13.2.1

MARS-E v2 IR-1

NIST Cybersecurity Framework PR. IP-10

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RC.CO-1

NIST Cybersecurity Framework RC.CO-2

NIST Cybersecurity Framework RS.AN-3

NIST Cybersecurity Framework RS.AN-4

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NIST Cybersecurity Framework RS.CO-4

NIST Cybersecurity Framework RS.MI-1

NIST Cybersecurity Framework RS.MI-2

NIST Cybersecurity Framework RS.RP-1

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 IR-4

PCI DSS v3.2 11.1.2

PCI DSS v3.2 12.10

PCI DSS v3.2 12.10.1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework RS-1

PMI DSP Framework RS-4

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to CA Civil Code § 1798.81.5 |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the State of Nevada Security of Personal Information Requirements |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Audit trails and similar evidence shall be collected and secured, as appropriate, for: |
|  |  | • internal problem analysis; |
|  |  | • use as forensic evidence in relation to a potential breach of contract, |
|  |  | regulatory requirement or in the event of civil or criminal proceedings (e.g., |
|  |  | under computer misuse or data protection legislation); and |
|  |  | • negotiating for compensation from software and service suppliers. |
|  |  | A log of any occurring incident is maintained and this log is to be submitted annually |
|  |  | to the federal government. |
|  |  | Action to recover from security breaches and correct system failures shall be |

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carefully and formally controlled. The procedures shall ensure that:

* only clearly identified and authorized personnel are allowed access to live systems and data;
* all emergency actions taken are documented in detail;
* damage is minimized through the containment of the incident, restoration of systems, and preservation of data and evidence;
* emergency action is reported to management and reviewed in an orderly manner; and
* the integrity of business systems and controls is confirmed with minimal delay; and
* stakeholders are notified immediately when a safe and secure environment has been restored.

The organization shall disseminate incident response policy and procedures to appropriate elements within the organization. Responsible parties within the organization on a pre-defined frequency shall review incident response policy and procedures. The organization shall update incident response policy and procedures when organizational review indicates updates are required.

The organization shall respond to incidents in accordance with the documented procedures, which should include, but not be limited to, the following:

* collecting evidence as soon as possible after the occurrence (see 11.e);
* conducting information security forensic analysis, as required (see 11.e);
* escalation, as required;
* ensuring that all involved response activities are properly logged for later analysis;
* communicating the existence of the information security incident or any relevant details thereof to other internal and external people or organizations with a need to know;
* dealing with information security weakness(es) found to cause or contribute to the incident; and
* once the incident has been successfully addressed, formally closing and recording it.

The organization shall coordinate incident response testing with organization elements responsible for related plans.

Incident Response Testing and Exercises procedures shall include:

* defining incident response tests/exercises, including automated mechanisms;
* defining the frequency of incident response tests/exercises;
* testing the incident response capability for the information system using organization-defined tests/exercises in accordance with organization-defined frequency; and
* documenting the results of incident response tests/exercises.

In addition to reporting of information security events and weaknesses, the monitoring of systems, alerts, and vulnerabilities shall be used to detect information security incidents.

The organization tests and/or exercises the incident response capability for the

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|  |  |
| --- | --- |
|  | information system within every three hundred sixty-five (365) days using reviews, |
|  | analyses, and simulations to determine the incident response effectiveness, and |
|  | produces an after-action report to improve existing processes, procedures, and |
|  | policies. Such testing includes personnel associated with the incident handling team |
|  | to ensure that they understand current threats and risks, as well as their |
|  | responsibilities in supporting the incident handling team. A formal test need not be |
|  | conducted if the organization actively exercises its response capability using real |
|  | incidents. |
|  | The incident management plan is reviewed and updated annually. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.06(a)(2) |
| **Mapping:** | 23 NYCRR 500.16(b)(2) |
|  |
|  | 23 NYCRR 500.16(b)(3) |
|  | 23 NYCRR 500.16(b)(5) |
|  | 23 NYCRR 500.16(b)(7) |
|  | CIS CSC v6 19.7 |
|  | CMSRs 2013v2 IR-1 (HIGH) |
|  | CMSRs 2013v2 IR-3 (HIGH) |
|  | CMSRs 2013v2 IR-3(2) (HIGH) |
|  | CMSRs 2013v2 IR-8 (HIGH) |
|  | CMSRs 2013v2 SE-2 (HIGH) |
|  | CRR V2016 CCM:G1.Q5 |
|  | CRR V2016 IM:G1.Q2 |
|  | CRR V2016 IM:G2.Q1 |
|  | CRR V2016 IM:G2.Q2 |
|  | CRR V2016 IM:G2.Q8 |
|  | CRR V2016 IM:G2.Q9 |
|  | CRR V2016 IM:G4.Q1 |
|  | CRR V2016 IM:G5.Q1 |
|  | CRR V2016 IM:MIL2.Q4 |
|  | CRR V2016 IM:MIL3.Q1 |
|  | CRR V2016 IM:MIL3.Q4 |
|  | CRR V2016 IM:MIL4.Q1 |
|  | CRR V2016 IM:MIL4.Q3 |
|  | FedRAMP IR-1 |
|  | FedRAMP IR-3 |
|  | FedRAMP IR-3(2) |
|  | FedRAMP IR-8 |
|  | FFIEC IS v2016 A.6.21(c) |
|  | FFIEC IS v2016 A.8.5(b) |
|  | FFIEC IS v2016 A.8.5(c) |
|  | FFIEC IS v2016 A.8.5(c) |
|  |  |

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FFIEC IS v2016 A.8.5(c)

FFIEC IS v2016 A.8.5(e)

FFIEC IS v2016 A.8.5(f)

FFIEC IS v2016 A.8.5(h)

FFIEC IS v2016 A.8.6(a)

FFIEC IS v2016 A.8.6(b)

FFIEC IS v2016 A.8.6(d)

FFIEC IS v2016 A.8.6(e)

FFIEC IS v2016 A.8.6(f)

FFIEC IS v2016 A.8.6(g)

HIPAA § 164.308(a)(6)(i)

HIPAA § 164.308(a)(6)(ii)

HIPAA § 164.404(a)(1)

HIPAA § 164.408(c)

IRS Pub 1075 v2014 10.3

IRS Pub 1075 v2014 9.3.8.1

IRS Pub 1075 v2014 9.3.8.3

IRS Pub 1075 v2014 9.3.8.8

ISO 27799-2008 7.10.2.1

ISO 27799-2008 7.10.2.3

ISO/IEC 27002:2005 13.2.1

ISO/IEC 27002:2013 16.1.1

ISO/IEC 27002:2013 16.1.5

MARS-E v2 IR-1

MARS-E v2 IR-3

MARS-E v2 IR-3(2)

MARS-E v2 IR-8

MARS-E v2 SE-2

NIST Cybersecurity Framework DE.AE-3

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.IP-10

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RS.CO-2

NIST Cybersecurity Framework RS.CO-3

NIST Cybersecurity Framework RS.CO-4

NIST Cybersecurity Framework RS.IM-2

NIST Cybersecurity Framework RS.RP-1

NIST SP 800-53 R4 IR-1

NIST SP 800-53 R4 IR-3

NIST SP 800-53 R4 IR-3(2)

NIST SP 800-53 R4 IR-4

NIST SP 800-53 R4 IR-8

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NIST SP 800-53 R4 SE-2

NRS 603A.215.1

NRS 603A.220.4.a

NRS 603A.220.4.b

NRS 603A.220.4.c.1

NRS 603A.220.4.c.2

NRS 603A.220.6

PCI DSS v3.2 12.10.1

PCI DSS v3.2 12.10.2

PCI DSS v3.2 12.10.4

PMI DSP Framework RC-1

PMI DSP Framework RC-2

PMI DSP Framework RS-1

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization: |
|  |  | • develops an incident response plan that: |
|  |  | • provides the organization with a roadmap for implementing its |
|  |  | incident response capability; |
|  |  | • describes the structure and organization of the incident response |
|  |  | capability; |
|  |  | • provides a high-level approach for how the incident response |
|  |  | capability fits into the overall organization; |

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|  |  |
| --- | --- |
|  | • meets the unique requirements of the organization, which relate to |
|  | mission, size, structure, and functions; |
|  | • defines reportable incidents; |
|  | • provides metrics for measuring the incident response capability |
|  | within the organization. |
|  | • defines the resources and management support needed to |
|  | effectively maintain and mature an incident response capability; and |
|  | • is reviewed and approved by designated officials within the |
|  | organization; |
|  | • distributes copies of the incident response plan to incident response |
|  | personnel and organizational elements; |
|  | • reviews the incident response plan within every three hundred sixty-five |
|  | (365) days; |
|  | • revises the incident response plan to address system/organizational |
|  | changes or problems encountered during plan implementation, execution, |
|  | or testing; and |
|  | • communicates incident response plan changes to incident response |
|  | personnel and organizational elements. |
|  | The organization shall provide an incident response support resource that offers |
|  | advice and assistance to users of the information system for the handling and |
|  | reporting of security incidents. The incident response support resource shall be an |
|  | integral part of the organization's incident response capability. |
|  | The organization shall track and document information system security incidents on |
|  | an ongoing basis. The organization shall promptly report incident information to |
|  | appropriate authorities. The types of incident information reported, the content and |
|  | timeliness of the reports, and the list of designated reporting shall be consistent with |
|  | applicable laws, Executive Orders, directives, policies, regulations, standards, and |
|  | guidance. Weaknesses and vulnerabilities in the information system shall be |
|  | reported to appropriate organizational officials in a timely manner to prevent security |
|  | incidents. |
|  | The organization shall communicate with outside parties regarding the incident. This |
|  | includes reporting incidents to organizations such as the Federal Computer Incident |
|  | Response Center (FedCIRC) and the CERT Coordination Center (CERT/CC), |
|  | contacting law enforcement, and fielding inquiries from the media. |
|  | The objectives for information security incident management shall be agreed to with |
|  | management, and it shall be ensured that those responsible for information security |
|  | incident management understand the organization's priorities for handling |
|  | information security incidents. |
|  | The organization shall employ automated mechanisms to increase the availability of |
|  | incident response related information and support. |
|  |  |
| **Level 3** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 IR-5 (HIGH) |
| **Mapping:** | CMSRs 2013v2 IR-6 (HIGH) |
|  |
|  | CMSRs 2013v2 IR-7 (HIGH) |
|  | CMSRs 2013v2 IR-7(1) (HIGH) |
|  | CMSRs 2013v2 IR-8 (HIGH) |
|  |  |

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CRR V2016 IM:G2.Q1

CRR V2016 IM:G2.Q6

CRR V2016 IM:G2.Q8

CRR V2016 IM:G2.Q9

CRR V2016 IM:G4.Q4

CRR V2016 IM:MIL3.Q1

CRR V2016 IM:MIL4.Q3

CSA CCM v3.0.1 SEF-02

CSA CCM v3.0.1 SEF-03

FedRAMP IR-4

FedRAMP IR-5

FedRAMP IR-6

FedRAMP IR-7

FedRAMP IR-7(1)

FedRAMP IR-8

FFIEC IS v2016 A.8.5(f)

FFIEC IS v2016 A.8.6(f)

HIPAA § 164.308(a)(6)(i)

HIPAA § 164.404(a)(1)

IRS Pub 1075 v2014 9.3.8.6

IRS Pub 1075 v2014 9.3.8.7

IRS Pub 1075 v2014 9.3.8.8

ISO/IEC 27002:2005 13.1.2

ISO/IEC 27002:2005 13.2.1

ISO/IEC 27002:2005 13.2.2

ISO/IEC 27002:2013 16.1.1

ISO/IEC 27002:2013 16.1.3

ISO/IEC 27002:2013 16.1.5

ISO/IEC 27002:2013 16.1.6

MARS-E v2 IR-5

MARS-E v2 IR-6

MARS-E v2 IR-7

MARS-E v2 IR-7(1)

MARS-E v2 IR-8

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RS.CO-1

NIST Cybersecurity Framework RS.CO-2

NIST Cybersecurity Framework RS.CO-3

NIST Cybersecurity Framework RS.CO-5

NIST Cybersecurity Framework RS.IM-1

NIST Cybersecurity Framework RS.IM-2

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NIST Cybersecurity Framework RS.MI-2

NIST SP 800-53 R4 IR-4

NIST SP 800-53 R4 IR-5

NIST SP 800-53 R4 IR-6

NIST SP 800-53 R4 IR-7

NIST SP 800-53 R4 IR-7(1)

NIST SP 800-53 R4 IR-8

PMI DSP Framework DE-5

PMI DSP Framework RS-1

**Level CMS Implementation Requirements**

**Level CMS Implementation:**

The organization shall employ automated mechanisms to assist in the tracking of security incidents.

The organization shall distribute copies of the incident response plan to:

* CMS Chief Information Security Officer;
* CMS Chief Information Officer;
* Information System Security Officer;
* CMS Office of the Inspector General/Computer Crimes Unit;
* All personnel within the organization Incident Response Team;
* All personnel within the PII Breach Response Team; and
* All personnel within the organization Operations Centers.

The organization shall communicate incident response plan changes to the organizational elements listed above for distribution.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The service provider defines a list of incident response personnel (identified by name and/or by role) and organizational elements. The incident response list includes designated FedRAMP personnel.

The organization agency takes an appropriate response to information spills by:

* identifying the specific information involved in the information system contamination;
* alerting authorized incident response personnel of the information spill using a method of communication not associated with the spill;
* isolating the contaminated information system or system component;
* eradicating the information from the contaminated information system or component; and
* identifying other information systems or system components that may have been subsequently contaminated.

The organization implements the following in response to information spills:

* assigns organization-defined personnel or roles with responsibility for responding to information spills;

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* provides information spillage response training;
* ensure that organizational personnel impacted by information spills can continue to carry out assigned tasks while contaminated systems are undergoing corrective actions; and
* employs security safeguards for personnel exposed to information not within assigned access authorizations.

The organization implements procedures for the use of maintenance personnel that lack appropriate security clearances or are not U.S. citizens, that include the following requirements:

* Maintenance personnel who do not have needed access authorizations, clearances, or formal access approvals are escorted and supervised during the performance of maintenance and diagnostic activities on the information system by approved organizational personnel who are fully cleared, have appropriate access authorizations, and are technically qualified;
* Prior to initiating maintenance or diagnostic activities by personnel who do not have needed access authorizations, clearances or formal access approvals, all volatile information storage components within the information system are sanitized and all nonvolatile storage media are removed or physically disconnected from the system and secured.

The organization has developed and implemented alternate security safeguards in the event an information system component cannot be sanitized, removed, or disconnected from the system.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The agency must track and document all physical and information system security incidents potentially affecting the confidentiality of FTI. The agency must not wait to conduct an internal investigation to determine if FTI was involved in an unauthorized disclosure or data breach. If FTI may have been involved, the agency must contact TIGTA and the IRS immediately. The agency will cooperate with TIGTA and Office of Safeguards investigators, providing data and access as needed to determine the facts and circumstances of the incident.

The organization exercises its response to unauthorized FTI access and reporting of unauthorized FTI access to IRS and TIGTA.

Agencies must perform tabletop exercises using scenarios that include a breach of FTI and should test the agency's incident response policies and procedures. All employees and contractors with significant FTI incident response capabilities, including technical personnel responsible for maintaining consolidated data centers and off-site storage, must be included in tabletop exercises. Each tabletop exercise must produce an after-action report to improve existing processes, procedures, and policies.

The agency shall provide an incident response support resource that offers advice and assistance to users of the federal tax information and any information system containing federal tax information for the handling and reporting of security incidents. The support resource is an integral part of the agency's incident response

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|  |  |  |
| --- | --- | --- |
|  |  | capability. |
|  |  | The agency shall agency develop, document, and maintain a current incident |
|  |  | response plan that describes the structure and organization of the incident response |
|  |  | capability and includes incident response procedures specific to FTI, including any |
|  |  | data warehousing environment that contains FTI. |
|  |  | The agency must respond to information spills by: |
|  |  | • Identifying the specific information involved in the information system |
|  |  | contamination; |
|  |  | • Alerting authorized incident response personnel of the information spill |
|  |  | using a method of communication not associated with the spill; |
|  |  | • Isolating the contaminated information system or system component; |
|  |  | • Eradicating the information from the contaminated information system or |
|  |  | component; and |
|  |  | • Identifying other information systems or system components that may have |
|  |  | been subsequently contaminated. |
|  | **Level HIX Implementation Requirements** | |
|  |  |  |
| **Level HIX** |  | The organization responds to information spills by: |
| **Implementation:** |  |
|  |  | • Requiring personnel to report suspected incidents to the organizational |
|  |  | incident response capability within the timeframe established in the current |
|  |  | Administering Entity (AE) organization Incident Handling Procedure and |
|  |  | ACA incident handling reporting process, available at |
|  |  | https://calt.cms.gov/sf/projects/cms\_aca\_program\_security\_privacy/; |
|  |  | • Identifying the specific information involved in the improper or potentially |
|  |  | improper information disclosure; |
|  |  | • Alerting authorized incident response personnel of the information spill |
|  |  | using a method of communication not associated with the spill; |
|  |  | • Identifying other information systems or system components on which the |
|  |  | information may have been subsequently improperly or potentially |
|  |  | improperly shared with or disclosed to; and |
|  |  | • Removing and destroying the information from the contaminated information |
|  |  | system, component or individual not authorized to handle such information. |
|  |  |  |

**Control Reference: 11.d Learning from Information Security Incidents**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Control Specification:** | | There shall be mechanisms in place to enable the types, volumes, and costs of |
|  |  |  |
|  |  |  | information security incidents to be quantified and monitored. |
|  |  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |  |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Awareness and Training; Incident Response; IT Organization and Management |
|  |  |  | Roles and Responsibilities |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | The information gained from the evaluation of information security incidents is used |
|  |
|  | to identify recurring or high-impact incidents and update the incident response and |
|  | recovery strategy. |
|  | Mechanisms shall be put in place to monitor and quantify the types, volumes, and |
|  | costs of information security incidents. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 23 NYCRR 500.16(b)(7) |
| **Mapping:** | AICPA CC6.2 |
|  |
|  | CRR V2016 IM:G2.Q4 |
|  | CRR V2016 IM:G3.Q3 |
|  | CSA CCM v3.0.1 SEF-05 |
|  | GDPR Article 32(1)(c) |
|  | HIPAA § 164.308(a)(1)(ii)(D) |
|  | HIPAA § 164.308(a)(6)(ii) |
|  | ISO 27799-2008 7.10.2.2 |
|  | ISO/IEC 27002:2005 13.2.2 |
|  | ISO/IEC 27002:2013 16.1.6 |
|  | NIST Cybersecurity Framework DE.AE-1 |
|  | NIST Cybersecurity Framework DE.AE-2 |
|  | NIST Cybersecurity Framework DE.AE-4 |
|  | NIST Cybersecurity Framework RC.RP-1 |
|  | NIST Cybersecurity Framework RS.AN-2 |
|  | NIST Cybersecurity Framework RS.RP-1 |
|  | Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3 |
|  | Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3 |
|  | PMI DSP Framework RC-3 |
|  |  |

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |

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|  |  |
| --- | --- |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to 23 NYCRR 500 |
| **Regulatory Factors:** | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to PCI Compliance |
|  | Subject to State of Massachusetts Data Protection Act |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization shall: |
|  | • coordinate incident handling activities with contingency planning activities; |
|  | and |
|  | • incorporate lessons learned from ongoing incident handling activities and |
|  | industry developments into incident response procedures, training and |
|  | testing exercises, and implement the resulting changes accordingly. |
|  | Components shall include: |
|  | • policy (setting corporate direction) and procedures defining roles and |
|  | responsibilities; |
|  | • incident handling procedures (business and technical); |
|  | • communication; |
|  | • reporting and retention; and |
|  | • references to vulnerability management program that includes network tools |
|  | for IPS, IDS, forensics, vulnerability assessments and validation. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.16(b)(7) |
| **Mapping:** | CMSRs 2013v2 IR-4 (HIGH) |
|  |
|  | CMSRs 2013v2 IR-4(1) (HIGH) |
|  | CMSRs 2013v2 IR-4(4) (HIGH) |
|  | CMSRs 2013v2 IR-5 (HIGH) |
|  | CMSRs 2013v2 IR-5(1) (HIGH) |
|  | CRR V2016 IM:G1.Q3 |
|  | CRR V2016 IM:G2.Q4 |
|  | CRR V2016 IM:G2.Q7 |
|  | CRR V2016 IM:G3.Q3 |
|  | CRR V2016 IM:G5.Q2 |
|  | CRR V2016 IM:G5.Q3 |
|  |  |

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CRR V2016 IM:MIL3.Q4

CRR V2016 IM:MIL4.Q1

CRR V2016 IM:MIL5.Q2

FedRAMP IR-4

HIPAA § 164.308(a)(1)(ii)(D)

HIPAA § 164.308(a)(6)(ii)

IRS Pub 1075 v2014 10.3

IRS Pub 1075 v2014 9.3.8.4

MARS-E v2 IR-4

MARS-E v2 IR-4(1)

NIST Cybersecurity Framework DE.AE-2

NIST Cybersecurity Framework DE.AE-3

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework RC.CO-1

NIST Cybersecurity Framework RC.CO-2

NIST Cybersecurity Framework RC.IM-1

NIST Cybersecurity Framework RC.IM-2

NIST Cybersecurity Framework RC.RP-1

NIST Cybersecurity Framework RS.AN-1

NIST Cybersecurity Framework RS.AN-3

NIST Cybersecurity Framework RS.CO-3

NIST Cybersecurity Framework RS.CO-4

NIST Cybersecurity Framework RS.IM-1

NIST Cybersecurity Framework RS.IM-2

NIST Cybersecurity Framework RS.MI-1

NIST Cybersecurity Framework RS.MI-2

NIST SP 800-53 R4 IR-4

NIST SP 800-53 R4 IR-4(1)

NIST SP 800-53 R4 IR-4(4)

NIST SP 800-53 R4 IR-5

NIST SP 800-53 R4 IR-5(1)

NRS 603A.215.1

PCI DSS v3.2 12.10.6

PMI DSP Framework RC-3

**Level CMS Implementation Requirements**

**Level CMS Implementation:**

The organization shall implement an incident handling capability using the current CMS Incident Handling and Breach Notification Standard and Procedures. Relevant information related to a security incident shall be documented according to the current CMS Incident Handling and Breach Notification Standard and Procedures.

