

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance							Corp Gov Relevance	Cloud Service Delivery Model Applicability			Supplier Relationship		Scope Applicability											
				Phys	Network	Compute	Storage	App	Data	SaaS		PaaS	IaaS	Shared	Multi-Tenant	Provider	Consumer	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedRAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP
Compliance - Audit Planning	CO-01	Audit plans, activities and operational action items focusing on data duplication, access, and data boundary limitations shall be designed to minimize the risk of business process disruption. Audit activities must be planned and agreed upon in advance by stakeholders.	個人情報を取扱う場合、金融情報を取扱う場合、委託先の管理監督業務は発注者側にある。	X	X	X	X	X	X	X	X	X	X	X	X	X	ME 2.1 ME 2.2 PO 9.5 PO 9.6	45 CFR 164.312(b)	Clause 4.2.3 e) Clause 4.2.3b) Clause 5.1 g) Clause 6 A.15.3.1	CA-2 CA-7 PL-6	NIST SP800-53 R3 CA-2 NIST SP800-53 R3 CA-2 (1) NIST SP800-53 R3 CA-7 NIST SP800-53 R3 CA-7 (2) NIST SP800-53 R3 PL-6	2.1.2.b	L.1, L.2, L.7, L.9, L.11			10.2.5	Commandment #1 Commandment #2 Commandment #3	
Compliance - Independent Audits	CO-02	Independent reviews and assessments shall be performed at least annually, or at planned intervals, to ensure the organization is compliant with policies, procedures, standards and applicable regulatory requirements (i.e., internal/external audits, certifications, vulnerability and penetration testing)	組織が、方針や手順、規格、規制の請求事項(内部/外部監査、認証、脆弱性及びペネトレーションテストなど)に準拠していることを検証するために、独立したレビューや評価が少なくとも年間一回、もしくはあらかじめ定められた間隔で実施されるものとする。	X	X	X	X	X	X	X	X	X	X	X	X	DS5.5 ME2.5 ME 3.1 PO 9.6	45 CFR 164.308 (a)(6) 45 CFR 164.308(a)(1)(ii)(D)	Clause 4.2.3a) Clause 5.1 g) Clause 5.2.1 d) Clause 6 A.6.1.8	CA-1 CA-2 CA-6 RA-5	NIST SP800-53 R3 CA-1 NIST SP800-53 R3 CA-2 NIST SP800-53 R3 CA-2 (1) NIST SP800-53 R3 CA-6 NIST SP800-53 R3 RA-5 NIST SP800-53 R3 RA-5 (1) NIST SP800-53 R3 RA-5 (2) NIST SP800-53 R3 RA-5 (3) NIST SP800-53 R3 RA-5 (6)	11.2 11.3 6.6 12.1.2.b	L.2, L.4, L.7, L.9, L.11			12.5 12.7 4.2.1 8.2.7 10.2.3 10.2.5	Commandment #1 Commandment #2 Commandment #3	CIP-003-3 - R1.3 - R4.3 CIP-004-3 R4 - R4.2 CIP-005-3a - R1 - R1.1 - R1.2	
Compliance - Third Party Audits	CO-03	Third party service providers shall demonstrate compliance with information security and confidentiality, service definitions and delivery level agreements included in third party contracts. Third party reports, records and services shall undergo audit and review, at planned intervals, to govern and maintain compliance with the service delivery agreements.	サービスの提供は、契約に含まれる情報セキュリティポリシーや機密性、サービス定義、SLA(delivery level agreement)を遵守しなければならない。SLAの遵守状況を管理・維持するために、第三者の報告、記録、レビューは、定期的に監査及びレビューを受けなければならない。	