The organization shall employ automated mechanisms to assist in the collection and

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analysis of incident information.

The organization correlates incident information and individual incident responses to achieve an organization-wide perspective on incident awareness and response.

**Level FedRAMP Implementation Requirements Level FedRAMP**

**Implementation:** The organization employs automated mechanisms to assist in the collection and analysis of incident information.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The organization provides specific incident response guidance relative to data incidents involving FTI.

Once the incident has been addressed, the agency will conduct a post-incident review to ensure the incident response policies and procedures provide adequate guidance. Complete SPR section 9.11.5

**Control Reference: 11.e Collection of Evidence**

|  |  |
| --- | --- |
| **Control Specification:** | Where a follow-up action against a person or organization after an information |
|  | security incident involves legal action (either civil or criminal), evidence shall be |
|  | collected, retained, and presented in support of potential legal action in accordance |
|  | with the rules for evidence in the relevant jurisdiction(s). |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Documentation and Records; Incident Response; Requirements (Legal and |
|  | Contractual); Services and Acquisitions |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | The organization shall collect, retain, and present evidence to support legal action |
|  |
|  | (either civil or criminal). The evidence that is collected, retained, and presented shall |
|  | be done in accordance with the laws of the relevant jurisdiction(s). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 16 CFR Part §681 Appendix A IV(a) |
| **Mapping:** | AICPA C1.7 |
|  |
|  | AICPA CC6.2 |
|  |  |

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CRR V2016 IM:G2.Q9

CSA CCM v3.0.1 SEF-04

HIPAA § 164.308(a)(6)(ii)

HIPAA § 164.408(c)

HIPAA § 164.414(b)

ISO 27799-2008 7.10.2.3

ISO/IEC 27002:2005 13.2.3

ISO/IEC 27002:2013 16.1.7

NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework RS.AN-3

NIST SP 800-53 R4 AU-11

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to PCI Compliance |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Internal procedures shall be developed, documented and followed when collecting |
|  |  | and presenting evidence for the purposes of disciplinary action handled within an |
|  |  | organization. |
|  |  | To achieve admissibility of the evidence, the organization shall ensure that their |
|  |  | information systems comply with any published standard or code of practice for the |
|  |  | production of admissible evidence. The weight of evidence provided shall comply |

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|  |  |
| --- | --- |
|  | with any applicable requirements. |
|  | To achieve weight of evidence, the quality and completeness of the controls used to |
|  | correctly and consistently protect the evidence (i.e. process control evidence) |
|  | throughout the period that the evidence to be recovered was stored and processed |
|  | shall be demonstrated by a strong evidence trail established with the following |
|  | conditions: |
|  | • for paper documents: the original is kept securely with a record of the |
|  | individual who found the document, where the document was found, when |
|  | the document was found and who witnessed the discovery; any |
|  | investigation shall ensure that originals are not tampered with. |
|  | • for information on computer media: mirror images or copies (depending on |
|  | applicable requirements) of any removable media, information on hard disks |
|  | or in memory shall be taken to ensure availability; the log of all actions |
|  | during the copying process shall be kept, and the process shall be |
|  | witnessed; the original media and the log (if this is not possible, at least one |
|  | mirror image or copy) shall be kept securely and untouched. |
|  | Any forensics work shall only be performed on copies of the evidential material. The |
|  | integrity of all evidential material shall be protected. Copying of evidential material |
|  | shall be supervised by trustworthy personnel, and information on when and where |
|  | the copying process was executed, who performed the copying activities, and which |
|  | tools and programs have been utilized shall be logged. |
|  | Organizations shall incorporate appropriate forensic handling procedures. Forensics |
|  | can be outsourced or handled in-house. Any type of forensics shall require training, |
|  | staff and processes for maintaining a proper chain of evidence. |
|  | Upon notification, customers and/or other external business partners impacted by a |
|  | security breach shall be given the opportunity to participate, as is legally |
|  | permissible, in the forensic investigation. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA C1.7 |
| **Mapping:** | CMSRs 2013v2 IR-4 (HIGH) |
|  |
|  | CRR V2016 IM:G2.Q8 |
|  | CRR V2016 IM:G2.Q9 |
|  | CRR V2016 IM:MIL3.Q2 |
|  | CSA CCM v3.0.1 SEF-04 |
|  | FedRAMP IR-4 |
|  | FFIEC IS v2016 A.8.1(b) |
|  | HIPAA § 164.308(a)(6)(ii) |
|  | HIPAA § 164.408(c) |
|  | HIPAA § 164.414(b) |
|  | IRS Pub 1075 v2014 9.3.8.4 |
|  | ISO 27799-2008 7.10.2.3 |
|  | ISO/IEC 27002:2005 13.2.3 |
|  | ISO/IEC 27002:2013 16.1.1 |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  |  | ISO/IEC 27002:2013 16.1.7 |
|  |  | MARS-E v2 IR-4 |
|  |  | NIST Cybersecurity Framework ID.GV-3 |
|  |  | NIST Cybersecurity Framework PR.IP-11 |
|  |  | NIST Cybersecurity Framework RS.AN-3 |
|  |  | NIST SP 800-53 R4 AU-9 |
|  |  | NIST SP 800-53 R4 IR-4 |
|  |  | NRS 603A.215.1 |
|  |  | PCI DSS v3.2 A.1.4 |
|  |  |  |
|  | **Level Cloud Service** | **Implementation Requirements** |
|  | **Providers** |
|  |  |  |
|  | **Level Cloud Service** | Upon notification, customers and/or other external business partners impacted by a |
|  | **Providers** |
|  | **Implementation:** | security breach shall be given the opportunity to participate, as is legally |
|  |  | permissible, in the forensic investigation. |
|  |  |  |
|  | **Level PCI Implementation Requirements** | |
|  |  |  |
|  | **Level PCI** | A service provider shall protect each organization's hosted environment and data by |
|  | **Implementation:** |
|  |  | enabling a process to provide for timely forensic investigation in the event of a |
|  |  | compromise to any hosted merchant or service provider. |
|  |  |  |

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**Control Category: 12.0 - Business Continuity Management**

**Objective Name: 12.01 Information Security Aspects of Business Continuity Management**

**Control**

**Objective:** To ensure that strategies and plans are in place to counteract interruptions to business activities and to protect critical business processes from the effects of

major failures of information systems or disasters and

**Control Reference: 12.a Including Information Security in the Business Continuity Management Process**

|  |  |
| --- | --- |
| **Control Specification:** | A managed program and process shall be developed and maintained for business |
|  |
|  | continuity throughout the organization that addresses the information security |
|  | requirements needed for the organization's business continuity. |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Contingency Planning; Documentation and Records; IT Organization and |
|  | Management Roles and Responsibilities; Media and Assets; Personnel; Risk |
|  | Management and Assessments |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Texas Health and Safety Code |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 1 Implementation:** | The program and process shall bring together the following key elements of |
|  |
|  | business continuity management: |
|  | • identifying all the assets involved in critical business processes; |
|  | • considering the purchase of suitable insurance, which may form part of |
|  | the overall business continuity process, as well as being part of |
|  | operational risk management; |
|  | • ensuring the safety of personnel and the protection of information assets |
|  | and organizational property; and |
|  | • formulating and documenting business continuity plans addressing |
|  | information security requirements in line with the agreed business |
|  | continuity strategy (see 12.c). |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.02(b)(5) |
| **Mapping:** | AICPA A1.3 |
|  |
|  |  |

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AICPA CC3.1

CMSRs 2013v2 CP-2 (HIGH)

CMSRs 2013v2 CP-2(8) (HIGH)

CMSRs 2013v2 PM-9 (HIGH)

CRR V2016 EDM:G3.Q1

CRR V2016 SCM:G1.Q1

CRR V2016 SCM:MIL2.Q1

CRR V2016 SCM:MIL2.Q2

CRR V2016 SCM:MIL2.Q4

CSA CCM v3.0.1 BCR-09

FedRAMP CP-2

FedRAMP CP-2(8)

GDPR Article 32(1)(c)

HIPAA § 164.308(a)(7)(i)

HIPAA § 164.308(a)(7)(ii)(B)

HIPAA § 164.308(a)(7)(ii)(C)

HIPAA § 164.308(a)(7)(ii)(D)

HIPAA § 164.308(a)(7)(ii)(E)

HIPAA § 164.310(a)(2)(i)

HIPAA § 164.312(a)(2)(ii)

IRS Pub 1075 v2014 9.3.6.2

ISO/IEC 27002:2005 14.1.1

ISO/IEC 27002:2013 17.1.2

MARS-E v2 CP-2

MARS-E v2 PM-9

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework PR.IP-11

NIST Cybersecurity Framework PR.IP-9

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-2(8)

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |

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|  |  |
| --- | --- |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to 23 NYCRR 500 |
| **Regulatory Factors:** | Subject to Banking Requirements |
|  | Subject to CRR V2016 |
|  | Subject to FedRAMP Certification |
|  | Subject to FISMA Compliance |
|  | Subject to IRS Pub 1075 Compliance |
|  | Subject to MARS-E Requirements |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The program and process shall bring together the following key elements of |
|  | business continuity management: |
|  | • identifying critical information system assets supporting organizational |
|  | missions and functions; |
|  | • understanding the risks the organization is facing in terms of likelihood |
|  | and impact in time, including an identification and prioritization of critical |
|  | business processes; |
|  | • understanding the impact which interruptions caused by information |
|  | security incidents are likely to have on the business (it is important that |
|  | solutions are found that will handle incidents causing smaller impact, as |
|  | well as serious incidents that could threaten the viability of the |
|  | organization), and establishing the business objectives of information |
|  | assets; |
|  | • implementing additional preventive detective controls for the critical |
|  | assets identified to mitigate risks to the greatest extent possible; |
|  | • identifying financial, organizational, technical, and environmental |
|  | resources to address the identified information security requirements; |
|  | • testing and updating, at a minimum, a section of the plans and processes |
|  | put in place at least annually; |
|  | • ensuring that the management of business continuity is incorporated in |
|  | the organization's processes and structure; and |
|  | •assigning responsibility for the business continuity management process at |
|  | an appropriate level within the organization. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.02(b)(5) |
| **Mapping:** | 23 NYCRR 500.06(a)(1) |
|  |
|  | CMSRs 2013v2 CP-2 (HIGH) |
|  | CMSRs 2013v2 CP-2(8) (HIGH) |
|  | CRR V2016 AM:G2.Q1 |
|  | CRR V2016 CCM:G1.Q2 |
|  | CRR V2016 EDM:G3.Q1 |
|  | CRR V2016 SCM:G1.Q1 |
|  | CRR V2016 SCM:G3.Q1 |
|  | CRR V2016 SCM:G3.Q3 |
|  |  |

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CRR V2016 SCM:MIL3.Q4

CSA CCM v3.0.1 BCR-09

FedRAMP CP-2

FedRAMP CP-2(8)

FFIEC IS v2016 A.6.35(a)

FFIEC IS v2016 A.6.35(c)

HIPAA § 164.308(a)(7)(i)

HIPAA § 164.308(a)(7)(ii)(B)

HIPAA § 164.308(a)(7)(ii)(C)

HIPAA § 164.308(a)(7)(ii)(D)

HIPAA § 164.308(a)(7)(ii)(E)

HIPAA § 164.310(a)(2)(i)

HIPAA § 164.312(a)(2)(ii)

IRS Pub 1075 v2014 9.3.6.2

ISO 27799-2008 7.11

ISO/IEC 27002:2005 14.1.1

ISO/IEC 27002:2013 17.1.2

MARS-E v2 CP-2

NIST Cybersecurity Framework DE.AE-4

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.BE-5

NIST Cybersecurity Framework PR.IP-9

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-2(8)

NIST SP 800-53 R4 PM-9

**Control Reference: 12.b Business Continuity and Risk Assessment**

**Control Specification:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Events that can cause interruptions to business processes shall be identified, |
|  |  |  | along with the probability and impact of such interruptions and their consequences |
|  |  |  | for information security. |
|  |  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |  |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  | Contingency Planning; IT Organization and Management Roles and |
|  |  |  | Responsibilities; Risk Management and Assessments |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  |  |  |  |

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|  |  |
| --- | --- |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to HITRUST De-ID Framework Requirements |
|  | Subject to MARS-E Requirements |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |
| **Level 1 Implementation:** | This process shall identify the critical business processes. Information security |
|  |
|  | aspects of business continuity shall be based on identifying events (or sequence |
|  | of events) that can cause interruptions to the organization's critical business |
|  | processes (e.g., equipment failure, human errors, theft, fire, natural disasters and |
|  | acts of terrorism). This shall be followed by a risk assessment to determine the |
|  | probability and impact of such interruptions, in terms of time, damage scale and |
|  | recovery period. Based on the results of the risk assessment, a business |
|  | continuity strategy shall be developed to identify the overall approach to business |
|  | continuity. Once this strategy has been created, endorsement shall be provided |
|  | by management, and a plan created and endorsed to implement this strategy. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | 23 NYCRR 500.02(b)(5) |
| **Mapping:** | AICPA CC3.1 |
|  |
|  | CMSRs 2013v2 CP-2 (HIGH) |
|  | CMSRs 2013v2 CP-2(8) (HIGH) |
|  | CRR V2016 AM:G1.Q2 |
|  | CRR V2016 EDM:G3.Q1 |
|  | CRR V2016 SCM:G1.Q2 |
|  | De-ID Framework v1 Physical and Environmental Security: General |
|  | FedRAMP CP-2 |
|  | FedRAMP CP-2(8) |
|  | GDPR Article 32(1)(c) |
|  | HIPAA § 164.308(a)(7)(ii)(A) |
|  | HIPAA § 164.308(a)(7)(ii)(B) |
|  | HIPAA § 164.308(a)(7)(ii)(E) |
|  | IRS Pub 1075 v2014 9.3.6.2 |
|  | ISO 27799-2008 7.11 |
|  | ISO/IEC 27002:2005 14.1.1 |
|  | ISO/IEC 27002:2005 14.1.2 |
|  | ISO/IEC 27002:2013 17.1.1 |
|  | ISO/IEC 27002:2013 17.1.2 |
|  | MARS-E v2 CP-2 |
|  | NIST Cybersecurity Framework DE.AE-4 |
|  | NIST Cybersecurity Framework ID.BE-2 |
|  | NIST Cybersecurity Framework ID.BE-5 |
|  | NIST Cybersecurity Framework ID.RA-1 |
|  |  |

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NIST Cybersecurity Framework ID.RA-3

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST Cybersecurity Framework ID.RM-3

NIST Cybersecurity Framework PR.IP-9

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-2(8)

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to CRR V2016 |
| **Regulatory Factors:** | Subject to Joint Commission Accreditation |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | This process shall identify the critical business processes and integrate the |
|  | information security management requirements of business continuity with other |
|  | continuity requirements relating to such aspects as operations, staffing, materials, |
|  | transport and facilities. The consequences of disasters, security failures, loss of |
|  | service, and service availability shall be subject to a business impact analysis. |
|  | Business continuity risk assessments shall be carried out annually with full |
|  | involvement from owners of business resources and processes. This assessment |
|  | shall consider all business processes and shall not be limited to the information |
|  | assets, but shall include the results specific to information security. It is important |
|  | to link the different risk aspects together to obtain a complete picture of the |
|  | business continuity requirements of the organization. The assessment shall |
|  | identify, quantify, and prioritize risks against key business objectives and criteria |
|  | relevant to the organization, including critical resources, impacts of disruptions, |
|  | allowable outage times, and recovery priorities. |
|  |  |
| **Level 2** | CMSRs 2013v2 PM-8 (HIGH) |
| **Control Standard** | CRR V2016 AM:G3.Q1 |
| **Mapping:** | CRR V2016 AM:G7.Q1 |
|  |
|  | CRR V2016 RM:G2.Q2 |
|  |  |

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CRR V2016 SCM:G1.Q4

CRR V2016 SCM:MIL2.Q4

CRR V2016 SCM:MIL3.Q4

CSA CCM v3.0.1 BCR-09

HIPAA § 164.308(a)(7)(ii)(A)

HIPAA § 164.308(a)(7)(ii)(B)

HIPAA § 164.308(a)(7)(ii)(E)

ISO 27799-2008 7.11

ISO/IEC 27002:2005 14.1.2

ISO/IEC 27002:2013 17.1.1

MARS-E v2 PM-8

NIST Cybersecurity Framework ID.BE-2

NIST Cybersecurity Framework ID.BE-4

NIST Cybersecurity Framework ID.RA-3

NIST Cybersecurity Framework ID.RA-4

NIST Cybersecurity Framework ID.RA-5

NIST Cybersecurity Framework ID.RM-3

NIST SP 800-53 R4 PM-8

NIST SP 800-53 R4 RA-3

**Control Reference: 12.c Developing and Implementing Continuity Plans Including Information Security**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Control Specification:** | Plans shall be developed and implemented to maintain or restore operations and |
|  |  |
|  |  | ensure availability of information, at the required level and in the required time |
|  |  | scales, following interruption to, or failure of, critical business processes. |
|  |  | \*Required for HITRUST Certification CSF v9 |
|  |  |  |
|  | **Factor Type:** | Organizational |
|  |  |  |
|  | **Topics:** | Awareness and Training; Contingency Planning; Documentation and Records; |
|  |  | Physical and Facility Security; Policies and Procedures |
|  | **Level 1 Implementation Requirements** | |
|  |  |  |
|  | **Level 1** | Applicable to all Organizations |
|  | **Organizational Factors:** |  |
|  |  |  |
|  | **Level 1** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 1** | Subject to PCI Compliance |
|  | **Regulatory Factors:** | Subject to Texas Health and Safety Code |
|  |  |  |
|  | **Level 1 Implementation:** | A formal, documented contingency planning policy (addressing purpose, scope, |
|  |  |
|  |  | roles, responsibilities, management commitment, coordination among |
|  |  | organizational entities, and compliance); and formal, documented procedures (to |

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facilitate the implementation of the contingency planning policy and associated contingency planning controls) shall be developed, disseminated, and reviewed annually.

The business continuity planning process shall include the following:

* implementation of the procedures to allow recovery and restoration of business operations and availability of information in required time-scales;
* particular attention shall be given to the assessment of internal and external business dependencies and the contracts in place;
* documentation of agreed procedures and processes; and
* testing and updating of at least a section of the plans.

The planning process shall focus on the required business objectives (e.g., restoring of specific communication services to customers in an acceptable amount of time). The procedures for obtaining necessary electronic covered information during an emergency shall be defined. The services and resources facilitating this shall be identified, including staffing, non-information processing resources, as well as fallback arrangements for information processing facilities. Such fallback arrangements may include arrangements with third parties in the form of reciprocal agreements, or commercial subscription services. The organization shall coordinate contingency planning activities with incident handling activities. Developed business continuity plans shall:

* identify essential missions and business functions and associated contingency requirements;
* provide recovery objectives, restoration priorities, and metrics;
* address contingency roles, responsibilities, assigned individuals with contact information;
* address maintaining essential missions and business functions despite an information system disruption, compromise, or failure;
* address eventual, full information system restoration without deterioration of the security measures originally planned and implemented;
* be reviewed and approved by designated officials within the organization; and
* be protected from unauthorized disclosure and modification.

Continuity and recovery plans shall be developed and documented to deal with system interruptions and failures caused by malicious code. Business continuity plans shall include recovering from malicious code attacks, including all necessary data and software back-up and recovery arrangements.

Copies of the business continuity plans shall be distributed to the Information System Security Officer, System Owner, Contingency Plan Coordinator, System Administrator, and Database Administrator (or the organization's functional equivalents).

If alternative temporary locations are used, the level of implemented security controls at these locations shall have logical and physical access controls that are equivalent to the primary site, consistent with the HITRUST CSF.

The information system implements transaction recovery for systems that are transaction-based.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |

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**Control Standard Mapping:**

1 TAC § 390.2(a)(4)(A)(xi)

AICPA A1.2

AICPA A1.3

AICPA CC3.1

AICPA CC3.2

CMSRs 2013v2 CP-1 (HIGH)

CMSRs 2013v2 CP-10(2) (HIGH)

CMSRs 2013v2 CP-10(4) (HIGH)

CMSRs 2013v2 CP-2 (HIGH)

CMSRs 2013v2 CP-2(1) (HIGH)

CMSRs 2013v2 CP-2(2) (HIGH)

CMSRs 2013v2 CP-2(3) (HIGH)

CMSRs 2013v2 CP-2(4) (HIGH)

CMSRs 2013v2 CP-2(5) (HIGH)

CMSRs 2013v2 CP-7 (HIGH)

CRR V2016 AM:G7.Q2

CRR V2016 CCM:G1.Q2

CRR V2016 CCM:G1.Q3

CRR V2016 EDM:G3.Q2

CRR V2016 SCM:G1.Q4

CRR V2016 SCM:G1.Q5

CRR V2016 SCM:G1.Q6

CRR V2016 SCM:G2.Q1

CRR V2016 SCM:G3.Q3

CRR V2016 SCM:MIL2.Q1

CRR V2016 SCM:MIL2.Q3

CRR V2016 SCM:MIL2.Q4

CRR V2016 SCM:MIL3.Q1

CRR V2016 SCM:MIL3.Q2

CRR V2016 SCM:MIL4.Q3

CRR V2016 SCM:MIL5.Q1

CSA CCM v3.0.1 BCR-09

De-ID Framework v1 Physical and Environmental Security: General

FedRAMP CP-1

FedRAMP CP-2

FedRAMP CP-2(1)

FedRAMP CP-2(2)

FedRAMP CP-2(3)

FedRAMP CP-7

GDPR Article 32(1)(c)

HIPAA § 164.308(a)(7)(i)

HIPAA § 164.308(a)(7)(ii)(A)

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HIPAA § 164.308(a)(7)(ii)(B)

HIPAA § 164.308(a)(7)(ii)(C)

HIPAA § 164.308(a)(7)(ii)(E)

HIPAA § 164.310(a)(2)(i)

HIPAA § 164.310(d)(2)(iv)

HIPAA § 164.312(a)(2)(ii)

HIPAA § 164.312(c)(1)

IRS Pub 1075 v2014 9.3.6.1

IRS Pub 1075 v2014 9.3.6.2

ISO/IEC 27002:2005 14.1.3

ISO/IEC 27002:2013 17.1.2

JCAHO IM.01.01.03, EP 2

JCAHO IM.01.01.03, EP 4

MARS-E v2 CP-1

MARS-E v2 CP-10(2)

MARS-E v2 CP-10(3)

MARS-E v2 CP-2

MARS-E v2 CP-2(1)

MARS-E v2 CP-2(2)

MARS-E v2 CP-7

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.BE-4

NIST Cybersecurity Framework ID.BE-5

NIST Cybersecurity Framework PR.DS-1

NIST Cybersecurity Framework PR.DS-4

NIST Cybersecurity Framework PR.IP-7

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RC.CO-3

NIST Cybersecurity Framework RC.RP-1

NIST Cybersecurity Framework RS.CO-1

NIST Cybersecurity Framework RS.CO-4

NIST SP 800-53 R4 CP-1

NIST SP 800-53 R4 CP-10(2)

NIST SP 800-53 R4 CP-10(4)

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-2(1)

NIST SP 800-53 R4 CP-2(2)

NIST SP 800-53 R4 CP-2(3)

NIST SP 800-53 R4 CP-2(5)

NIST SP 800-53 R4 CP-7

NRS 603A.215.1

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PCI DSS v3.2 12.10.1

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

PMI DSP Framework RC-1

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to HITRUST De-ID Framework Requirements |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to Joint Commission Accreditation |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The business continuity planning process shall include the following: |
|  |  | • identification and agreement of all responsibilities and business continuity |
|  |  | procedures; |
|  |  | • identification of the acceptable loss of information and services; |
|  |  | • operational procedures to follow pending completion of response, |
|  |  | recovery and restoration including: |
|  |  | • alternative storage and processing site possibilities; and |
|  |  | • emergency power and back-up telecommunications to the |
|  |  | primary site. |
|  |  | • appropriate education of staff in the agreed procedures and processes, |
|  |  | including crisis management. |
|  |  | Business continuity plans shall address organizational vulnerabilities and |
|  |  | therefore may contain covered information that needs to be appropriately |
|  |  | protected. Copies of business continuity plans shall be stored in a remote |
|  |  | location, at a sufficient distance to escape any damage from a disaster at the |
|  |  | main site. Management shall ensure copies of the business continuity plans are |
|  |  | up to date and protected with the same level of physical and logical security as |
|  |  | applied at the main site. Other material necessary to execute the continuity plans |
|  |  | shall also be stored at the remote location. |
|  |  | The organization shall identify alternative temporary locations for processing. The |

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necessary third-party service agreements shall be established to allow for the transfer and resumption of information systems operations of critical business functions within a time-period (e.g., priority of service provisions) as defined by a risk assessment (see 12.b). The organization shall identify potential accessibility problems to the alternate storage site in the event of an area-wide disruption or disaster and outline explicit mitigation actions. The alternate location shall be at a sufficient distance to escape any damage from a disaster at the main site.

The type of configuration for the alternate site shall be defined by the risk assessment (see 12.b). Acceptable solutions include:

* cold sites - a facility with adequate space and infrastructure to support the system;
* warm sites - partially equipped office spaces that contain some or all of the system hardware, software, telecommunications and power sources;
* hot sites - office spaces configured with all of the necessary system hardware, supporting infrastructure and personnel; and/or
* mobile sites - self-contained, transportable shells custom-fitted with IT and telecommunications equipment necessary to meet the system requirements.

The organization shall identify potential accessibility problems to the alternate processing site in the event of an area-wide disruption or disaster and outline explicit mitigation actions. The organization develops alternate processing site agreements that contain Priority-of-Service provisions in accordance with the organization's availability requirements, including recovery time objectives (RTOs). The organization shall ensure that the alternate processing site provides information security measures equivalent to that of the primary site.

|  |  |
| --- | --- |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | AICPA A1.3 |
| **Mapping:** | CMSRs 2013v2 CP-2 (HIGH) |
|  |
|  | CMSRs 2013v2 CP-6 (HIGH) |
|  | CMSRs 2013v2 CP-6(1) (HIGH) |
|  | CMSRs 2013v2 CP-6(2) (HIGH) |
|  | CMSRs 2013v2 CP-6(3) (HIGH) |
|  | CMSRs 2013v2 CP-7 (HIGH) |
|  | CMSRs 2013v2 CP-7(1) (HIGH) |
|  | CMSRs 2013v2 CP-7(2) (HIGH) |
|  | CMSRs 2013v2 CP-7(3) (HIGH) |
|  | CMSRs 2013v2 CP-7(4) (HIGH) |
|  | CMSRs 2013v2 CP-9 (HIGH) |
|  | CMSRs 2013v2 CP-9(2) (HIGH) |
|  | CRR V2016 SCM:G1.Q5 |
|  | CRR V2016 SCM:G1.Q6 |
|  | CRR V2016 SCM:MIL3.Q1 |
|  | CRR V2016 SCM:MIL3.Q2 |
|  | De-ID Framework v1 Physical and Environmental Security: General |

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FedRAMP CP-2

FedRAMP CP-6

FedRAMP CP-6(1)

FedRAMP CP-6(3)

FedRAMP CP-7

FedRAMP CP-7(1)

FedRAMP CP-7(2)

FedRAMP CP-7(3)

FFIEC IS v2016 A.6.35(a)

FFIEC IS v2016 A.6.35(b)

HIPAA § 164.308(a)(7)(i)

HIPAA § 164.308(a)(7)(ii)(B)

HIPAA § 164.308(a)(7)(ii)(c)

HIPAA § 164.310(a)(2)(i)

IRS Pub 1075 v2014 9.3.6.2

IRS Pub 1075 v2014 9.3.6.5

IRS Pub 1075 v2014 9.3.6.6

IRS Pub 1075 v2014 9.3.6.7

ISO 27799-2008 7.11

ISO/IEC 27002:2005 14.1.3

ISO/IEC 27002:2005 14.1.4

ISO/IEC 27002:2005 9.2.2

ISO/IEC 27002:2013 17.1.2

ISO/IEC 27002:2013 A.11.2.2

JCAHO IM.01.01.03, EP 1

JCAHO IM.01.01.03, EP 2

JCAHO IM.01.01.03, EP 3

MARS-E v2 CP-2

MARS-E v2 CP-6

MARS-E v2 CP-6(1)

MARS-E v2 CP-6(3)

MARS-E v2 CP-7

MARS-E v2 CP-7(1)

MARS-E v2 CP-7(2)

MARS-E v2 CP-7(3)

MARS-E v2 CP-7(5)

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.BE-4

NIST Cybersecurity Framework ID.BE-5

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.DS-1

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NIST Cybersecurity Framework PR.DS-4

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RS.CO-1

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-6

NIST SP 800-53 R4 CP-6(1)

NIST SP 800-53 R4 CP-6(3)

NIST SP 800-53 R4 CP-7

NIST SP 800-53 R4 CP-7(1)

NIST SP 800-53 R4 CP-7(2)

NIST SP 800-53 R4 CP-7(3)

NIST SP 800-53 R4 CP-7(4)

NIST SP 800-53 R4 CP-9

NIST SP 800-53 R4 CP-9(2)

**Level 3 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  | **Level 3** | Bed: Greater than 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Greater than 7.5 Million Lives |
|  |  | HIE Transactions: More than 6 Million Transactions |
|  |  | Hospital Admissions: More than 20k Patients |
|  |  | IT Service Provider: More than 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: More than 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Greater than 60 million Prescriptions |
|  |  | Physician Count: Greater than 25 Physicians |
|  |  | Physician Encounters: Greater than 180k Encounters |
|  |  | Record Count Annual: More than 725k Records |
|  |  | Record Total: More than 60 Million Records |
|  |  |  |
|  | **Level 3** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 3** | Subject to FedRAMP Certification |
|  | **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  | Subject to the CMS Minimum Security Requirements (High) |
|  |  |  |
|  | **Level 3 Implementation:** | Level 2 plus: |
|  |  |
|  |  | The organization establishes alternate telecommunications services, including |
|  |  | necessary agreements to permit the resumption of information system operations |
|  |  | for essential missions and business functions within business defined time period, |
|  |  | when the primary telecommunications capabilities are unavailable at either the |
|  |  | primary or alternate processing or storage sites. |
|  |  | The organization: |
|  |  | • Develops primary and alternate telecommunications service agreements |
|  |  | that contain priority-of-service provisions in accordance with |
|  |  | organizational availability requirements (including recovery time |

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|  |  |  |
| --- | --- | --- |
|  |  | objectives); and |
|  | • Requests Telecommunications Service Priority for all telecommunications | |
|  |  | services used for national security emergency preparedness in the event |
|  |  | that the primary and/or alternate telecommunications services are |
|  |  | provided by a common carrier. |
|  | The organization shall provide for the recovery and reconstitution of the | |
|  | information system to a known state after a disruption, compromise, or failure. | |
|  | Recovery of the information system after a failure or other contingency shall be | |
|  | done in a trusted, secure, and verifiable manner. | |
|  | Secure information system recovery and reconstitution shall include, but is not | |
|  | limited to: | |
|  | • reset all system parameters (either default or organization-established), | |
|  | • | reinstall patches, |
|  | • | reestablish configuration settings, |
|  | • reinstall application and system software, and | |
|  | • fully test the system. | |
|  |  | |
| **Level 3** | AICPA A1.3 | |
| **Control Standard** | CMSRs 2013v2 CP-10 (HIGH) | |
| **Mapping:** | CMSRs 2013v2 CP-8 (HIGH) | |
|  |
|  | CMSRs 2013v2 CP-8(1) (HIGH) | |
|  | CMSRs 2013v2 CP-8(2) (HIGH) | |
|  | CMSRs 2013v2 CP-8(3) (HIGH) | |
|  | CMSRs 2013v2 CP-8(4) (HIGH) | |
|  | FedRAMP CP-10 | |
|  | FedRAMP CP-10(2) | |
|  | FedRAMP CP-8(1) | |
|  | FedRAMP CP-8(2) | |
|  | HIPAA § 164.308(a)(7)(i) | |
|  | HIPAA § 164.308(a)(7)(ii)(B) | |
|  | ISO/IEC 27002:2005 14.1.4 | |
|  | ISO/IEC 27002:2013 17.1.2 | |
|  | MARS-E v2 CP-10 | |
|  | MARS-E v2 CP-8 | |
|  | MARS-E v2 CP-8(1) | |
|  | MARS-E v2 CP-8(2) | |
|  | NIST Cybersecurity Framework ID.AM-5 | |
|  | NIST Cybersecurity Framework ID.BE-5 | |
|  | NIST SP 800-53 R4 CP-10 | |
|  | NIST SP 800-53 R4 CP-11 | |
|  | NIST SP 800-53 R4 CP-8 | |
|  | NIST SP 800-53 R4 CP-8(1) | |
|  | NIST SP 800-53 R4 CP-8(2) | |
|  |  |  |

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**Level CMS Implementation Requirements Level CMS Implementation:**

The business continuity plan shall:

* identify essential CMS missions and business functions and associated contingency requirements;
* address maintaining essential CMS missions and business functions despite an information system disruption, compromise, or failure.

The organization plans for the resumption of essential missions and business functions within the approved Maximum Tolerable Downtime (MTD) for the business functions.

Ensure all equipment and supplies required for resuming system operations at the alternate processing site are available, or contracts are in place to support delivery to the site, to permit resumption of system Recovery Time Objectives (RTOs) and business function Maximum Tolerable Downtimes (MTDs).

Ensure alternate telecommunications Service Level Agreements (SLAs) are in place to permit resumption of system Recovery Time Objectives (RTOs) and business function Maximum Tolerable Downtimes (MTDs).

The organization prepares the alternate processing site so that the site is ready to be used as the operational site supporting essential CMS missions and business functions.

The organization shall provide the capability to reimage information system components and support target recovery times from configuration-controlled and integrity-protected disk images representing a secure, operational state for the components.

The organization shall conduct capacity planning so that necessary capacity for information processing, telecommunications, and environmental support exists during contingency operations.

The organization shall configure the alternate storage site to facilitate recovery operations in accordance with recovery time and recovery point objectives.

The organization plans for the continuance of Primary Mission Essential Functions (PMEFs) with little or no loss of operational continuity and sustains that continuity until full information system restoration at primary processing and/or storage sites.

The organization shall use a sample of backup information in the restoration of selected information system functions as part of contingency plan testing (see 12.e, Level 2).

The organization includes a full recovery and reconstitution of the information system to a known state as part of contingency plan testing.

Alternate telecommunications service providers that are sufficiently separated from the organizations primary service provider are identified, and agreements are established, to ensure these service providers are not susceptible to the same

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hazards.

The organization:

* Requires primary and alternate telecommunications service providers to have contingency plans;
* Reviews provider contingency plans to ensure that the plans meet organizational contingency requirements; and
* Obtains evidence of contingency testing/training by providers within every three hundred sixty-five (365) days.

The organization plans for the resumption of all missions and business functions within the approved Maximum Tolerable Downtime (MTD) for the business functions.

**Level EHNAC Implementation Requirements**

**Level EHNAC Implementation:**

The business continuity plans shall provide assurance that all critical services will be operational with a defined RPO (Recovery Point Objective) that does not exceed 48 hours, and a defined RTO (Recovery Time Objective) that does not exceed 48 hours.

**Level FedRAMP Implementation Requirements**

**Level FedRAMP Implementation:**

The service provider defines a time period consistent with the recovery time objectives and business impact analysis for alternative processing sites.

The organization ensures alternate telecommunications Service Level Agreements (SLAs) are in place with the service provider to permit the resumption of information system operations for essential missions and business functions within Recovery Time Objectives and business impact analysis when primary telecommunications capabilities are unavailable.

The service provider ensures that individuals conducting incident handling meet personnel security requirements commensurate with the criticality/sensitivity of the information being processed, stored, and transmitted by the information system.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

The agency must identify alternative storage sites and initiate necessary agreements to permit the secure storage of information system and FTI backups, and ensure the alternative storage sites provide information security safeguards that meet the minimum FTI protection and disclosure provisions of IRS 6103.

**Level HIX Implementation Requirements Level HIX Implementation:**

Ensure all equipment and supplies required for resuming system operations at the alternate processing site are available, or contracts are in place to support delivery to the site, to permit resumption of essential missions and business

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functions within one (1) week of contingency plan activation.

The organization ensures alternate telecommunications Service Level Agreements (SLAs) are in place to permit resumption of information system operations for essential missions and business functions within a system owner defined, business owner approved time period consistent with the Recovery Time Objectives, Maximum Tolerable Downtimes (MTDs) and business impact analysis for the system when primary telecommunications capabilities are unavailable.