X	X	X	X	X	X	X	X	X	X	X	X	ME 2.6 DS 2.1 DS 2.4	45 CFR 164.308(b)(1) 45 CFR 164.308 (b)(4)	A.6.2.3 A.10.2.1 A.10.2.2 A.10.6.2	CA-3 SA-9 SA-12 SC-7	NIST SP800-53 R3 CA-3 NIST SP800-53 R3 SA-9 NIST SP800-53 R3 SA-9 (1) NIST SP800-53 R3 SA-12 NIST SP800-53 R3 SC-7 NIST SP800-53 R3 SC-7 (1) NIST SP800-53 R3 SC-7 (2) NIST SP800-53 R3 SC-7 (3) NIST SP800-53 R3 SC-7 (4) NIST SP800-53 R3 SC-7 (5) NIST SP800-53 R3 SC-7 (7) NIST SP800-53 R3 SC-7 (8) NIST SP800-53 R3 SC-7 (12) NIST SP800-53 R3 SC-7 (13) NIST SP800-53 R3 SC-7 (18)	2.4 12.8.2 12.8.3 12.8.4 Appendix A	C.2.4.C.2.6, G.4.1, G.4.2, L.2, L.4, L.7, L.11	C.2	12.11 4.2.3 7.2.4 10.2.3 10.2.4	Commandment #1 Commandment #2 Commandment #3			
Compliance - Contact / Authority Maintenance	CO-04	Liaisons and points of contact with local authorities shall be maintained in accordance with business and customer requirements and compliance with legislative, regulatory, and contractual requirements. Data, objects, applications, infrastructure and hardware may be assigned legislative domain and jurisdiction to facilitate proper compliance points of contact.	関係当局との連絡窓口は、事業や顧客の要求事項、及び法律、規制、契約上の要求事項に沿って、維持しなければならない。適切かつ適切な連絡先の設置を確保するために、データ、オブジェクト、アプリケーション、インフラ、ハードウェアが立法分野及び司法に割り当てられてもよい。	X	X	X	X	X	X	X	X	X	X	X	X	ME 3.1	A.6.1.6 A.6.1.7	AT-5 IR-6 SI-5	NIST SP800-53 R3 AT-5 NIST SP800-53 R3 IR-6 NIST SP800-53 R3 IR-6 (1) NIST SP800-53 R3 SI-5	11.1.e 12.5.3 12.9	L1			12.7 10.1.1 10.2.4	Commandment #1 Commandment #2 Commandment #3	CIP-001-1a R3 - R4		
Compliance - Information System Regulatory Mapping	CO-05	Statutory, regulatory, and contractual requirements shall be defined for all elements of the information system. The organization's approach to meet known requirements, and adapt to new mandates shall be explicitly defined, documented, and kept up to date for each information system element in the organization. Information system elements may include data, objects, applications, infrastructure and hardware. Each element may be assigned a legislative domain and jurisdiction to facilitate proper compliance mapping.	情報システムの全構成要素について、法令、規制及び契約上の要求事項が定義されなければならない。既存の規制を満たし、また新しい規制に適合するための組織の取り組みは、情報システムの各構成要素について明示的に定義され、文書化され、更新されなければならない。情報システムの構成要素には、データ、オブジェクト、アプリケーション、インフラ、ハードウェアを含むものも、各構成要素は、法的要求事項の遵守を促進するために、立法分野及び司法に割り当てられてもよい。	X	X	X	X	X	X	X	X	X	X	X	X	ME 3.1	ISO/IEC 27001-2005 Clause 4.2.1 b) 2) Clause 4.2.1 c) 1) Clause 4.2.1 g) Clause 4.2.3 d) 6) Clause 4.3.3 Clause 5.2.1 a - f) Clause 7.3 c) 4)	AC-1 AT-1 AU-1 CA-1 CM-1 CP-1 IA-1 IA-7 IR-1 WA-1 MP-1 PE-1 PL-1 PM-1 PS-1 RA-1 RA-2 SA-1 SA-6 SC-1 SC-13 SI-1	NIST SP800-53 R3 AC-1 NIST SP800-53 R3 AT-1 NIST SP800-53 R3 AU-1 NIST SP800-53 R3 CA-1 NIST SP800-53 R3 CM-1 NIST SP800-53 R3 CP-1 NIST SP800-53 R3 IA-1 NIST SP800-53 R3 IA-7 NIST SP800-53 R3 IR-1 NIST SP800-53 R3 MA-1 NIST SP800-53 R3 MP-1 NIST SP800-53 R3 PE-1 NIST SP800-53 R3 PL-1 NIST SP800-53 R3 PM-1 NIST SP800-53 R3 PS-1 NIST SP800-53 R3 RA-1 NIST SP800-53 R3 RA-2 NIST SP800-53 R3 SA-1 NIST SP800-53 R3 SA-6 NIST SP800-53 R3 SC-1 NIST SP800-53 R3 SC-13 NIST SP800-53 R3 SI-1	3.1.1 3.1	L.1, L.2, L.4, L.7, L.9		12.2 1.2.4 12.6 12.1.1 3.2.4 5.2.1	Commandment #1 Commandment #2 Commandment #3				
Compliance - Intellectual Property	CO-06	Policy, process and procedure shall be established and implemented to safeguard intellectual property and the use of proprietary software within the legislative jurisdiction and contractual constraints governing the organization.	知的財産権や権利関係のあるソフトウェア製品の利用を保護するために、組織に適用される法律及び契約に沿って、方針、手続き、手順が確立され、施行されなければならない。						X	X	X	X	X	X	X		Clause 4.2.1 A.6.1.5 A.7.1.3 A.10.8.2 A.12.4.3 A.15.1.2	SA-6 SA-7 PM-5	NIST SP800-53 R3 SA-6 NIST SP800-53 R3 SA-7 NIST SP800-53 R3 PM-5		L.4				Commandment #1 Commandment #2 Commandment #3			
Data Governance - Ownership / Stewardship	DG-01	All data shall be designated with stewardship with assigned responsibilities defined, documented and communicated.	全情報について、管理責任者が指名されなければならない。管理責任者の責任は、定義され、文書化され、通知されなければならない。			X	X	X	X	X	X	X	X	X	X	DS5.1 PO 2.3	45 CFR 164.308 (a)(2)	A.6.1.3 A.7.1.2 A.15.1.4	CA-2 PM-5 PS-2 RA-2 SA-2	NIST SP800-53 R3 CA-2 NIST SP800-53 R3 CA-2 (1) NIST SP800-53 R3 PM-5 NIST SP800-53 R3 PS-2 NIST SP800-53 R3 RA-2 NIST SP800-53 R3 SA-2		C.2.5.1, C.2.5.2, D.1.3, L.7			6.2.1	Commandment #6 Commandment #10	CIP-007-3 - R1.1 - R1.2	
Data Governance - Classification	DG-02	Data, and objects containing data, shall be assigned a classification based on data type, jurisdiction of origin, jurisdiction domiciled, content, legal constraints, contractual constraints, value, sensitivity, criticality to the organization and third party obligation for retention and prevention of unauthorized disclosure or misuse.	データや、データを含むオブジェクトは、認可されていない開示や誤用を防ぐために、データタイプ、出身地や居住地の司法権、法的、契約的制約、組織や第三者にとっての価値や機密性や重要性に基づき、分類されなければならない。			X	X	X	X	X	X	X	X	X	X	PO 2.3 DS 11.6	A.7.2.1	RA-2 AC-4	NIST SP800-53 R3 RA-2 NIST SP800-53 R3 AC-4		9.7.1 9.10 12.3	D.1.3, D.2.2			12.3 1.2.6 4.1.2 8.1.0 8.2.5 8.2.6	Commandment #9	CIP-003-3 - R4 - R5	
Data Governance - Handling / Labeling / Security Policy	DG-03	Policies and procedures shall be established for labeling, handling and security of data and objects which contain data. Mechanisms for label inheritance shall be implemented for objects that acts as aggregate containers for data.	データや、データを含むオブジェクトのラベリング、取扱、セキュリティのための方針、手順が確立されなければならない。組織が使用するオブジェクトは、データの集合体としてのオブジェクトに対して適用されなければならない。			X	X	X	X	X	X	X	X	X	X	PO 2.3 DS 11.6	A.7.2.2 A.10.7.1 A.10.7.3 A.10.8.1	AC-16 MP-1 MP-3 FE-16 SI-12 SC-9	NIST SP800-53 R3 AC-16 NIST SP800-53 R3 MP-1 NIST SP800-53 R3 MP-3 NIST SP800-53 R3 FE-16 NIST SP800-53 R3 SI-12 NIST SP800-53 R3 SC-9 NIST SP800-53 R3 SC-9 (1)	9.5 9.6 9.7.1 9.7.2 9.10	D.2.2	G.13	1.1.2 5.1.0 7.1.2 8.1.0 8.2.5 8.2.6	Commandment #8 Commandment #9 Commandment #10	CIP-003-3 - R4 - R4.1			

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance							Corp Gov Relevance	Cloud Service Delivery Model Applicability			Scope Applicability												