**Control Reference: 12.d Business Continuity Planning Framework**

**Control Specification:**

|  |  |
| --- | --- |
|  | A single framework of business continuity plans shall be maintained to ensure all |
|  | plans are consistent, to consistently address information security requirements, |
|  | and to identify priorities for testing and maintenance. |
|  | \*Required for HITRUST Certification CSF v9 |
|  |  |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Contingency Planning; IT Organization and Management Roles and |
|  | Responsibilities; Maintenance; Policies and Procedures; Services and |
|  | Acquisitions |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to FISMA Compliance |
| **Regulatory Factors:** | Subject to IRS Pub 1075 Compliance |
|  | Subject to Joint Commission Accreditation |
|  | Subject to MARS-E Requirements |
|  | Subject to Texas Health and Safety Code |
|  | Subject to the CMS Minimum Security Requirements (High) |

**Level 1 Implementation:**

The organization shall create, at a minimum, one (1) business continuity plan. The business continuity plan shall describe the approach for continuity ensuring, at a minimum, the approach to maintain information or information asset availability and security. The plan shall also specify the escalation plan and the conditions for its activation, as well as the individuals responsible for executing each component of the plan. When new requirements are identified, any existing emergency procedures (e.g., evacuation plans or fallback arrangements) shall be amended as appropriate.

The plan shall have a specific owner. Emergency procedures, manual "fallback" procedures, and resumption plans shall be within the responsibility of the owner of the business resources or processes involved. Fallback arrangements for alternative technical services, such as information processing and communications facilities, shall usually be the responsibility of the service

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|  |  |
| --- | --- |
|  | providers. |
|  | The business continuity planning framework shall address the identified |
|  | information security requirements, including the following: |
|  | • the conditions for activating the plans which describe the process to be |
|  | followed (e.g., how to assess the situation, who is to be involved) before |
|  | each plan is activated; |
|  | • emergency procedures which describe the actions to be taken following |
|  | an incident that jeopardizes business operations; |
|  | • fallback procedures which describe the actions to be taken to move |
|  | essential business activities or support services to alternative temporary |
|  | locations, and to bring business processes back into operation in the |
|  | required time scales; |
|  | • resumption procedures which describe the actions to be taken to return to |
|  | normal business operations; |
|  | • a maintenance schedule which specifies how and when the plan will be |
|  | tested, and the process for maintaining the plan; |
|  | • awareness, education, and training activities which are designed to create |
|  | understanding of the business continuity processes and ensure that the |
|  | processes continue to be effective; and |
|  | • the critical assets and resources needed to be able to perform the |
|  | emergency, fallback and resumption procedures. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Mapping:** | AICPA CC3.2 |
|  |
|  | CMSRs 2013v2 CP-2 (HIGH) |
|  | CRR V2016 SCM:G1.Q3 |
|  | CRR V2016 SCM:G3.Q2 |
|  | CRR V2016 SCM:G4.Q1 |
|  | CSA CCM v3.0.1 BCR-01 |
|  | FedRAMP CP-2 |
|  | FFIEC IS v2016 A.6.35(a) |
|  | FFIEC IS v2016 A.6.35(c) |
|  | GDPR Article 32(1)(c) |
|  | HIPAA § 164.308(a)(7)(i) |
|  | HIPAA § 164.308(a)(7)(ii)(B) |
|  | HIPAA § 164.308(a)(7)(ii)(C) |
|  | HIPAA § 164.308(a)(7)(ii)(E) |
|  | HIPAA § 164.310(a)(2)(i) |
|  | HIPAA § 164.312(a)(2)(ii) |
|  | IRS Pub 1075 v2014 9.3.6.2 |
|  | ISO/IEC 27002:2005 14.1.4 |
|  | ISO/IEC 27002:2013 17.1.2 |
|  | JCAHO IM.01.01.03, EP 1 |
|  | MARS-E v2 CP-2 |
|  |  |

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NIST Cybersecurity Framework DE.AE-5

NIST Cybersecurity Framework ID.AM-5

NIST Cybersecurity Framework ID.AM-6

NIST Cybersecurity Framework ID.BE-5

NIST Cybersecurity Framework PR.AT-1

NIST Cybersecurity Framework PR.IP-7

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RS.CO-1

NIST SP 800-53 R4 CP-2

Phase 1 CORE 102: Eligibility and Benefits Certification Policy v1.1.0 Subsection 3.3

Phase 2 CORE 202: Certification Policy v2.1.0 Subsection 3.3

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to CRR V2016 |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Each business unit shall create, at a minimum, one (1) business continuity plan. |
|  | Procedures shall be included within the organization's change management |
|  | program to ensure that business continuity matters are always addressed and |
|  | timely as part of the change management process. |
|  | A business continuity planning framework shall address the identified information |
|  | security requirements and the following: |
|  | • temporary operational procedures to follow pending completion of |
|  | recovery and restoration; and |
|  | • the responsibilities of the individuals, describing who is responsible for |
|  | executing which component of the plan. Alternatives should be nominated |
|  | as required. |
|  |  |
| **Level 2** | CRR V2016 SCM:G1.Q3 |
| **Control Standard** | HIPAA § 164.308(a)(7)(i) |
|  |  |

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|  |  |
| --- | --- |
| **Mapping:** | HIPAA § 164.308(a)(7)(ii)(C) |
|  | HIPAA § 164.310(a)(2)(i) |
|  | HIPAA § 164.312(a)(2)(ii) |
|  | ISO 27799-2008 7.11 |
|  | ISO/IEC 27002:2005 14.1.4 |
|  | ISO/IEC 27002:2013 17.1.2 |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST Cybersecurity Framework PR.AT-1 |
|  | NIST Cybersecurity Framework PR.IP-9 |
|  | NIST Cybersecurity Framework RS.CO-1 |
|  |  |

**Control Reference: 12.e Testing, Maintaining and Re-Assessing Business Continuity Plans**

**Control Specification:** Business continuity plans shall be tested and updated regularly, at a minimum annually, to ensure that they are up to date and effective.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** | Awareness and Training; Contingency Planning; IT Organization and |
|  | Management Roles and Responsibilities; Personnel |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to Joint Commission Accreditation |
| **Regulatory Factors:** | Subject to Texas Health and Safety Code |

**Level 1 Implementation:**

Business continuity plan tests shall ensure that all members of the recovery team and other relevant staff are aware of the plans and their responsibility for business continuity and information security and know their role when a plan is invoked.

The test schedule for business continuity plan(s) shall indicate how and when each element of the plan is tested. These techniques shall be applied on a 'programmatic' basis such that the tests build upon one another, and in a way that is relevant to the specific response and recovery plan. The results of tests shall be recorded and actions taken to improve the plans, where necessary. Updates will also consider lessons learned from implementation of the business continuity plan(s).

Responsibility shall be assigned for regular reviews of at least a part of the business continuity plan, at a minimum, annually. The identification of changes in business arrangements not yet reflected in the business continuity plan shall be followed by an update of the plan.

Changes where updating of business continuity plans shall be made are acquisition of new equipment, upgrading of systems and changes in:

* personnel;

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|  |  |
| --- | --- |
|  | • location, facilities, and resources; |
|  | • legislation; |
|  | • processes, or new or withdrawn ones; |
|  | • risk (operational and financial). |
|  |  |
| **Level 1** | AICPA A1.3 |
| **Control Standard** | CMSRs 2013v2 CP-2 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CP-4 (HIGH) |
|  |
|  | CRR V2016 CCM:G1.Q2 |
|  | CRR V2016 SCM:G1.Q3 |
|  | CRR V2016 SCM:G2.Q1 |
|  | CRR V2016 SCM:G3.Q2 |
|  | CRR V2016 SCM:G3.Q3 |
|  | CRR V2016 SCM:G3.Q4 |
|  | CRR V2016 SCM:G3.Q5 |
|  | CRR V2016 SCM:G4.Q2 |
|  | CRR V2016 SCM:G4.Q3 |
|  | CRR V2016 SCM:MIL3.Q2 |
|  | CRR V2016 SCM:MIL4.Q1 |
|  | CRR V2016 SCM:MIL5.Q2 |
|  | CSA CCM v3.0.1 BCR-02 |
|  | FedRAMP CP-2 |
|  | FedRAMP CP-4 |
|  | FedRAMP CP-4(1) |
|  | GDPR Article 32(1)(d) |
|  | HIPAA § 164.308(a)(7)(ii)(B) |
|  | HIPAA § 164.308(a)(7)(ii)(C) |
|  | HIPAA § 164.308(a)(7)(ii)(D) |
|  | HIPAA § 164.308(a)(7)(ii)(E) |
|  | HIPAA § 164.308(a)(8) |
|  | HIPAA § 164.310(a)(2)(i) |
|  | HIPAA § 164.312(a)(2)(ii) |
|  | ISO 27799-2008 7.11 |
|  | ISO/IEC 27002:2005 14.1.5 |
|  | ISO/IEC 27002:2013 17.1.3 |
|  | JCAHO IM.01.01.03, EP 5 |
|  | MARS-E v2 CP-2 |
|  | MARS-E v2 CP-4 |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  | NIST Cybersecurity Framework ID.GV-3 |
|  | NIST Cybersecurity Framework PR.IP-10 |
|  | NIST Cybersecurity Framework PR.IP-7 |
|  | NIST Cybersecurity Framework PR.IP-9 |
|  |  |

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NIST Cybersecurity Framework RC.IM-1

NIST Cybersecurity Framework RC.IM-2

NIST Cybersecurity Framework RS.CO-1

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-4

PMI DSP Framework RC-3

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to Banking Requirements |
|  | **Regulatory Factors:** | Subject to CRR V2016 |
|  |  | Subject to EHNAC Accreditation |
|  |  | Subject to FedRAMP Certification |
|  |  | Subject to FISMA Compliance |
|  |  | Subject to IRS Pub 1075 Compliance |
|  |  | Subject to MARS-E Requirements |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | Each element of the plan(s) shall be tested at least annually. |
|  |  | A variety of techniques shall be used in order to provide assurance that the |
|  |  | plan(s) will operate in real life including: |
|  |  | • table-top testing of various scenarios (discussing the business recovery |
|  |  | arrangements using example interruptions); |
|  |  | • simulations (particularly for training people in their post-incident/crisis |
|  |  | management roles); |
|  |  | • technical recovery testing (ensuring information systems can be restored |
|  |  | effectively) including: |
|  |  | • system parameters are set to secure values; |
|  |  | • security critical patches are reinstalled; |
|  |  | • security configuration settings are reset; |
|  |  | • system documentation and operating procedures are readily |
|  |  | available; |
|  |  | • application system software is reinstalled and configured with |
|  |  | secure settings; and |

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|  |  |
| --- | --- |
|  | information from the most recent secure back-up(s) is loaded; |
|  | • testing recovery at an alternate site (running business processes in |
|  | parallel with recovery operations away from the main site); |
|  | • tests of supplier facilities and services (ensuring externally provided |
|  | services and products will meet the contracted commitment); |
|  | • complete rehearsals (testing that the organization, personnel, equipment, |
|  | facilities, and processes can cope with interruptions). |
|  | The organization shall review test results and initiate corrective actions to ensure |
|  | the continued effectiveness of the plan. |
|  | Responsibility shall be assigned for regular formal reviews of each business |
|  | continuity plan, which shall ensure that the updated plans are distributed and |
|  | reinforced by yearly reviews of the complete plan. |
|  | The organization shall coordinate business continuity plan testing and/or |
|  | exercises with organizational elements responsible for related plans. |
|  |  |
| **Level 2** | 1 TAC § 390.2(a)(4)(A)(xi) |
| **Control Standard** | CMSRs 2013v2 CP-2 (HIGH) |
| **Mapping:** | CMSRs 2013v2 CP-4 (HIGH) |
|  |
|  | CMSRs 2013v2 CP-4(1) (HIGH) |
|  | CMSRs 2013v2 CP-4(2) (HIGH) |
|  | CMSRs 2013v2 CP-4(4) (HIGH) |
|  | CRR V2016 SCM:G2.Q1 |
|  | CRR V2016 SCM:G3.Q4 |
|  | CRR V2016 SCM:G3.Q5 |
|  | CRR V2016 SCM:MIL3.Q2 |
|  | CRR V2016 SCM:MIL4.Q1 |
|  | FedRAMP CP-2 |
|  | FedRAMP CP-4 |
|  | FFIEC IS v2016 A.6.35(c) |
|  | HIPAA § 164.308(a)(7)(ii)(B) |
|  | HIPAA § 164.308(a)(7)(ii)(D) |
|  | HIPAA § 164.308(a)(7)(ii)(E) |
|  | HIPAA § 164.310(a)(2)(i) |
|  | IRS Pub 1075 v2014 9.3.6.2 |
|  | IRS Pub 1075 v2014 9.3.6.4 |
|  | ISO 27799-2008 7.11 |
|  | ISO/IEC 27002:2005 14.1.5 |
|  | ISO/IEC 27002:2013 17.1.3 |
|  | JCAHO IM.01.01.03, EP 5 |
|  | MARS-E v2 CP-2 |
|  | MARS-E v2 CP-4 (HIGH) |
|  | MARS-E v2 CP-4(1) |
|  | NIST Cybersecurity Framework ID.AM-6 |
|  |  |

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NIST Cybersecurity Framework ID.GV-3

NIST Cybersecurity Framework PR.IP-10

NIST Cybersecurity Framework PR.IP-7

NIST Cybersecurity Framework PR.IP-9

NIST Cybersecurity Framework RC.IM-1

NIST Cybersecurity Framework RC.IM-2

NIST Cybersecurity Framework RC-IM-2

NIST Cybersecurity Framework RS.CO-1

NIST SP 800-53 R4 CP-2

NIST SP 800-53 R4 CP-4

NIST SP 800-53 R4 CP-4(1)

NIST SP 800-53 R4 CP-4(2)

NIST SP 800-53 R4 CP-4(4)

**Level CMS Implementation Requirements Level CMS Implementation:**

The organization shall test/exercise the contingency plan at the alternate processing site to familiarize contingency personnel with the facility and available resources and to evaluate the site's capabilities to support contingency operations.

The organization shall include a full recovery and reconstitution of the information system to a known state as part of contingency plan testing.

**Level FTI Custodians Implementation Requirements**

**Level FTI Custodians Implementation:**

Both incremental and special purpose data backup procedures are required, combined with off-site storage protections and regular test-status restoration, to validate disaster recovery and business process continuity. Standards and guidelines for these processes are bound by agency policy and are tested and verified.

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**Control Category: 13.0 - Privacy Practices**

**Objective Name: 13.01 Openness and Transparency**

**Control**

**Objective:** To ensure openness and transparency about policies, procedures, and technologies that directly affect individuals and/or their individually identifiable

health information.

**Control Reference: 13.a Notice of Privacy Practices**

**Control Specification:** Individuals have a right to adequate notice of the uses and disclosures of protected health information that may be made by the covered entity, and of the individual's rights and the entity's legal duties with respect to protected health information.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

The organization uses and discloses PHI PII lawfully, fairly and in a transparent manner, and such uses or disclosures are consistent with its privacy notice.

The covered entity provides individuals with an appropriate notice of the potential uses and disclosures of their PHI that contains required elements (e.g., header, descriptions of uses with at least one example, requirements for authorization).

The covered entity must provide appropriate plain-language notice, in the manner and timeframe required (via mail, email, Website posting) by applicable law and/or regulation.

If the covered entity provides a health plan, the covered entity provides notice or notices relevant to the individual (other than an inmate) no later than the compliance date or upon enrollment thereafter, within sixty (60) days of a material revision, and no less than every three (3) years.

A covered entity may provide the notice of privacy practices to an individual by email, if the individual agrees to electronic notice, and the agreement has not been withdrawn.

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|  |  |  |
| --- | --- | --- |
|  |  | The organization provides information and otherwise communicates with |
|  |  | individuals about the processing of their PII in a concise, transparent, intelligible |
|  |  | and easily accessible form, using clear and plain language, and in particular for |
|  |  | any information specifically addressed to a child. Such communication may be |
|  |  | provided orally when requested by the individual, provided the identity of the |
|  |  | individual is proven by other means. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | CMSRs 2013v2 AP-1 (HIGH) |
|  | **Mapping:** | CMSRs 2013v2 TR-1 (HIGH) |
|  |  |
|  |  | CMSRs 2013v2 TR-3 (HIGH) |
|  |  | CMSRs 2013v2 UL-1 (HIGH) |
|  |  | GDPR Article 12(1) |
|  |  | GDPR Article 12(1) |
|  |  | GDPR Article 13(1)(a) |
|  |  | GDPR Article 13(1)(c) |
|  |  | GDPR Article 14(2) |
|  |  | GDPR Article 5(1)(a) |
|  |  | GDPR Article 5(2) |
|  |  | HIPAA § 164.502(i) |
|  |  | HIPAA § 164.520(a) |
|  |  | HIPAA § 164.520(b) |
|  |  | HIPAA § 164.520(c) |
|  |  | HIPAA § 164.520(c)(1) |
|  |  | HIPAA § 164.520(c)(3) |
|  |  | HIPAA § 164.530(i)(4) |
|  |  | HIPAA § 164.530(j) |
|  |  | MARS-E v2 AP-1 |
|  |  | MARS-E v2 TR-1 |
|  |  | MARS-E v2 TR-3 |
|  |  | MARS-E v2 UL-1 |
|  |  | NIST SP 800-53 R4 AP-1 |
|  |  | NIST SP 800-53 R4 TR-1 |
|  |  | NIST SP 800-53 R4 TR-3 |
|  |  | NIST SP 800-53 R4 UL-1 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |

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|  |  |
| --- | --- |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | When statutory language is written broadly, and thus subject to interpretation, |
|  | organizations shall ensure, in consultation with the Senior Agency Official for |
|  | Privacy (SAOP)/Chief Privacy Officer (CPO) and legal counsel, that there is a |
|  | close link between the general authorization and any specific collection of |
|  | personally identifiable information (PII). Once the specific purposes have been |
|  | identified, the purposes are clearly described in the related privacy compliance |
|  | documentation including, but not limited to, Privacy Impact Assessments (PIAs), |
|  | System of Records Notices (SORNs), and Privacy Act Statements provided at the |
|  | time of collection (e.g., on forms organizations use to collect PII). |
|  | The organization provides real-time and/or layered notice when it collects PII. |
|  | The organization: |
|  | • publishes System of Records Notices (SORNs) in the Federal Register, |
|  | subject to required oversight processes, for systems containing PII; |
|  | • keeps SORNs current; and |
|  | • includes Privacy Act Statements on its forms that collect PII, or on |
|  | separate forms that can be retained by individuals, to provide additional |
|  | formal notice to individuals from whom the information is being collected. |
|  | The organization publishes SORNs on its public Website. |
|  |  |
| **Level 2** | CMSRs 2013v2 AP-2 (HIGH) |
| **Control Standard** | CMSRs 2013v2 TR-1(1) (HIGH) |
| **Mapping:** | CMSRs 2013v2 TR-2 (HIGH) |
|  |
|  | CMSRs 2013v2 TR-2(1) (HIGH) |
|  | MARS-E v2 AP-3 |
|  | MARS-E v2 TR-1(1) |
|  | MARS-E v2 TR-2 |
|  | MARS-E v2 TR-2(1) |
|  | NIST SP 800-53 R4 AP-2 |
|  | NIST SP 800-53 R4 TR-1(1) |
|  | NIST SP 800-53 R4 TR-2 |
|  | NIST SP 800-53 R4 TR-2(1) |
|  |  |

**Level GDPR Implementation Requirements**

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**Level GDPR Implementation:**

The data controller responds to a request from a data subject, exercising applicable rights under the EU GDPR, within one (1) month of receipt of the request; however, the period may be extended by another two (2) months when necessary to address the number and complexity of the requests, provided the controller informs the data subject of the delay, along with the reasons for the delay, within the initial one (1) month period. Where the data subject makes the request electronically, the organization provides the information electronically, where possible or unless otherwise requested by the data subject.

Responses are provided free of charge; however, in cases where requests from a data subject are manifestly unfounded or excessive, in particular because of their repetitive character, the controller may either charge a reasonable fee, taking into account the administrative costs of providing the information or communication or taking the action requested; or refuse to act on the request.

If the controller does not take action on the request of the data subject, the controller shall inform the data subject without delay and at the latest within one month of receipt of the request of (1) the reasons for not taking action and (2) on the possibility of lodging a complaint with a supervisory authority and seeking a judicial remedy.

Where personal data relating to a data subject are collected from the data subject, or obtained from other sources, the controller, at the time when personal data are obtained and if the data subject does not already have the it, provides the data subject with the following information:

* the identity and the contact details of the controller and, where applicable, of the controller's representative;
* the contact details of the data protection officer, where applicable;
* the purposes of the processing for which the personal data are intended as well as the legal basis for the processing;
* where the processing is based on point (f) of Article 6(1), the legitimate interests pursued by the controller or by a third party;
* the recipients or categories of recipients of the personal data, if any;
* where applicable, the fact that the controller intends to transfer personal data to a third country or international organization and the existence or absence of an adequacy decision by the Commission, or in the case of transfers referred to in Article 46 or 47, or the second subparagraph of Article 49(1), reference to the appropriate or suitable safeguards and the means by which to obtain a copy of them or where they have been made available.
* the period for which the personal data will be stored, or if that is not possible, the criteria used to determine that period;
* the existence of the right to request from the controller access to and rectification or erasure of personal data or restriction of processing concerning the data subject or to object to processing as well as the right to data portability;
* where the processing is based on authorization (consent) or for the purposes of carrying out the obligations and exercising specific rights of the controller or of the data subject in the field of employment and social security and social protection, the existence of the right to withdraw consent at any time, without affecting the lawfulness of processing based

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on consent before its withdrawal;

* the right to lodge a complaint with a supervisory authority;
* whether the provision of personal data is a statutory or contractual requirement, or a requirement necessary to enter into a contract, as well as whether the data subject is obliged to provide the personal data and of the possible consequences of failure to provide such data; and
* the existence of automated decision-making, including profiling as defined in the EU GDPR, and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

The controller shall provide this information, where personal data have not been obtained from the data subject:

* within a reasonable period after obtaining the personal data, but at the latest within one month, having regard to the specific circumstances in which the personal data are processed;
* if the personal data are to be used for communication with the data subject, at the latest at the time of the first communication to that data subject; or
* if a disclosure to another recipient is envisaged, at the latest when the personal data are first disclosed.

Where the controller intends to further process the personal data for a purpose other than that for which the personal data were collected and if the data subject does not already have the information, the controller shall provide the data subject prior to that additional (further) processing with information on that other purpose and with any other (further) information relevant to that already required at the time of collection.

Where personal data have not been obtained from the data subject, the controller shall provide the data subject with the following information:

* the identity and the contact details of the controller and, if any, of the controller's representative;
* the contact details of the data protection officer, where applicable;
* the purposes of the processing for which the personal data are intended as well as the legal basis for the processing; where applicable, that the controller intends to transfer personal data to a recipient in a third country or international organization and the existence or absence of an adequacy decision by the Commission, or in the case of transfers subject to appropriate safeguards or binding corporate rules, or the implementation of pre-contractual measures or the performance of a contract between the data subject and the controller, reference to the appropriate or suitable safeguards and the means to obtain a copy of them or where they have been made available.

Where the controller intends to further process the personal data for a purpose other than that for which the personal data were collected, the controller shall provide the data subject prior to that additional (further) processing with information on that other purpose and with any other (further) information relevant to that already required for the personal data not obtained for the data subject.

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The data controller ensures the appropriate information is provided to a data subject about the processing of personal data unless:

* the data subject already has the information;
* the provision of such information proves impossible or would involve a disproportionate effort, particularly for processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes, subject to appropriate measures to protect the data subject's rights and freedoms and legitimate interests, including making the information publicly available;
* obtaining or disclosure is expressly laid down by Union or Member State law to which the controller is subject and which provides appropriate measures to protect the data subject's legitimate interests; or
* where the personal data must remain confidential subject to an obligation of professional secrecy regulated by EU or Member State law, including a statutory obligation of secrecy.
* the period for which the personal data will be stored, or if that is not possible, the criteria used to determine that period;
* where the processing is in the legitimate interests of the controller or by a third party, except where overridden by the interests or fundamental rights of the data subject for the protection of personal data, especially where the subject is a child;
* the existence of the right to request from the controller access to and rectification or erasure of personal data or restriction of processing concerning the data subject and to object to processing as well as the right to data portability;
* where processing is based on authorization (consent) or for the purposes of carrying out the obligations and exercising;
* specific rights of the controller or of the data subject in the field of employment and social security and social protection, the existence of the right to withdraw consent at any time, without affecting the lawfulness of processing based on consent before its withdrawal;
* the right to lodge a complaint with a supervisory authority;
* from which source the personal data originate, and if applicable, whether it came from publicly accessible sources; and
* the existence of automated decision-making, including profiling, and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

**Level Group Health Plans Implementation Requirements**

**Level Group Health Plans Implementation:**

The health insurance issuer or HMO provides an individual&#45;other than an inmate&#45;enrolled in a group health plan a notice of privacy practices for that portion of the group health plan through which the individual receives benefits.

At a minimum of once every three (3) years, the health plan must notify individuals then covered by the plan of the availability of the notice and how to obtain the notice.

Notice is provided to the named insured of a policy under which coverage is provided to the named insured and one or more dependents.

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Notice must be given to individuals who are new enrollees at the time of enrollment, and within sixty (60) days of a material revision to the notice.

**Objective Name: 13.02 Individual Choice and Participation**

**Control**

**Objective:** To ensure individuals are provided a reasonable opportunity and capability to make informed decisions about the collection, use, and disclosure of their

individually identifiable health information.

**Control Reference: 13.b Rights to Protection and Confidentiality**

**Control Specification:** Individuals shall have the right to request restriction of uses and disclosures of their protected health information.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to HITRUST De-ID Framework Requirements |
| **Regulatory Factors:** |
|  |

**Level 1 Implementation:**

Under certain conditions, an organization must permit an individual, or their legally-authorized representative, to request that the organization restrict processing (e.g., uses or disclosures) of the individual's PII (e.g., PHI to carry out treatment, payment, or healthcare operations; however, covered entities are not required to agree to a restriction).

A covered entity that agrees to a restriction on use or disclosure must document the restriction in accordance with HIPAA § 164.530(j).

The business associate, and its subcontractors, must agree to the same restrictions and conditions that apply to the covered entity with respect to such information.

The covered entity agrees to- and complies with-, requests by individuals for restrictions on disclosure of PHI to a health plan for a healthcare item or service for which someone other than the health plan pays in full.

The covered entity terminates agreements to restrictions if the individual agrees to or requests the termination in writing, an oral agreement is documented, or the covered entity informs the individual, and termination is effective only for PHI created or received thereafter.

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The covered entity provides for individual complaints concerning the covered entity's privacy policies and procedures or its compliance with such policies and procedures.

The covered entity ensures that individuals who exercise any of their lawful rights, including the filing of a complaint, are not subject to intimidation, threats, discrimination, or any other retaliatory action.

The organization collects PII for specified, explicit and legitimate purposes and does not further process such information in a manner that is incompatible with the initial purpose.

|  |  |  |
| --- | --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) | |
| **Control Standard** | 1 TAC § 390.2(a)(4)(B)(i) | |
| **Mapping:** | 1 | TAC § 390.2(a)(4)(B)(ii) |
|  |
|  | 1 | TAC § 390.2(a)(4)(B)(iii) |
|  | 1 | TAC § 390.2(a)(4)(B)(v) |
|  | 1 | TAC § 390.2(a)(4)(B)(xiv) |
|  | 1 | TAC § 390.2(a)(4)(B)(xv) |
|  | CMSRs 2013v2 IP-4 (HIGH) | |
|  | De-ID Framework v1 Complaints: Policy | |
|  | GDPR Article 18(1) | |
|  | GDPR Article 5(1)(b) | |
|  | HIPAA § 164.502(g) | |
|  | HIPAA § 164.522(a) | |
|  | HIPAA § 164.522(a)(3) | |
|  | HIPAA § 164.530(d) | |
|  | HIPAA § 164.530(g) | |
|  | HIPAA § 164.530(j) | |
|  | MARS-E v2 IP-4 | |
|  | NIST SP 800-53 R4 IP-4 | |
|  |  |  |

**Level 2 Implementation Requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |

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| --- | --- |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Organizational complaint management processes include tracking mechanisms to |
|  | ensure that all complaints received are reviewed and appropriately addressed |
|  | within a reasonable timeframe, which is explicitly defined by the organization. |
|  |  |
| **Level 2** | CMSRs 2013v2 IP-4(1) (HIGH) |
| **Control Standard** | HIPAA § 164.530(d) |
| **Mapping:** | MARS-E v2 IP-4(1) |
|  |
|  | NIST SP 800-53 R4 IP-4(1) |
|  |  |

**Level EHNAC Implementation Requirements**

**Level EHNAC Implementation:**

The organization must have policies and procedures in place to address Individual Rights that meet the implementation specifications listed in the HIPAA Privacy Rule. HIPAA Covered Entities must document having addressed each of the items; Business Associates handling PHI on behalf of covered entities must have addressed all items below which are supported by the completion of the PHI Level information described in control reference 13.f

* Notice of Privacy Practices
* Right of Access to PHI
* Request to Amend PHI
* Request for Alternative Communication of PHI
* Accounting for Disclosures of PHI
* Requests for Restriction of PHI
* Complaints About Privacy Practices
* Free Exercise of Privacy Rights

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

A data subject may obtain a restriction from a data controller where one of the following applies:

* the accuracy of the personal data is contested by the data subject, for a period enabling the controller to verify the accuracy of the personal data;
* the processing is unlawful and the data subject opposes the erasure of the personal data and requests the restriction of their use instead;
* the controller no longer needs the personal data for the purposes of the processing, but they are required by the data subject for the establishment, exercise or defense of legal claims;
* the data subject has objected to processing necessary for the performance of a task carried out in the public interest, in the exercise of official authority vested in the controller, or for the legitimate interests pursued by the controller or by a third party pending the verification whether the legitimate grounds of the controller override those of the data subject.

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* The data controller ensures that, when processing has been restricted, that further processing other than for storage will only be performed with the data subjects consent or for the establishment, exercise or defense of legal claims or for the protection of the rights of another natural or legal person or for reasons of important public interest of the Union or of a Member State, and informs the data subject prior to lifting such a restriction.

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Hospitals, ambulatory surgical centers, nursing and other facilities in which the patient is resident, outpatient facilities such as those for end stage renal disease,

special care facilities such as those for AIDs patients, psychiatric (mental) facilities, and intermediate care facilities such as those for the elderly or persons with an intellectual disability or related conditions, shall ensure their statement of patient rights addresses the right of the patient, within the limits of federal and state law, to personal privacy and confidentiality of personal information and clinical records.

Organizations shall ensure that a minor child, as defined in Texas Civil Practice Code § 129.001, or non-parent of a minor child may consent to medical, dental, psychological, counseling and surgical treatment for the child by a licensed physician or dentist for those circumstances specified in Texas Family Code §§ 32.003 and 32.004. Organizations shall also ensure a parent, foster parent, guardian, or managing conservator of a minor child with special healthcare needs or an adult client with special needs retains the rights and duties specified in Texas Administrative Code § 38.5.

Organizations shall ensure that a parent of a minor child retains the rights and duties specified in Texas Family Code § 151.001, 153.073, 153.074 and 153.132 pursuant to the exceptions provided by §§ 32.003 and 32.004.

**Control Reference: 13.c Authorization Required**

**Control Specification:** Valid authorizations for the use or disclosure of protected health information shall be obtained, and such use or disclosure shall be consistent with such authorization.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Factor Type:** |  | Organizational |
|  |  |  |  |
|  | **Topics:** |  |  |
|  |  |  |  |
|  |  | **Level 1 Implementation Requirements** | |
|  |  |  |  |
|  | **Level 1** |  | Applicable to all Organizations |
|  | **Organizational Factors:** | |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  | **System Factors:** |  |  |
|  |  |  |  |
|  | **Level 1** |  |  |
|  |  |  |  |

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**Regulatory Factors:**

**Level 1 Implementation:**

The organization does not use or disclose PII without a valid authorization (consent), when such authorization is required, for example:

* for the processing of an individuals personal data for a specific purpose;
* where it is necessary in the context of a contract or the intention to enter into a contract;
* necessary for compliance with a legal obligation to which the organization is subject;
* necessary to protect the vital interests of the individual or another natural person,
* necessary for the performance of a task carried out in the public interest or in the exercise of official authority vested in the organization; or;
* necessary for the purposes of the legitimate interests pursued by the organization or by a third party, except where such interests are overridden by the interests or fundamental rights and freedoms of the individual requiring protection of personal data, especially that of a child.

except where such interests are overridden by the interests or fundamental rights and freedoms of the individual requiring protection of personal data, especially that of a child.

In particular, the organization ensures the processing of a childs PII is only performed when the child is at least 16 years old or otherwise proscribed by relevant law or regulation, orif youngeronly when authorization is provided by a parent or other legally responsible person.

The organization also makes reasonable efforts to verify authorization is provided by a parent or other holder of parental responsibility over the child, taking into consideration available technology.

A valid authorization is required for the use or disclosure of psychotherapy notes or for marketing purposes.

When authorization is required, the covered entity ensures the authorizations are valid by including required core elements (reference 45 CFR 164.508(c)).

The organization ensures authorizations are freely given informs individuals they have the right to withdraw the authorization in writing at any time when the request for authorization is made, and ensures individuals can withdraw their authorization as easily as it is given.

If the individuals authorization is given in the context of a written declaration which also concerns other matters, the organization ensures requests for authorization are presented in a manner which is clearly distinguishable from the other matters, in an intelligible and easily accessible form, using clear and plain language.

The covered entity shall not create compound authorizations, except when combining authorizations for the same research study, with an authorization for the creation or maintenance of a research database or repository, or with a consent to participate in research. However, a covered entity may combine

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|  |  | authorizations specifically for the use or disclosure of psychotherapy notes. |
|  |  | When combining any of the above authorizations, the covered entity must ensure |
|  |  | there is no condition on the provision of treatment, payment, enrollment in a |
|  |  | health plan, or eligibility for benefits on the provision of an authorization except as |
|  |  | allowed for research, underwriting and risk determinations, or disclosure of PHI to |
|  |  | a third-party, but in no case for the use of psychotherapy notes. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | CMSRs 2013v2 DM-3 (HIGH) |
|  | **Mapping:** | CMSRs 2013v2 IP-1 (HIGH) |
|  |  |
|  |  | GDPR Article 6(1)(a) |
|  |  | GDPR Article 7(1) |
|  |  | GDPR Article 7(2) |
|  |  | GDPR Article 7(3) |
|  |  | GDPR Article 7(4) |
|  |  | GDPR Article 8(1) |
|  |  | GDPR Article 8(2) |
|  |  | HIPAA § 164.508(a) |
|  |  | HIPAA § 164.508(b) |
|  |  | HIPAA § 164.508(b)(4) |
|  |  | HIPAA § 164.508(c) |
|  |  | MARS-E v2 DM-3 |
|  |  | MARS-E v2 IP-1 |
|  |  | NIST SP 800-53 R4 DM-3 |
|  |  | NIST SP 800-53 R4 IP-1 |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |

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| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization implements mechanisms to support itemized or tiered consent |
|  | for specific uses of data. |
|  |  |
| **Level 2** | CMSRs 2013v2 IP-1(1) (HIGH) |
| **Control Standard** | MARS-E v2 IP-1(1) |
| **Mapping:** | NIST SP 800-53 R4 IP-1(1) |
|  |
|  |  |

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

The organization ensures the processing of PII related to criminal convictions and offences or related security measures without a valid authorization, when such authorization is required, is carried out only under the control of official authority or when the processing is authorized by Union or Member State law providing for appropriate safeguards for the rights and freedoms of data subjects, and that any comprehensive register of criminal convictions is kept only under the control of official authority.

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Persons or organizations required to report immunization information to the state for registry purposes or authorized to receive information from the registry shall

not disclose the individually identifiable information of an individual to any other person without the written or electronic consent of the individual or the individual's legally authorized representative, except as provided by Texas Occupations Code

* 159 or TX Insurance Code § 602.053, and subject to the penalties outlined in THSC § 161.009.

Persons and organizations shall not request information from the immunization registry without providing the written consent of the individual or, if a child, the parent, managing conservator or legal guardian, or except as provided by the TX Occupations Code § 159, or the TX Insurance Code § 28B.04. Persons and organizations shall ensure registry information is not inadvertently released due to a request for discovery, subpoena, or other means of legal compulsion for release to any person or entity, except as provided by THSC 161 § Subchapter A.

Persons and organizations (providers) shall identify and treat government benefits

* federal assistance information (records), such as those relating to 7 CFR § 272 (SNAP), 45 CFR § 205.50 (TANF) and 42 CFR § 431.300 (Medicaid) as confidential and not public records, and such information (records) shall be disclosed only upon written authorization of the recipients, except as noted in the respective program's parent regulation(s) or as otherwise required or authorized by other federal or state law.

Except as authorized by THSC § 241.153, a hospital or an agent or employee of a hospital may not disclose healthcare information about a patient to any person other than the patient or the patient's legally authorized representative without the written authorization of the patient or the patient's legally authorized

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representative.

Except as provided in 40 TAC §19.407(3), a resident patient may approve or refuse the release of personal and clinical records to any individual outside of the facility.

Organizations shall ensure that consent for the release of confidential information related to a minor child must be in writing and signed by the patient, the parent or legal guardian of the patient, an attorney ad litem appointed for the patient, or a personal representative of the patient if the patient is deceased per Texas Occupations Code § 159.005.

**Control Reference: 13.d Opportunity Required**

**Control Specification:** Individuals shall be informed in advance of the use or disclosure of protected health information and shall have he opportunity to agree, prohibit or restrict the use or disclosure when required.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

No later than at the time of the first communication with the individual, the organization informs individuals in advance of an allowed use or disclosure and provides an opportunity to agree to, or prohibit, or restrict the use or disclosure, either orally or in writing, on grounds relating to the subjects particular situation, including processing performed in the public interest, in the exercise of the organizations official authority, or in the legitimate interests of the organization or by a third party, except where such interests are overridden by the interests or fundamental rights and liberties (freedoms) of the individual which require the protection of PII, particularly for a child.

The organization allows an individual to object to the processing of the subjects PII for the purposes of direct marketing at any time, and includes profiling to the extent that its related to direct marketing, and no longer processes the individuals PII for such purposes upon request.

If an individual does not object, the covered entity limits the PHI contained in a directory of individuals at its facility to the individual's name, location, general condition, and religious affiliation and only uses or discloses such information for directory purposes to members of the clergy or, except for religious affiliation, to other persons who ask for the individual by name.