				Phys	Network	Compute	Storage	App	Data	SaaS		PaaS	IaaS	SaaS	PaaS	IaaS	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedRAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP
Data Governance - Retention Policy	DG-04	(v1.0) Policies and procedures for data retention and storage shall be established and backup or redundancy mechanisms implemented to ensure compliance with regulatory, statutory, contractual or business requirements. Testing the recovery of disk or tape backups must be implemented at planned intervals. (v1.1) Policies and procedures for data retention and storage shall be established and backup or redundancy mechanisms implemented to ensure compliance with regulatory, statutory, contractual or business requirements. Testing the recovery of backups must be implemented at planned intervals.	Control revision v1.1 rationale: Removed the specific reference to tape and disk backup as there are other media types. 他のメディアタイプがあるので、テープとディスクバックアップへの特定の参照を削除しました。			X	X	X	X	X	X			DS 4.1 DS 4.2 DS 4.5 DS 4.9 DS 11.6	45 CFR 164.308(a)(7)(ii)(A) 45 CFR 164.310 (d)(2)(iv) 45 CFR 164.308(a)(7)(ii)(D) 45 CFR 164.310(b)(2)(ii) (New)	Clause 4.3.3 A.10.5.1 A.10.7.3	CP-2 CP-6 CP-7 CP-8 CP-9 SI-12 AU-11	NIST SP800-53 R3 CP-2 (1) NIST SP800-53 R3 CP-2 (2) NIST SP800-53 R3 CP-6 NIST SP800-53 R3 CP-8 (1) NIST SP800-53 R3 CP-6 (3) NIST SP800-53 R3 CP-7 NIST SP800-53 R3 CP-7 (1) NIST SP800-53 R3 CP-7 (2) NIST SP800-53 R3 CP-7 (3) NIST SP800-53 R3 CP-7 (5) NIST SP800-53 R3 CP-8 NIST SP800-53 R3 CP-8 (1) NIST SP800-53 R3 CP-8 (2) NIST SP800-53 R3 CP-9 NIST SP800-53 R3 CP-9 (1) NIST SP800-53 R3 CP-9 (3) NIST SP800-53 R3 SI-12 NIST SP800-53 R3 AU-11	3.1 3.1.1 3.2 9.9.1 9.5 9.6 10.7	D.2.2.9				5.1.0 5.1.1 5.2.2 8.2.6	Commandment #11	CIP-003-3 - R4.1	
Data Governance - Secure Disposal	DG-05	Policies and procedures shall be established and mechanisms implemented for the secure disposal and complete removal of data from all storage media, ensuring data is not recoverable by any computer forensic means.	あらゆるストレージメディアからデータを完全に消去し、安全に廃棄するための方針、手順、メカニズムが確立され、いかなるフォレンジック手法によってもデータが回復できないようにしなければならない。			X	X	X	X	X	X	X		DS 11.4	45 CFR 164.310 (d)(2)(i) 45 CFR 164.310 (d)(2)(ii)	A.9.2.6 A.10.7.2	MP-6 PE-1	NIST SP800-53 R3 MP-6 NIST SP800-53 R3 MP-6 (4) NIST SP800-53 R3 PE-1	3.1.1 9.10 9.10.1 9.10.2 3.1	D.2.2.10, D.2.2.11, D.2.2.14,			5.1.0 5.2.3	Commandment #11	CIP-007-3 - R7 - R7.1 - R7.2 R7.3		
Data Governance - Non-Production Data	DG-06	Production data shall not be replicated or used in non-production environments.	本番データは、本番環境以外で使われたり、複製されたりしてはならない。				X	X	X		X	X	X		45 CFR 164.308(a)(4)(ii)(B)	A.7.1.3 A.10.1.4 A.12.4.2 A.12.5.1	SA-11 CM-04	NIST SP800-53 R3 SA-11 NIST SP800-53 R3 SA-11 (1) NIST SP800-53 R3 CM-04	6.4.3	L.2.18			12.6	Commandment #9 Commandment #10 Commandment #11	CIP-003-3 - R6		