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|  | The covered entity informs individuals of the PHI it may include in a directory, and |
|  | to whom it may disclose such information, and provides the individual an |
|  | opportunity to restrict or prohibit some or all of the disclosures. |
|  | The covered entity provides directory information for allowed uses, only in cases |
|  | where the individual has not objected to such use, or when the opportunity to |
|  | object cannot be practicably provided because of incapacity or an emergency |
|  | treatment circumstance. |
|  | If the covered entity discloses PHI to a family member, or other relative, or a close |
|  | personal friend of the individual, or any other person identified by the individual, or |
|  | to assist and locate such a person, the disclosure is limited to that PHI directly |
|  | relevant to the person's involvement with the individual's care or payment related |
|  | to such care, or otherwise limited to the requirements for limited uses and |
|  | disclosures when the individual is not present, for disaster relieve purposes, or for |
|  | a deceased individual. |
|  | If an individual is present, or has the authority, the covered entity obtains the |
|  | individual's consent or authorization, provides the individual an opportunity to |
|  | object, or reasonably infers from the circumstances that the individual does not |
|  | object to disclosure of PHI. |
|  | When an individual is not present or the opportunity to agree or object to the use |
|  | or disclosure cannot practicably be provided because of incapacity or emergency, |
|  | the covered entity ensures that it only allows uses or provides disclosures of PHI |
|  | to a person that is directly relevant to that person's involvement with the |
|  | individual's health care. |
|  | The covered entity limits disclosure of PHI to a public or private entity authorized |
|  | by law or by its charter, to assist in disaster relief efforts or emergency response. |
|  | If the individual is deceased, a covered entity only discloses to a family member, |
|  | or other persons identified in this control (13.d) who were involved in the |
|  | individual's care or payment for health care prior to the individual's death, PHI of |
|  | the individual that is relevant to such person's involvement, unless doing so is |
|  | inconsistent with any known prior expressed preferences. |
|  | The organization allows individuals to object by automated means using technical |
|  | specifications to the processing of the individuals PII for the use of online services |
|  | requested by the individual. |
|  | The organization allows individuals to object to the processing of their PII for |
|  | scientific, historical or statistical purposes on grounds relating to the individuals |
|  | particular situation, unless the processing is necessary for the performance of a |
|  | task carried out in the public interest. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | CMSRs 2013v2 IP-1 (HIGH) |
| **Mapping:** | GDPR Article 21(1) |
|  |
|  | GDPR Article 21(2) |
|  | GDPR Article 21(3) |
|  | GDPR Article 21(4) |
|  |  |

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GDPR Article 21(5)

GDPR Article 21(6)

HIPAA § 164.510(a)(1)

HIPAA § 164.510(a)(2)

HIPAA § 164.510(a)(3)

HIPAA § 164.510(b)(1)

HIPAA § 164.510(b)(2)

HIPAA § 164.510(b)(3)

HIPAA § 164.510(b)(4)

HIPAA § 164.510(b)(ii)

MARS-E v2 IP-1

NIST SP 800-53 R4 IP-1

Control Reference: **13.e Authorization or Opportunity Not Required**

**Control Specification:** Protected health information may only be used or disclosed without written authorization of the individual or the opportunity for the individual to agree or object when such use or disclosure is authorized by applicable laws or regulations.

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| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to HITRUST De-ID Framework Requirements |
| **Regulatory Factors:** |
|  |

**Level 1 Implementation:**

The covered entity limits the use or disclosure of PHI to the extent that such use or disclosure is authorized by law.

The covered entity complies with the regulatory criteria for permitted uses and disclosures of PHI for public health activities for purposes including preventing or controlling disease; reporting incidents of child abuse or neglect; relating to the jurisdiction of the Food and Drug Administration; intervention or investigation of communicable diseases; work-related illness or injury; or to disclose proof of immunization.

The covered entity discloses PHI about an individual whom the entity reasonably believes to be a victim of abuse, neglect, or domestic violence to government authorities authorized by law to receive such reports only to the extent necessary and required by law, and notifies the individual when required by law.

The covered entity discloses PHI to a health oversight agency only for those

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oversight activities authorized by law.

The covered entity ensures that satisfactory assurances are obtained before providing the appropriate disclosures of PHI pursuant to court orders, subpoenas, or discovery requests for judicial and administrative proceedings

The covered entity only discloses PHI to law enforcement for valid law enforcement purposes when specifically defined criteria are met.

The covered entity discloses PHI to law enforcement for identification and location purposes subject to specifically defined criteria, including whether or not notice or consent is provided.

The covered entity discloses PHI related to victims of a crime to law enforcement, subject to specifically defined criteria.

The covered entity discloses PHI related to an individual who has died to law enforcement if the covered entity has a suspicion that such death may have resulted from criminal conduct.

The covered entity discloses PHI related to a crime, on premises or in an emergency, to law enforcement if the covered entity believes in good faith that criminal conduct occurred on the premises.

The covered entity limits disclosure of PHI to a coroner or medical examiner--or a covered entity acting in the capacity of a coroner or medical examiner--to that required to identify a deceased person, determine a cause of death, or other duties as authorized by law.

The covered entity limits disclosure of PHI to funeral directors, consistent with applicable law, to the minimum necessary to carry out their duties with respect to the decedent.

The covered entity limits uses or disclosures of PHI to legitimate organ procurement organizations for the purpose of facilitating organ, eye or tissue donation and transplantation.

The covered entity uses or discloses PHI for research only if approved by a valid IRB or privacy board and receives appropriate representations from the research regarding the appropriate uses and disclosures necessary for research purposes.

Documentation for a use or disclosure permitted for research based on approval of an alteration or waiver shall contain a signed, dated statement from the IRB or privacy board that confirms the necessary conditions for use or disclosure.

A covered entity may, consistent with applicable law and standards of ethical conduct, use or disclose PHI to the extent allowed if the covered entity, in good faith, believes the use or disclosure is reasonable or necessary for safety or law enforcement.

In cases where use (processing) or disclosure is not performed based on the individuals consent or applicable law, the organization ensures such use or disclosure is compatible with the purpose when the data was initially collected and

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takes into account, among other things:

* any link between the purposes for which the PII has been collected and the purposes of the intended further processing;
* the context in which the PII has been collected, in particular regarding the relationship between the individual and the organization;
* the nature of the PII, in particular whether special categories of personal data are processed, or whether personal data related to criminal convictions and offences are processed;
* the possible consequences of the intended further processing for individuals; and
* the existence of appropriate safeguards, which may include encryption or data deidentification (pseudonymisation).

The covered entity uses or discloses the PHI of Armed Forces personnel for activities deemed necessary by appropriate military command authorities only if the authority has published notice in the Federal Register, with appropriate military command authorities, and the purposes for which the PHI may be used or disclosed are identified.

The covered entity discloses PHI to authorized federal officials for the conduct of lawful intelligence, counter-intelligence, and other national security activities.

The covered entity discloses PHI to authorized Federal officials for the provision of protective services to the President or other authorized officials or for the conduct of authorized investigations.

A covered entity that is a component of the Department of State uses PHI only to make determinations regarding the medical suitability of an individual to officials in the Department of State who need access to such information for required security clearance, to determine worldwide availability or availability for mandatory service abroad, or for a family to accompany a Foreign Service member abroad.

The covered entity uses or discloses PHI of an inmate to a law enforcement official having lawful custody of the inmate if the correctional institution or such law enforcement official represents such PHI is necessary.

The covered entity only discloses PHI as authorized and to the extent necessary to comply with laws relating to workers' compensation or similar programs.

The organization ensures that individuals are not subject to a decision based solely on automated processing, including profiling, which produces legal effects concerning or similarly significantly impacts the individual, UNLESS the decision is:

* necessary for entering into, or performance of, a contract between the data subject and a data controller;
* authorized by Union or Member State law to which the controller is subject, and which also lays down suitable measures to safeguard the data subject's rights and freedoms and legitimate interests; or
* based on the data subject's explicit consent.

In such cases, the organization implements suitable measures to safeguard the individuals rights and liberties (freedoms) and legitimate interestsbut no less than

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|  | the ability to obtain human intervention on the part of the organizationto express |
|  | the individuals concerns and contest the decision, and such decisions are not |
|  | based on special categories of personal data (e.g., race, ethnicity, sexual |
|  | orientation) unless the data subject has given explicit consent, or is necessary for |
|  | reasons of substantial public interest and the appropriate safeguards are in place. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(I) |
| **Mapping:** | CMSRs 2013v2 UL-1 (HIGH) |
|  |
|  | CMSRs 2013v2 UL-2 (HIGH) |
|  | De-ID Framework v1 Data Stewardship: General |
|  | De-ID Framework v1 Secondary Use: General |
|  | GDPR Article 22(1) |
|  | GDPR Article 22(2) |
|  | GDPR Article 22(3) |
|  | GDPR Article 22(4) |
|  | GDPR Article 6(4) |
|  | HIPAA § 164.510(a) |
|  | HIPAA § 164.510(b) |
|  | HIPAA § 164.512(a) |
|  | HIPAA § 164.512(b) |
|  | HIPAA § 164.512(c) |
|  | HIPAA § 164.512(d) |
|  | HIPAA § 164.512(e) |
|  | HIPAA § 164.512(f)(1) |
|  | HIPAA § 164.512(f)(2) |
|  | HIPAA § 164.512(f)(3) |
|  | HIPAA § 164.512(f)(4) |
|  | HIPAA § 164.512(f)(5) |
|  | HIPAA § 164.512(f)(6) |
|  | HIPAA § 164.512(g) |
|  | HIPAA § 164.512(h) |
|  | HIPAA § 164.512(i)(1) |
|  | HIPAA § 164.512(i)(2) |
|  | HIPAA § 164.512(j) |
|  | HIPAA § 164.512(k)(1) |
|  | HIPAA § 164.512(k)(2) |
|  | HIPAA § 164.512(k)(3) |
|  | HIPAA § 164.512(k)(4) |
|  | HIPAA § 164.512(k)(5) |
|  | HIPAA § 164.512(l) |
|  | MARS-E v2 UL-1 |
|  | MARS-E v2 UL-2 |
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NIST SP 800-53 R4 UL-1

NIST SP 800-53 R4 UL-2

**Level Federal Implementation Requirements**

**Level Federal Implementation:**

A health plan that is a government program providing public benefits may disclose PHI relating to eligibility for, or enrollment in, the health plan to another agency administering a government program providing public benefits if the sharing is required or expressly authorized by statute or regulation.

A covered entity that is a government agency administering a government program providing public benefits may disclose PHI relating to the program to another covered entity that is a government agency administering a government program providing public benefits if they serve similar populations and the disclosure is necessary to coordinate the functions of such programs.

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Cancer data may be provided to the Texas Cancer Registry without patient authorization or consent in accordance with 25 TAC § 91.3(e).

**Control Reference: 13.f Access to Individual Information**

**Control Specification:** Individuals have a right of access to inspect and obtain a copy of limited protected health information about themselves contained in a Designated Record Set for as long as that information is maintained.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

With limited exceptions, the organization provides individuals the right of access to review and obtain a copy of their PII (e.g., PHI in a designated record set for as long as the record set is maintained), and provides such access in a timely manner (e.g., 30 days with no more than one (1) thirty (30) day extension for a designated record set) for no more than a reasonable, cost-based fee, or, if the organization does not maintain or process the PII but knows where it's located or processed, the organization informs the individual where to direct the request. Where the individual makes the request, and unless otherwise requested by the individual, the organization provides the information in a structured,commonly

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|  |  |  | used and machine readable (electronic) format. However, the organization also |
|  |  |  | ensures the right to obtain a copy of this information does not adversely impact |
|  |  |  | the rights and liberties of others. |
|  |  |  | The covered entity provides the individual access to the PHI in the designated |
|  |  |  | record set in a written or electronic form and format requested by the individual or |
|  |  |  | otherwise agreed to by the covered entity and the individual. Summaries of the |
|  |  |  | PHI requested are only provided in lieu of the designated record set if the |
|  |  |  | individual agrees in advance to the summary and any fees imposed for providing |
|  |  |  | such summary. |
|  |  |  | The covered entity only provides access to another person designated by the |
|  |  |  | individual if the individual requests such access in writing, signed by the |
|  |  |  | individual, and the request clearly identifies the designated person and where the |
|  |  |  | copy of the PHI should be sent. |
|  |  |  | The covered entity may deny an individual access to their PHI without providing |
|  |  |  | an opportunity to review only for psychotherapy notes, information compiled in |
|  |  |  | anticipation of legal proceedings or subject to, or exempt from, the Clinical |
|  |  |  | Laboratory Improvements Amendments of 1988; the covered entity is a |
|  |  |  | correctional facility; the individual is involved in research in progress; the |
|  |  |  | information is contained in records subject to the Privacy Act; or the information |
|  |  |  | was obtained from an entity other than a healthcare provider on the promise of |
|  |  |  | confidentiality. |
|  |  |  | Should a licensed healthcare professional determine that access would endanger |
|  |  |  | the life or physical safety of, or otherwise cause substantial harm to, the individual |
|  |  |  | or another person, access to the individual's PHI shall be denied. |
|  |  |  | The covered entity provides timely (thirty (30) days plus no more than a thirty (30) |
|  |  |  | day extension), written denial to an individual's request for access in plain |
|  |  |  | language that addresses the basis for denial, a statement of the individual's rights |
|  |  |  | for review of the denial (e.g., review of the denial by a licensed healthcare |
|  |  |  | professional), and a description of procedures for complaints to the entity and the |
|  |  |  | Secretary of Health and Human Services. |
|  |  |  |  |
|  | **Level 1** |  | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** |  | GDPR Article 15(4) |
|  | **Mapping:** |  | HIPAA § 164.524(a)(1) |
|  |  |  |
|  |  |  | HIPAA § 164.524(a)(2) |
|  |  |  | HIPAA § 164.524(a)(3) |
|  |  |  | HIPAA § 164.524(a)(4) |
|  |  |  | HIPAA § 164.524(b) |
|  |  |  | HIPAA § 164.524(c)(4) |
|  |  |  | HIPAA § 164.524(d)(2) |
|  |  |  | HIPAA § 164.524(d)(4) |
|  |  |  | HIPAA § 164.530(j) |
|  |  |  | N/A |
|  |  |  |  |
|  |  | **Level 2 Implementation Requirements** | |
|  |  |  |  |

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|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to EHNAC Accreditation |
| **Regulatory Factors:** | Subject to FISMA Compliance |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The organization: |
|  | • Publishes rules and regulations governing how individuals may request |
|  | access to records maintained in a Privacy Act system of records; |
|  | • Publishes access procedures in System of Records Notices (SORNs); |
|  | and |
|  | • Adheres to Privacy Act requirements and OMB policies and guidance for |
|  | the proper processing of Privacy Act requests. |
|  |  |
| **Level 2** | CMSRs 2013v2 IP-2 (HIGH) |
| **Control Standard** | HIPAA § 164.524(b) |
| **Mapping:** | MARS-E v2 IP-2 |
|  |
|  | NIST SP 800-53 R4 IP-2 |
|  |  |

**Level EHNAC Implementation Requirements**

**Level EHNAC Implementation:**

The organization must determine the level at which PHI is handled, and then respond to all privacy criteria based on that determination.

Candidate must identify the level at which PHI is handled based on the following:

Level 1: PHI is NEVER directly accessed by any workforce member.

Level 2: PHI is sometimes accessible to workforce members.

Level 3: PHI is created when workforce members communicate directly with members or patients. Creation of PHI means a designated record check is created.

Candidate must ensure that the following Privacy areas are addressed based on the Level determination above.

Level 1:

* None

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Level 2:

* Review the HIPAA Privacy Rule Uses and Disclosures regulations and document which requirements apply to your business model and the way in which ePHI is handled. Provide evidence of this review along with policy and procedure documents in the respective sections within this self-assessment.
* Review the HIPAA Privacy Rule Individual Rights regulations and document which requirements apply to your business model and the way in which ePHI is handled. Provide evidence of this review along with policy and procedure documents in the respective sections within this self-assessment.
* Provide a general statement as to the determination if it is deemed that NO Uses or Disclosures or Individual Rights are deemed applicable.

Level 3:

* Review the HIPAA Privacy Rule Uses and Disclosures regulations and document which requirements apply to your business model and the way in which ePHI is handled. Provide evidence of this review along with policy and procedure documents in the respective sections within this self-assessment.
* Review the Privacy Rule Individual Rights regulations and document which requirements apply to your business model and the way in which PHI is handled. Provide evidence of this review along with policy and procedure documents in the respective sections within this self-assessment.
* Provide a general statement as to the determination if it is deemed that CERTAIN Uses or Disclosures or Individual Rights are deemed applicable.

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

The data controller does not refuse to act on the request of a data subject exercising applicable rights under the EU GDPR unless the controller demonstrates it cannot identify the subject.

Where the data controller is not required to maintain, acquire or process additional personal data for the sole purpose of complying with the EU GDPR, the data controller informs data subjects that it cannot comply with Articles 15 through 20 of the GDPR; however, the data controller accepts additional information provided by the data subject, which enables the individuals identification, in order for the data subject to exercise applicable rights under the EU GDPR. Identification should include the digital identification of the data subject, e.g., through an authentication mechanism that was used by the data subject to log-in to the online service(s) offered by the data controller.

Upon request by the data subject, the data confirms whether personal data concerning him or her are being processed, and where that is the case, access to the personal data and the following information:

* the purposes of the processing;

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* the categories of personal data concerned;
* the recipients or categories of recipient to whom the personal data have been or will be disclosed, and particularly recipients in third countries or international organizations;
* where possible, the envisaged period for which the personal data will be stored, or, if not possible, the criteria used to determine that period;
* the existence of the right to request from the controller rectification or erasure of personal data or restriction of processing of personal data concerning the data subject or to object to such processing;
* the right to lodge a complaint with a supervisory authority;
* where the personal data are not collected from the data subject, any available information as to their source; and
* the existence of automated decision-making, including profiling, and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

Where personal data are transferred to a third country or to an international organization and upon request by the data subject, the controller informs the subject of the appropriate safeguards relating to the transfer.

The data controller transmits personal data to another controller, at the request of the data subject, without hindrance from the controller to which the personal data was provided, where:

* the processing is based on the consent of the data subject or authorized representative, or is necessary for pre-contract or contract performance in which the data subject is a party; and
* the processing is carried out by automated means.

Such transmissions are made directly from one controller to another, where technically feasible, and without prejudice to the data subjects right to be forgotten (erasure of personal data) or the rights and liberties (freedoms) of other individuals.

**Control Reference: 13.g Accounting of Disclosures**

**Control Specification:** Individuals have a right to receive an Accounting of Disclosures for certain protected health information.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

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|  |  |  |
| --- | --- | --- |
|  | **Level 1 Implementation:** | The covered entity provides individuals the right to receive an accounting of |
|  |  |
|  |  | disclosures of certain PHI made by the covered entity in the six (6) years prior to |
|  |  | the date on which the accounting is requested, except for specific disclosures |
|  |  | addressed in CSF controls 13.c (authorizations provided), 13.d (facility directory |
|  |  | and relevant persons), 13.e (correction institutions and national security or |
|  |  | intelligence purposes), 13.i (required disclosures), 13.j (permitted disclosures), |
|  |  | and 13.l (limited data sets). |
|  |  | The covered entity's accounting of disclosures includes, for the six (6) years prior |
|  |  | to the request, the date, a name and address of the entity provided the PHI, a |
|  |  | description of the PHI disclosed, and the purpose for which the information was |
|  |  | disclosed; and, if for research, the name of the research activity, the period of |
|  |  | time the PHI was disclosed, the contact information of the research sponsor |
|  |  | (name, address and phone number), and a statement that the PHI may or may |
|  |  | not have been disclosed for a particular research activity. When requested by the |
|  |  | individual, the covered entity provides assistance to the individual in contacting |
|  |  | the research sponsor and researcher for an accounting. |
|  |  | The covered entity acts upon an individual's request for an accounting no later |
|  |  | than sixty (60) days after receipt of the request (with a one time thirty (30) day |
|  |  | extension with proper notice to the requestor), free of charge for the first request |
|  |  | within any twelve (12) month period and, if informed in advance, for a reasonable |
|  |  | cost-based fee for subsequent requests within the period. |
|  |  | The covered entity must temporarily suspend an individual's right to receive an |
|  |  | accounting of disclosures to a health oversight agency or law enforcement official |
|  |  | for the time specified by such agency or official, if such agency or official provides |
|  |  | the covered entity with a written statement that such an accounting to the |
|  |  | individual would be reasonably likely to impede the agency's activities, and |
|  |  | specifies the time for which such a suspension is required. |
|  |  |  |
|  | **Level 1** | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** | GDPR Article 12(5) |
|  | **Mapping:** | HIPAA § 164.528(a) |
|  |  |
|  |  | HIPAA § 164.528(a)(2)(i) |
|  |  | HIPAA § 164.528(b) |
|  |  | HIPAA § 164.528(c)(1) |
|  |  | HIPAA § 164.530(j)(2) |
|  |  |  |
|  | **Level 2 Implementation Requirements** | |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |

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|  |  |
| --- | --- |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | The Senior Agency Official for Privacy (SAOP)/Chief Privacy Officer (CPO) |
|  | periodically consults with managers of organization systems of record to ensure |
|  | that the required accountings of disclosures of records are being properly |
|  | maintained and provided to persons named in those records consistent with the |
|  | dictates of the Privacy Act. |
|  |  |
| **Level 2** | CMSRs 2013v2 AR-8 (HIGH) |
| **Control Standard** | HIPAA § 164.528(b) |
| **Mapping:** | HIPAA § 164.528(d) |
|  |
|  | MARS-E v2 AR-8 |
|  | NIST SP 800-53 R4 AR-8 |
|  |  |

**Objective Name: 13.03 Correction**

**Control**

**Objective:** To ensure individuals are provided with a timely means to dispute the accuracy of their individually identifiable health information, and to have erroneous information

corrected or to have a dispute documented, if thei

**Control Reference: 13.h Correction of Records**

**Control Specification:** Individuals have a right to have certain protected health information amended for as long as the information is maintained.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

The organization ensures individuals have the right to amend PII (e.g., PHI or a record about the individual in a designated record set) for as long as the PII is

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|  |  |
| --- | --- |
|  | maintained. |
|  | The covered entity denies an individual's request for amendment only if it |
|  | determines the PHI or record was not created by the covered entity (unless the |
|  | originator no longer exists), is not part of the designated record set, is not |
|  | available for inspection per CSF control 13.f, or is otherwise accurate and |
|  | complete. |
|  | The covered entity acts on an individual's request for amendment within 60 days |
|  | of the request, with no more than one (1) thirty (30) day extension. |
|  | If the covered entity requires a written request with a rationale for the amendment, |
|  | the covered entity makes these requirements known in advance. |
|  | If the requested amendment is accepted in whole or in part, the organization |
|  | makes the amendment, informs the individual the amendment was made in a |
|  | timely manner, and makes reasonable efforts to notify relevant persons with |
|  | whom the amendment must be shared in a reasonable timeframe. |
|  | If a requested amendment is denied in whole or in part, the covered entity must |
|  | provide the individual with a written denial; permit the individual to submit a |
|  | statement of disagreement; prepare a written rebuttal if the individual submits a |
|  | statement of disagreement; maintain denials, disagreements and rebuttals as |
|  | organizational records; and provide relevant information regarding any |
|  | disagreements in future disclosures of the individual's PHI. |
|  | The covered entity corrects an individual's PHI if informed by another covered |
|  | entity of an amendment. |
|  | The organization ensures PII is accurate, kept up to date where necessary, and |
|  | erases or corrects inaccurate PII without unreasonable delay unless otherwise |
|  | permitted by relevant laws or regulations. |
|  |  |
| **Level 1** | CMSRs 2013v2 DI-1 (HIGH) |
| **Control Standard** | CMSRs 2013v2 IP-3 (HIGH) |
| **Mapping:** | GDPR Article 16 |
|  |
|  | GDPR Article 19 |
|  | GDPR Article 5(1)(d) |
|  | GDPR Article 5(2) |
|  | HIPAA § 164.526(a)(1) |
|  | HIPAA § 164.526(a)(2) |
|  | HIPAA § 164.526(b)(1) |
|  | HIPAA § 164.526(c) |
|  | HIPAA § 164.526(d) |
|  | HIPAA § 164.526(e) |
|  | HIPAA § 164.526(f) |
|  | MARS-E v2 DI-1 |
|  | MARS-E v2 IP-3 |
|  | NIST SP 800-53 R4 DI-1 |
|  |  |

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|  |  |  |
| --- | --- | --- |
|  |  | NIST SP 800-53 R4 IP-3 |
|  | **Level 2** | **Implementation Requirements** |
|  |  |  |
|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to FISMA Compliance |
|  | **Regulatory Factors:** |
|  |  |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization requests that the individual or individual's authorized |
|  |  | representative: |
|  |  | • validate PII during the collection process, and |
|  |  | • periodically revalidate that PII collected is still accurate at an organization- |
|  |  | defined frequency but no less than annually. |
|  |  | The organization establishes a Data Integrity Board when appropriate to oversee |
|  |  | organizational Computer Matching Agreements and to ensure that those |
|  |  | agreements comply with the computer matching provisions of the Privacy Act. |
|  |  | The organization publishes Computer Matching Agreements on its public |
|  |  | Website. |
|  |  |  |
|  | **Level 2** | CMSRs 2013v2 DI-1(1) (HIGH) |
|  | **Control Standard** | CMSRs 2013v2 DI-1(2) (HIGH) |
|  | **Mapping:** | CMSRs 2013v2 DI-2 (HIGH) |
|  |  |
|  |  | CMSRs 2013v2 DI-2(1) (HIGH) |
|  |  | NIST SP 800-53 R4 DI-1(1) |
|  |  | NIST SP 800-53 R4 DI-1(2) |
|  |  | NIST SP 800-53 R4 DI-2 |
|  |  | NIST SP 800-53 R4 DI-2(1) |
|  |  |  |
|  | **Level GDPR Implementation Requirements** | |
|  |  |  |
|  | **Level GDPR** | With limited exception, the data controller erases personal data upon request of |
|  | **Implementation:** |

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the data subject and without undue delay where one of the following applies:

* the personal data are no longer necessary in relation to the purposes for which they were collected or otherwise processed;
* the data subject withdraws consent on which the processing is based on authorization (consent) or for the purposes of carrying out the obligations and exercising specific rights of the controller or of the data subject in the field of employment and social security and social protection, and where there is no other legal ground for the processing;
* the data subject objects to the processing based on the subjects particular situation and there are no overriding legitimate grounds for the processing, or the data subject objects to the processing for the purposes of direct marketing;
* the personal data have been unlawfully processed;
* the personal data must be erased for compliance with a legal obligation in Union or Member State law to which the controller is subject;
* the personal data have been collected in relation to the offer of online services provided at the users request.

Where the controller has made the personal data public and is obliged to erase the personal data, the controller, taking into account of available technology and the cost of implementation, takes reasonable steps, including technical measures, to inform controllers processing the personal data that the data subject has requested the erasure by such controllers of any links to, or copy or replication of, that personal data.

The data controller ensures erasure is not performed at the request of a data subject only in limited circumstances, which include to the extent processing is necessary:

* for exercising the right of freedom of expression and information;
* for compliance with a legal obligation which requires processing by EU or Member State law to which the controller is subject or for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller;
* for reasons of public health;
* for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes in so far as the right is likely to render impossible or seriously impair the achievement of the objectives of that processing; or
* for the establishment, exercise or defense of legal claims.

When any rectification or erasure of personal data or restriction of processing occurs, the data controller must inform the data subject about the recipients to whom the personal data have been disclosed if the data subject requests it.

**Level Group Health Plans Implementation Requirements**

**Level Group Health Plans Implementation:**

The group health plan limits exceptions to the general requirements for amendments to PHI to health benefits provided other than solely through an insurance contract with a health insurance issuer or HMO and PHI that it does not create or receive, except for summary health information or information on

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whether the individual is participating in the group health plan, or is enrolled in or has disenrolled from, a health insurance issuer or HMO offered by the plan. Amended plan documents are subject to the organization's retention policy.

**Objective Name: 13.04 Collection, Use and Disclosure**

**Control**

**Objective:** To ensure individually identifiable health information is collected, used, and/or disclosed only to the extent necessary to accomplish a specified purpose, or

purposes, and never to discriminate inappropriately

**Control Reference: 13.i Required Uses and Disclosures**

**Control Specification:** Protected health information shall be used or disclosed when required by applicable laws and regulations.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to HITRUST De-ID Framework Requirements |
| **Regulatory Factors:** |
|  |

**Level 1 Implementation:**

In certain instances, a covered entity may use or disclose PHI without the written authorization of the individual or the opportunity for the individual to agree or object.

A covered entity may use or disclose PHI to the extent that such use or disclosure is required by law and the use or disclosure complies with, and is limited to, the relevant requirements of such law.

The covered entity shall disclose PHI to an individual when requested or required under federal or state law, or when required by the Secretary of Health and Human Services to investigate or determine the covered entity's compliance with the HIPAA Privacy Rule.

The business associate shall disclose PHI when required by the Secretary of Health and Human Services to investigate or determine the business associate's compliance with the HIPAA Privacy Rule and to the covered entity, individual, or individual's designee, as necessary to satisfy a covered entity's obligations as described in CSF control 13.f with respect to an individual's request for an electronic copy of PHI.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |

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**Control Standard Mapping:**

1 TAC § 390.2(a)(4)(A)(iii)

1 TAC § 390.2(a)(4)(A)(xii)

1 TAC § 390.2(a)(4)(A)(xiv)

1 TAC § 390.2(a)(4)(B)(x)

CMSRs 2013v2 UL-2 (HIGH)

HIPAA § 164.502(a)(2)

HIPAA § 164.502(a)(4)

NIST SP 800-53 R4 UL-2

**Level 2 Implementation Requirements**

|  |  |
| --- | --- |
| **Level 2** | Bed: Between 200 and 750 Beds |
| **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  | HIE Transactions: Between 1 and 6 Million Transactions |
|  | Hospital Admissions: Between 7.5k and 20k Patients |
|  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  | Physician Count: Between 11 and 25 Physicians |
|  | Physician Encounters: Between 60k to 180k Encounters |
|  | Record Count Annual: Between 180k and 725k Records |
|  | Record Total: Between 10 and 60 Million Records |
|  |  |
| **Level 2** |  |
| **System Factors:** |  |
|  |  |
| **Level 2** | Subject to FISMA Compliance |
| **Regulatory Factors:** |
|  |
|  |  |
| **Level 2 Implementation:** | Level 1 plus: |
|  |
|  | Organizations ensure that they use PII only for legally authorized purposes and in |
|  | a manner compatible with uses identified in the Privacy Act and/or in public |
|  | notices, to include monitoring and auditing organizational use of PII. |
|  | With guidance from the Senior Agency Official for Privacy (SAOP)/Chief Privacy |
|  | Officer (CPO) and, where appropriate, legal counsel, organizations formally |
|  | evaluate any proposed new uses of PII to assess whether they fall within the |
|  | scope of the organizational authorities. |
|  |  |
| **Level 2** | CMSRs 2013v2 UL-1 (HIGH) |
| **Control Standard** | CMSRs 2013v2 UL-2 (HIGH) |
| **Mapping:** | MARS-E v2 UL-1 |
|  |
|  | MARS-E v2 UL-2 |
|  | NIST SP 800-53 R4 UL-1 |
|  | NIST SP 800-53 R4 UL-2 |
|  |  |

**Level De-ID Data Implementation Requirements**

**Environment**

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**Level De-ID Data Environment Implementation:**

Audits of the use and disclosure of covered information are regularly conducted and any identified issues are remediated.

The use or disclosure of covered information is monitored, and such monitoring is supported by automated alerting and response plans.

**Level EHNAC Implementation Requirements**

**Level EHNAC Implementation:**

The organization must have policies and procedures in place to address required Uses and Disclosures of PHI that meet the implementation specifications listed in the HIPAA Privacy Rule. HIPAA Covered Entities must document having addressed each of the items below; Business Associates handling PHI on behalf of covered entities must have addressed all items below which are supported by the completion of the PHI Level information described in control reference 13.f

Specific policies and procedures should be included for the following:

* Right of Access to PHI
* Accounting of Disclosures for PHI
* Disclosure of PHI to Personal Representative

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Healthcare entities receiving medical records from the Social Security Administration shall ensure that no part of the medical record is withheld from the

individual or, in the case where the medical record pertains to a minor child, from the parent or guardian pursuant to 42 U.S.C. §1306, 20 CFR Part 401.55(c)(2), as referenced by 20 CFR Part 401.100(d).

Laboratories shall ensure the confidentiality of patient information during all stages of the testing process that are under the laboratory's control and release test results only to authorized persons and, if applicable, the individual responsible for using the test results and the laboratory that initially requested the test. Laboratories shall have an adequate manual or electronic system(s) in place to ensure test results and other patient-specific information is accurately and reliably transmitted from the point of data entry (whether interfaced or entered manually) to the final report's destination, in a timely manner.

The entity that performed the genetic test shall disclose the test results to the individual or a physician designated by the individual upon written request.

Persons and organizations (providers) shall treat family planning information as defined by 25 TAC § 56.11 as confidential and not public records, and disclose this information only upon written authorization of the clients (patients), except for reports of child abuse as required by Texas Family Code § 261 or as required or authorized by other federal or state law.

**Control Reference: 13.j Permitted Uses and Disclosures**

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**Control Specification:** Protected health information may be used or disclosed when permitted by applicable laws and regulations.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

Organizations shall ensure patient information with special handling requirements, e.g., HIV, mental health and substance abuse-related records (see 07.e), is not disclosed except to individuals, organizations or agencies expressly allowed by applicable federal and state law.

The covered entity limits permitted uses or disclosures of PHI to the individual; for treatment, payment or healthcare operations; incident to a use or disclosure otherwise permitted or required; or otherwise pursuant to a valid authorization or agreement.

A business associate only uses or discloses PHI as permitted or required by its business associate contract or other arrangement and does not use or disclose PHI in a manner that would violate requirements for the protection of such information, if done by the covered entity, except for the purposes specified in CSF control 13.h if such uses or disclosures are permitted by its contract or other arrangement.

The covered entity complies with restrictions on use and disclosure of PHI for which it has agreed.

A covered entity or business associate may disclose PHI to a business associate and may allow a business associate to create, receive, maintain, or transmit PHI on its behalf, if the covered entity or business associate obtains satisfactory, written assurance (e.g., a written contract, agreement or arrangement that satisfies the requirements of this control) that the business associate will appropriately safeguard the information.

The covered entity expressly permits disclosures of PHI by whistleblowers and specifies the appropriate conditions under which whistleblowers may disclose PHI.

The covered entity permits certain disclosures of PHI by workforce members who are victims of a crime to law enforcement and specifies the conditions under which they may disclose PHI.

The covered entity or business associate understands when it has not obtained satisfactory assurances or met the standards for business associate contracts and takes appropriate action if it knew of a pattern or activity or practice of the

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|  |  |
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|  | business associate that constituted a material breach or violation of its |
|  | obligations. |
|  | The covered entity uses and discloses PHI for treatment, payment or healthcare |
|  | operations appropriately and not in a manner inconsistent with uses or |
|  | disclosures that require authorization or are otherwise prohibited. |
|  | If consent is obtained from an individual to carry out treatment, payment or |
|  | healthcare operations, the covered entity does not use or disclose PHI in other |
|  | circumstances that require authorization or when another condition must be met |
|  | for such use or disclosure. |
|  | The covered entity only discloses PHI for specific, allowed treatment, payment or |
|  | healthcare operations, including quality assessments, competency or qualification |
|  | reviews, healthcare fraud and abuse detection or compliance, and patient safety |
|  | activities. |
|  | The covered entity only uses or discloses specific, limited types of PHI under |
|  | specific, defined conditions to a business associate or an institutionally-related |
|  | foundation for the purpose of raising funds for its own benefit. |
|  | The covered entity restricts uses and/or disclosures of PHI used for underwriting |
|  | purposes for any other purpose except as may be required by law. |
|  | The covered entity formally verifies (e.g., with appropriate documentation) the |
|  | identity and authority of persons (e.g., public officials) requesting PHI. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(A)(ii) |
| **Mapping:** | HIPAA § 164.502(j)(1) |
|  |
|  | HIPAA § 164.502(j)(2) |
|  | HIPAA § 164.504(e) |
|  | HIPAA § 164.506(a) |
|  | HIPAA § 164.506(b) |
|  | HIPAA § 164.514(f) |
|  | HIPAA § 164.514(g) |
|  | HIPAA § 164.514(h) |
|  | PMI DSP Framework PR.AC-1 |
|  |  |

**Level EHNAC Implementation Requirements**

**Level EHNAC Implementation:**

The organization must have policies and procedures in place to address all Uses and Disclosures of PHI that meet the implementation specifications listed in the HIPAA Privacy Rule. HIPAA Covered Entities must document having addressed each of the items below; Business Associates handling PHI on behalf of covered entities must have addressed all below which are supported by the completion of the PHI Level information described in control reference 13.f

Specific policies and procedures should be included for the following:

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* Minimum Necessary (required)
* Use & Disclosure Policies (required to the degree the candidate handles PHI in support of such as determined in control reference 13.f):
  + Extension of Privacy Protection to Deceased Individuals
  + Authorization to Use or Disclose PHI
  + De-Identified Information
  + Limited Data Set
  + Use and Disclosure of PHI for Purposes of Research
  + Use or Disclosure of Psychotherapy Notes
  + Use and Disclosure of PHI for Marketing Purposes
  + Use and Disclosure of PHI for Fundraising
  + Use and Disclosure of Genetic Information for Underwriting Purposes
  + Uses and Disclosures for Facility Records
* Disclosure of PHI Policies (required to the degree the candidate handles PHI in support of such as determined in control reference 13.f):
  + Verification of the Identity and Authority of a Person Requesting Disclosure of PHI
  + Providing Medical Information to Family, Friends, Or Other Directly Involved in the Patients Care]
  + Disclosures of PHI Required by Law
  + Disclosures of PHI for Public Health Purposes
  + Disclosures of PHI to Report Child Abuse, or Other Abuse, Neglect, or Domestic Violence
  + Reporting PHI to Employers under OSHA and Other Similar Laws
  + Disclosures of PHI to Regulators
  + Subpoenas, Court Orders, Discovery Requests, and other Legal Processes and the Disclosure of PHI
  + Disclosures of PHI for Law Enforcement Purposes
  + Disclosures of PHI in Disaster Situations
  + Disclosures of PHI without Authorization to Avert a Serious Threat to Health or Safety
  + Disclosures of PHI for Certain Government Functions
  + Disclosure of PHI Pertaining to Inmates
  + Disclosure of PHI to Workers Compensation Programs

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Organizations shall ensure reports, records, and other documents containing sensitive personal information lawfully obtained by state agencies are not subject

to subpoena and may not otherwise be released or made public, except as authorized by law.

Genetic information is considered sensitive personal information (also PHI as defined by HIPAA) and is confidential and privileged regardless of the source of the information. Persons and organizations, including licensing authorities, shall ensure that genetic information about an individual may not be disclosed, or compelled to be disclosed by subpoena or otherwise, unless the disclosure is to the individual, or otherwise authorized by the individual, as provided by TX Insurance Code § 546.104, a physician or other individual designated or authorized by the individual as provided by TX Labor Code § 21.403 or other

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applicable federal or state law.

Persons and organizations shall ensure that records of the identity, personal history or background information of a survivor of sexual assault, or information concerning the victimization of a survivor, created by or provided to an advocate or maintained by a sexual assault program, is confidential and may not be disclosed, except as provided by Tex. Gov. Code § 420 Subchapter D.

Persons and organizations shall ensure that the section of a birth certificate entitled "For Medical and Health Use Only" is not considered part of the legal birth certificate and is not released or made public on subpoena or otherwise, except that release may be made for statistical purposes only so that no person, patient, or facility is identified, or to medical personnel of a healthcare entity, as that term is defined in Subtitle B, Title 3, TX Occupations Code, or appropriate state or federal agencies for statistical research, except as provided in § 192.002.

Persons and organizations shall ensure that reports, records, and information relating to cases or suspected cases of diseases or health conditions&#45;regardless of the source&#45;are confidential, are not made public, and are not released or made public on subpoena or otherwise except as provided by THSC § 81.046 and other applicable federal or state law.