Data Governance - Information Leakage	DG-07	Security mechanisms shall be implemented to prevent data leakage.	データ漏えいを防ぐために、セキュリティのメカニズムを導入しなければならない。			X	X	X	X	X	X	X		DS 11.6		A.10.6.2 A.12.5.4	AC-2 AC-3 AC-4 AC-6 AC-11 AU-13 PE-19 SC-28 SA-8 SI-7	NIST SP800-53 R3 AC-2 (1) NIST SP800-53 R3 AC-2 (2) NIST SP800-53 R3 AC-2 (3) NIST SP800-53 R3 AC-2 (4) NIST SP800-53 R3 AC-2 (7) NIST SP800-53 R3 AC-3 NIST SP800-53 R3 AC-6 (1) NIST SP800-53 R3 AC-6 (2) NIST SP800-53 R3 AC-11 (1) NIST SP800-53 R3 AU-13 NIST SP800-53 R3 PE-19 NIST SP800-53 R3 SC-28 NIST SP800-53 R3 SC-28 (1) NIST SP800-53 R3 SA-8 NIST SP800-53 R3 SI-7 (1)	1.2 6.5.5 11.1 11.2 11.3 11.4 11.4 A.1	L.2.18		7.2.1 8.1.0 8.1.1 8.2.1 8.2.2 8.2.5 8.2.6	Commandment #4 Commandment #5 Commandment #6 Commandment #7 Commandment #8 Commandment #9 Commandment #10 Commandment #11				
Data Governance - Risk Assessments	DG-08	Risk assessments associated with data governance requirements shall be conducted at planned intervals considering the following: * Awareness of where sensitive data is stored and transmitted across applications, databases, servers and network infrastructure * Compliance with defined retention periods and end-of-life disposal requirements * Data classification and protection from unauthorized use, access, loss, destruction, and falsification	データ管理の要求事項にかかわるリスクアセスメントは、以下を考慮に入れ、定期的に実施されなければならない。 *機密データがどこに保管され、どのようなアプリケーションやデータベース、サーバ、ネットワークインフラ間でやり取りされているかを認識すること *所定の保管期間や保管期限満了後の廃棄の要件を遵守すること *データの分類及び認可されていない使用、アクセス、紛失、破壊、偽造からの保護			X	X	X	X	X	X	X		PO 9.1 PO 9.2 PO 9.4 DS 5.7	45 CFR 164.308(a)(1)(ii)(A) 45 CFR 164.308(a)(8)	Clause 4.2.1 c) & g) Clause 4.2.3 d) Clause 4.3.1 & 4.3.3 Clause 7.2 & 7.3 A.7.2 A.15.1.1 A.15.1.3 A.15.1.4	CA-3 RA-2 RA-3 MP-8 PM-9 SI-12	NIST SP800-53 R3 CA-3 NIST SP800-53 R3 RA-2 NIST SP800-53 R3 RA-3 NIST SP800-53 R3 MP-8 NIST SP800-53 R3 PM-9 NIST SP800-53 R3 SI-12	12.1 12.1.2	L.4, L.5, L.6, L.7		12.4 8.2.1	Commandment #1 Commandment #2 Commandment #3 Commandment #6 Commandment #7 Commandment #9 Commandment #10 Commandment #11				
Facility Security - Policy	FS-01	Policies and procedures shall be established for maintaining a safe and secure working environment in offices, rooms, facilities and secure areas.	オフィスや顧客、施設、セキュリティエリア内での安全な労働環境を維持するための方針や手順が確立されなければならない。		X						X	X	X	X	DS 5.7 DS 12.1 DS 12.4 DS 4.8	45 CFR 164.310 (a)(1) 45 CFR 164.310 (a)(2)(ii) 45 CFR 164.308(a)(3)(ii)(A) 45 CFR 164.310 (a)(2)(iii) (New)	A.5.1.1 A.9.1.3 A.9.1.5	CA-2 PE-1 PE-6 PE-7 PE-8	NIST SP800-53 R3 CA-2 (1) NIST SP800-53 R3 PE-1 NIST SP800-53 R3 PE-6 NIST SP800-53 R3 PE-6 (1) NIST SP800-53 R3 PE-7 (1) NIST SP800-53 R3 PE-8	9.1 9.2 9.3 9.4	F.1.1, F.1.2, F.1.3, F.1.4, F.1.5, F.2 F.1.6, F.1.7, F.1.8, F.1.9, F.2.1, F.2.2, F.2.3, F.2.4, F.2.5, F.2.6, F.2.7, F.2.8, F.2.9, F.2.10, F.2.11, F.2.12, F.2.13, F.2.14, F.2.15, F.2.16, F.2.17, F.2.18, F.2.19, F.2.20		8.1.0 8.1.1 8.2.1	Commandment #1 Commandment #2 Commandment #3 Commandment #5			