Persons and organizations shall ensure that individual morbidity reports are confidential, are not made public, and are not released or made public except as allowed under federal or state law.

Persons and organizations shall ensure the confidentiality of reports of abuse, neglect, or exploitation of minor, elderly and disabled persons, including those with an intellectual disability or related condition (ICF/IID), or information used or developed in an investigation or in providing services as a result of an investigation, and that disclosures of such information are limited to those defined in TX Human Resources Code §§ 48.101 and 48.154 and TX Family Code §§ 261.201 thru 261.203, and THSC § 252.126.

Persons and organizations shall treat occupational health case reports as defined by 25 TAC § 99.1 as confidential and not public records, and shall be accessed only by authorized persons, except when such information is de-identified for statistical and epidemiological studies, which may be made public.

Persons and organizations shall treat records associated with a state investigation of alleged abuse or neglect of a chemical dependency counselor or treatment center as confidential per THSC § 464.010(e) and not public records, and shall only be disclosed as authorized by THSC §§ 464.010(e) and 464.011.

Organizations shall ensure the disclosures of client Medicaid information comply with TX Human Resources Code §§ 12.003 and 21.012 and TX Government Code § 552.10 in addition to the federal requirements outlined in 42 USC, §1396a(a)(7) and 42 CFR §§431.301 thru 431.306.

**Control Reference: 13.k Prohibited or Restricted Uses and Disclosures**

|  |  |  |
| --- | --- | --- |
|  | **Control Specification:** | Protected health information shall not be used or disclosed when prohibited or |

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|  |  |
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|  | otherwise restricted by applicable laws and regulations. |
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| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
| **Level 1 Implementation Requirements** | |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** |  |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** |  |
| **Regulatory Factors:** |  |
|  |  |
| **Level 1 Implementation:** | Unless the entity is an issuer of long-term care policies, the health plan may not |
|  |
|  | use or disclose PHI that is genetic information for underwriting purposes. The |
|  | covered entity or business associate shall not sell PHI. |
|  | Unless otherwise allowed by relevant law, regulation, or contractual arrangement, |
|  | the organization does not process PII revealing racial or ethnic origin, political |
|  | opinions, religious or philosophical beliefs, or trade-union membership, nor |
|  | process genetic or biometric data for the purpose of uniquely identifying an |
|  | individual, data concerning health or data concerning an individuals sex life or |
|  | sexual orientation. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | 1 TAC § 390.2(a)(4)(B)(iii) |
| **Mapping:** | 1 TAC § 390.2(a)(4)(B)(xiv) |
|  |
|  | GDPR Article 9(1) |
|  | HIPAA § 164.502(a)(5) |
|  |  |

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

The organization does not process PII revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade-union membership, nor process genetic or biometric data for the purpose of uniquely identifying an individual, data concerning health or data concerning an individuals sex life or sexual orientation UNLESS:

* the data subject has given explicit consent to the processing of those personal data for one or more specified purposes, except where Union or Member State law provide that the prohibition referred to in paragraph 1 may not be lifted by the data subject;
* processing is necessary for the purposes of carrying out the obligations and exercising specific rights of the controller or of the data subject in the field of employment and social security and social protection law in so far as it is authorized by Union or Member State law or a collective agreement pursuant to Member State law providing for appropriate safeguards for the fundamental rights and the interests of the data subject;

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* processing is necessary to protect the vital interests of the data subject or of another natural person where the data subject is physically or legally incapable of giving consent;
* processing is carried out in the course of its legitimate activities with appropriate safeguards by a foundation, association or any other not-for-profit body with a political, philosophical, religious or trade-union aim and on condition that the processing relates solely to the members or to former members of the body or to persons who have regular contact with it in connection with its purposes and that the personal data are not disclosed outside that body without the consent of the data subjects; (e) processing relates to personal data which are manifestly made public by the data subject;
* processing is necessary for the establishment, exercise or defense of legal claims or whenever courts are acting in their judicial capacity;
* processing is necessary for reasons of substantial public interest, on the basis of Union or Member State law which shall be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject;
* processing is necessary for the purposes of preventive or occupational medicine, for the assessment of the working capacity of the employee, medical diagnosis, the provision of health or social care or treatment or the management of health or social care systems and services on the basis of Union or Member State law or pursuant to contract with a health professional and subject to the conditions and safeguards referred to in paragraph 3;
* processing is necessary for reasons of public interest in the area of public health, such as protecting against serious cross-border threats to health or ensuring high standards of quality and safety of health care and of medicinal products or medical devices, on the basis of Union or Member State law which provides for suitable and specific measures to safeguard the rights and freedoms of the data subject, in particular professional secrecy; or
* processing is necessary for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes in accordance with Article 89(1) based on Union or Member State law which shall be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject.

**Level Texas CoveredEntities Implementation Requirements Level Texas Covered**

**Entities Implementation:** Records relating to the deaths of residents with an intellectual disability or related condition are also confidential and not subject to release or disclosure under the

provisions of TX Government Code § 552.

End stage renal facilities shall ensure information concerning quality of care provided to or compiled by the Department of State Health Services or medical review board and a recommendation of the medical review board are confidential. The information or recommendation may not be made available for public inspection, is not subject to disclosure under TX Government Code, Chapter 552,

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and is not subject to discovery, subpoena, or other compulsory legal process.

**Control Reference: 13.l Minimum Necessary Use**

**Control Specification:** The use or disclosure of protected health information shall be limited to the minimum necessary to accomplish the intended purpose of the use, disclosure, or request, including de-identification and limited data sets.

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| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |
|  |  |
| **Level 1** | Subject to HITRUST De-ID Framework Requirements |
| **Regulatory Factors:** |
|  |

**Level 1 Implementation:**

The organization ensures its use of PII is adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed.

The covered entity or business associate makes reasonable efforts to limit requests for PHI to, or from, another covered entity or business associate to the minimum necessary to accomplish the intended purpose of the use, disclosure or request. Exceptions include, but are not limited to, treatment, requests by the individual, or uses or disclosures pursuant to a valid authorization, required by law, or required for compliance with other requirements, such as disclosures made to the Secretary of Health and Human Services.

A covered entity must make reasonable efforts to limit the access of persons or classes of persons to those with a legitimate need to access PHI. The covered entity limits the PHI disclosed to the minimum amount reasonably necessary to achieve the purpose of the disclosure.

The covered entity only creates and uses information that is not individually identifiable (i.e., de-identified) when a code or other means of record identification designed to enable coded, or otherwise de-identified information to be re-identified, is not disclosed. If the de-identified information is subsequently re-identified, the covered entity only uses or discloses such re-identified information as permitted or required for PHI.

The covered entity or business associate understands that health information is not identifiable (i.e., de-identified) only when there is no reasonable basis to believe that the information can be used to identify an individual and meets federal requirements for de-identified data.

When de-identifying PHI, the covered entity removes all eighteen (18) data elements required by the HIPAA Administrative Simplification's Privacy Rule and

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|  |  |  | has no knowledge the resulting data set could be re-identified, or an appropriate |
|  |  |  | person applies generally accepting scientific principles and methods for rendering |
|  |  |  | information not individually identifiable and determines the risk of re-identification |
|  |  |  | is appropriately small. |
|  |  |  | The covered entity may enter into a data use agreement with a recipient before |
|  |  |  | allowing the use or disclosure of a limited data set and ensures the data provided |
|  |  |  | meets the requirements for a limited data set. |
|  |  |  | A covered entity may use or disclose a limited data set only for the purposes of |
|  |  |  | research, public health, or healthcare operations. |
|  |  |  | PII is kept in a form which permits identification of individuals for no longer than is |
|  |  |  | necessary for the purposes for which the data are processed, unless such storage |
|  |  |  | is for a use otherwise permitted by applicable law or regulation. |
|  |  |  | The organization ensures that its processing of PII for archiving purposes in the |
|  |  |  | public interest, scientific or historical research purposes or statistical purposes, |
|  |  |  | are subject to appropriate safeguards, as required by relevant law or regulation, |
|  |  |  | for the rights and liberties (freedoms) of the individual. Those safeguards shall |
|  |  |  | include technical and organizational measures that ensure respect for the |
|  |  |  | principle of data minimization. Those measures may include data de-identification |
|  |  |  | (pseudonymization) provided that those purposes can be fulfilled in that manner. |
|  |  |  | Where those purposes can be fulfilled by further processing that does not permit |
|  |  |  | or no longer permits the identification of data subjects, those purposes shall be |
|  |  |  | fulfilled in that manner. |
|  |  |  |  |
|  | **Level 1** |  | 1 TAC § 390.2(a)(1) |
|  | **Control Standard** |  | CMSRs 2013v2 DM-3 (HIGH) |
|  | **Mapping:** |  | De-ID Framework v1 Aggregated Data: Disclosure Policy |
|  |  |  |
|  |  |  | GDPR Article 25(2) |
|  |  |  | GDPR Article 5(1)(c) |
|  |  |  | GDPR Article 5(1)(e) |
|  |  |  | GDPR Article 5(2) |
|  |  |  | GDPR Article 89(1) |
|  |  |  | HIPAA § 164.502(d) |
|  |  |  | HIPAA § 164.514(a) |
|  |  |  | HIPAA § 164.514(b) |
|  |  |  | HIPAA § 164.514(c) |
|  |  |  | HIPAA § 164.514(d)(3) |
|  |  |  | HIPAA § 164.514(d)(4) |
|  |  |  | HIPAA § 164.514(d)(5) |
|  |  |  | HIPAA § 164.514(e) |
|  |  |  | MARS-E v2 DM-3 |
|  |  |  | NIST SP 800-53 R4 DM-3 |
|  |  |  | PMI DSP Framework PR.DS-1 |
|  |  |  |  |
|  |  | **Level 2 Implementation Requirements** | |
|  |  |  |  |

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|  | **Level 2** | Bed: Between 200 and 750 Beds |
|  | **Organizational Factors:** | Health Plan/Insurance/PBM: Between 1 million to 7.5 Million Lives |
|  |  | HIE Transactions: Between 1 and 6 Million Transactions |
|  |  | Hospital Admissions: Between 7.5k and 20k Patients |
|  |  | IT Service Provider: Between 15 and 60 Terabytes(TB) |
|  |  | Non-IT Service Provider: Between 25 and 100 Megabytes(MB) |
|  |  | Pharmacy Companies: Between 10 million to 60 million Prescriptions |
|  |  | Physician Count: Between 11 and 25 Physicians |
|  |  | Physician Encounters: Between 60k to 180k Encounters |
|  |  | Record Count Annual: Between 180k and 725k Records |
|  |  | Record Total: Between 10 and 60 Million Records |
|  |  |  |
|  | **Level 2** |  |
|  | **System Factors:** |  |
|  |  |  |
|  | **Level 2** | Subject to 23 NYCRR 500 |
|  | **Regulatory Factors:** | Subject to EHNAC Accreditation |
|  |  | Subject to FISMA Compliance |
|  |  |  |
|  | **Level 2 Implementation:** | Level 1 plus: |
|  |  |
|  |  | The organization, where feasible and within the limits of technology, locates and |
|  |  | removes/redacts specified PII and/or uses anonymization and de-identification |
|  |  | techniques to permit use of the retained information while reducing its sensitivity |
|  |  | and reducing the risk resulting from disclosure. |
|  |  | The organization, where feasible, uses techniques (e.g., as described in NIST SP |
|  |  | 800-122) to minimize the risk to privacy of using PII for research, testing, or |
|  |  | training. |
|  |  |  |
|  | **Level 2** | CMSRs 2013v2 DM-1 (HIGH) |
|  | **Control Standard** | CMSRs 2013v2 DM-3(1) (HIGH) |
|  | **Mapping:** | De-ID Framework v1 Aggregated Data: Disclosure Policy |
|  |  |
|  |  | GDPR Article 25(1) |
|  |  | GDPR Article 32(1)(a) |
|  |  | HIPAA § 164.514(a) |
|  |  | HIPAA § 164.514(b) |
|  |  | MARS-E v2 DM-1 |
|  |  | MARS-E v2 DM-3(1) |
|  |  | NIST SP 800-53 R4 DM-1(1) |
|  |  | NIST SP 800-53 R4 DM-3(1) |
|  |  |  |
|  | **Level De-ID Data** | **Implementation Requirements** |
|  | **Environment** |
|  |  |  |
|  | **Level De-ID Data** | The covered entity or business associate only publishes or discloses data that is |
|  | **Environment** |
|  | **Implementation:** | de-identified for the intended context (environment), unless otherwise permitted |
|  |  | by law. |
|  |  |  |

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**Control Reference: 13.m Confidential Communications**

**Control Specification:** Individuals shall be afforded the right to request and the covered entity must accommodate reasonable requests to receive communications of protected health information by alternative means or at alternative locations.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

Persons and organizations shall ensure that communications between a patient and a healthcare professional are made available upon request. A covered entity may require the individual to make a request for a confidential communication in writing.

Communication between a healthcare provider and a patient, and records of the identity, evaluation, or treatment of a patient, that are made or created in the course of providing healthcare services to the patient, shall be considered confidential and privileged and may not be disclosed, except as provided by federal or state law.

A patient's pharmacy records are similarly confidential, and a pharmacist may only release a confidential record to the patient, or other individual, or entity permitted by federal or state law.

Communication between certified emergency medical services personnel or a physician providing medical supervision and a patient, and records relating to the identity, evaluation, or treatment of a patient that are made or created in the course of providing emergency medical services to the patient, shall be considered confidential and privileged and may not be disclosed except as provided by federal or state law.

The covered entity must permit, and must accomodate reasonable requests by, individuals who represent they are in danger to request to receive communications of PHI from the covered entity by alternative means or at alternative locations.

As appropriate, the covered entity only conditions requests for confidential communications on how payment, if any, will be handled and the specification of an alternative address or other method of contact; however, in no case may the organization require an explanation as to the basis of the individual's request.

|  |  |
| --- | --- |
| **Level 1** | 1 TAC § 390.2(a)(1) |

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**Control Standard Mapping:**

1 TAC § 390.2(a)(4)(A)(vii)

1 TAC § 390.2(a)(4)(B)(ix)

1 TAC § 390.2(a)(4)(B)(vi)

1 TAC § 390.2(a)(4)(B)(vii)

1 TAC § 390.2(a)(4)(B)(viii)

1 TAC § 390.2(a)(4)(B)(xi)

1 TAC § 390.2(a)(4)(B)(xii)

HIPAA § 164.502(a)

HIPAA § 164.522(b)

HIPAA § 164.522(b)(1)

HIPAA § 164.522(b)(2)(i)

**Level Texas Covered**

**Entities Implementation Requirements**

**Level Texas Covered**

**Entities Implementation:** Persons and organizations shall ensure that communications between a patient and a professional for the diagnosis, evaluation, or treatment of any mental or

emotional condition or disorder, including alcoholism or drug addiction, and records of the identity, diagnosis, evaluation, or treatment of a patient that are created or maintained by a professional, are only disclosed in select instances as provided by THSC §§ 611.004 or 611.0045, or 42 CFR Part 2.

**Control Reference: 13.n Organizational Requirements**

**Control Specification:** An individuals privacy and security shall be assured through appropriate contracts, monitoring and other means and methods to report and mitigate non-adherence and breaches.

|  |  |
| --- | --- |
| **Factor Type:** | Organizational |
|  |  |
| **Topics:** |  |
|  |  |
|  | **Level 1 Implementation Requirements** |
|  |  |
| **Level 1** | Applicable to all Organizations |
| **Organizational Factors:** | |
|  |  |
| **Level 1** |  |
| **System Factors:** |  |

**Level 1**

**Regulatory Factors:**

**Level 1 Implementation:**

The covered entity ensures each of its business associates have a valid agreement that addresses the proper management/oversight of the business associate and specifies applicable requirements (e.g., around use, further disclosure, and the implementation of reasonable and appropriate safeguards).

If the covered entity has multiple functions that would make the entity any combination of a healthcare provider, a health plan, and a healthcare clearinghouse, it ensures the use and disclosure of PHI is only for the purpose

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|  |  |
| --- | --- |
|  | related to the appropriate function being performed. |
|  | In an arrangement between business associate and a subcontractor who handles |
|  | PHI for the business associate, the contractual requirements apply in the same |
|  | manner as such requirements apply to contracts or other arrangements between |
|  | a covered entity and business associate. |
|  |  |
| **Level 1** | 1 TAC § 390.2(a)(1) |
| **Control Standard** | CMSRs 2013v2 AR-3 (HIGH) |
| **Mapping:** | CMSRs 2013v2 UL-2 (HIGH) |
|  |
|  | HIPAA § 164.504(e)(1) |
|  | HIPAA § 164.504(f) |
|  | HIPAA § 164.504(g)(2) |
|  | MARS-E v2 AR-3 |
|  | MARS-E v2 UL-2 |
|  | NIST SP 800-53 R4 AR-3 |
|  | NIST SP 800-53 R4 UL-2 |
|  |  |

**Level GDPR Implementation Requirements**

**Level GDPR Implementation:**

Unless it employs less than 250 persons and performs only occasional personal data processing that does not include special categories or data relating to criminal convictions and offences, the controller and, where applicable, the controller's representative, maintains a written record of processing activities under its responsibility, which may be in electronic form, and contains all of the following information:

* the name and contact details of the controller and, where applicable, the joint controller, the controller's representative and the data protection officer;
* the purposes of the processing;
* a description of the categories of data subjects and of the categories of personal data;
* the categories of recipients to whom the personal data have been or will be disclosed including recipients in third countries or international organizations;
* where applicable, transfers of personal data to a third country or an international organization, including the identification of that third country or international organization and, in the case of a transfer necessary for the performance of a contract between the data subject and the controller or the implementation of pre-contractual measures taken at the data subject's request, the documentation of appropriate safeguards;
* where possible, the envisaged time limits for erasure of the different categories of data;
* where possible, a general description of the technical and organizational security measures intended to ensure a level of processing security appropriate to the risk.

Unless it employs less than 250 persons and performs only occasional personal data processing that does not include special categories or data relating to

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criminal convictions and offences, the processor and, where applicable, the processor's representative maintains a written record of all categories of processing activities carried out on behalf of a controller, which may be in electronic form, containing:

* the name and contact details of the processor or processors and of each controller on behalf of which the processor is acting, and, where applicable, of the controller's or the processor's representative, and the data protection officer;
* the categories of processing carried out on behalf of each controller;
* where applicable, transfers of personal data to a third country or an international organization, including the identification of that third country or international organization and, in the case of transfers necessary for the performance of a contract between the data subject and the controller or the implementation of pre-contractual measures taken at the data subject's request, the documentation of appropriate safeguards;
* where possible, a general description of the technical and organizational security measures intended to ensure a level of processing security appropriate to the risk.

The controller or the processor and, where applicable, the controller's or the processor's representative, ensures the record of processing activities is made available to the supervisory authority on request.

**Level Group Health Plans Implementation Requirements**

**Level Group Health Plans Implementation:**

The group health plan documents appropriately restrict the use and disclosure of PHI by the plan sponsor.

The group health plan, or a health insurance issuer or HMO with respect to the group plan, limits disclosures to the plan sponsor of information based on whether an individual is participating in the plan,or is enrolled in or disenrolled from a health insurance issuer or HMO offered by the plan.

The group health plan documents are amended as required to incorporate provisions to establish permitted and required uses and disclosures, and disclose PHI to the plan sponsor only upon receipt of certification that the documents have been amended for specific, limited reasons, e.g., that no use or further disclosure other than that permitted or required will be made.

Plan documents ensure adequate separation between the group health plan and the plan sponsor by describing employees or classes of employees to whom PHI may be disclosed, restricting access and use by such persons or classes of persons to administrative functions the plan sponsor performs, and providing an effective mechanism for resolving issues of noncompliance with the plan document provisions.

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