Facility Security - User Access	FS-02	Physical access to information assets and functions by users and support personnel shall be restricted.	ユーザ及びサポートスタッフによる情報資産や機能への物理的なアクセスは制限されなければならない。		X						X	X			45 CFR 164.310(a)(1) 45 CFR 164.310(a)(2)(ii) 45 CFR 164.310(b) 45 CFR 164.310 (c) (New)	A.9.1.1 A.9.1.2	PE-2 PE-3 PE-4 PE-5 PE-6	NIST SP800-53 R3 PE-2 NIST SP800-53 R3 PE-2 (1) NIST SP800-53 R3 PE-3 NIST SP800-53 R3 PE-4 NIST SP800-53 R3 PE-5 NIST SP800-53 R3 PE-6 (1)	9.1 9.2 9.2.3	F.1.2.3, F.1.2.4, F.1.2.5, F.1.2.6, F.1.2.8, F.1.2.9, F.1.2.10, F.1.2.11, F.1.2.12, F.1.2.13, F.1.2.14, F.1.2.15, F.1.2.24, F.1.4.2, F.1.4.6, F.1.4.7, F.1.7, F.1.8, F.2.13, F.2.14, F.2.15, F.2.16, F.2.17, F.2.18	H.6		8.2.1 8.2.2 8.2.3	Commandment #1 Commandment #2 Commandment #3 Commandment #5	CIP-006-3c R1.2 - R1.3 - R1.4 R2 - R2.2		
Facility Security - Controlled Access Points	FS-03	Physical security perimeters (fences, walls, barriers, guards, gates, electronic surveillance, physical authentication mechanisms, reception desks and security patrols) shall be implemented to safeguard sensitive data and information systems.	機密データや情報システムを保護するため、物理的セキュリティ境界(たとえ、壁、ガードマン、ゲート、電子的監視、物理的認証メカニズム、受付、セキュリティパトロール)を設置しなければならない。		X						X	X	X	DS 12.3		A.9.1.1	PE-2 PE-3 PE-6 PE-18	NIST SP800-53 R3 PE-2 NIST SP800-53 R3 PE-2 (1) NIST SP800-53 R3 PE-3 NIST SP800-53 R3 PE-6 (1) NIST SP800-53 R3 PE-18	9.1 9.2 9.3 9.2	F.1.2.3, F.1.2.4, F.1.2.5, F.1.2.6, F.1.2.8, F.1.2.9, F.1.2.10, F.1.2.11, F.1.2.12, F.1.2.13, F.1.2.14, F.1.2.15, F.1.2.24, F.1.3, F.1.4.2, F.1.4.6, F.1.4.7, F.1.6, F.1.7, F.1.8, F.2.13, F.2.14, F.2.15, F.2.16, F.2.17, F.2.18	F.2		8.2.3	Commandment #1 Commandment #2 Commandment #3 Commandment #5	CIP-006-3c R1.2 - R1.3 - R1.4 R1.6 - R1.6.1 - R2 - R2.2		
Facility Security - Secure Area Authorization	FS-04	Ingress and egress to secure areas shall be contained and monitored by physical access control mechanisms to ensure that only authorized personnel are allowed access.	認可された者だけにアクセスを許すことを確実にするために、セキュリティエリアへの入室等は、物理的なアクセス制御メカニズムにより制限され、監視されなければならない。 Physical controls and attestation mechanisms shall be designed to address the requirements of legislative plurality and their results shared with tenants. 物理的な制御と認証システムは複数の法的要求を満たしている事をテナントと確認しておく事。		X						X	X	X	DS 12.2 DS 12.3		A.9.1.1 A.9.1.2	PE-2 PE-3 PE-6 PE-7 PE-8 PE-18	NIST SP800-53 R3 PE-2 NIST SP800-53 R3 PE-2 (1) NIST SP800-53 R3 PE-3 NIST SP800-53 R3 PE-6 NIST SP800-53 R3 PE-6 (1) NIST SP800-53 R3 PE-7 (1) NIST SP800-53 R3 PE-8 NIST SP800-53 R3 PE-18	9.1 9.1.1 9.1.2 9.1.3 9.2	F.1.2.3, F.1.2.4, F.1.2.5, F.1.2.6, F.1.2.8, F.1.2.9, F.1.2.10, F.1.2.11, F.1.2.12, F.1.2.13, F.1.2.14, F.1.2.15, F.1.2.24, F.1.3, F.1.4.2, F.1.4.6, F.1.4.7, F.1.6, F.1.7, F.1.8, F.2.13, F.2.14, F.2.15, F.2.16, F.2.17, F.2.18	F.2		8.2.3	Commandment #1 Commandment #2 Commandment #3 Commandment #5	CIP-006-3c R1.2 - R1.3 - R1.4 R1.6 - R1.6.1 - R2 - R2.2		
Facility Security - Unauthorized Persons Entry	FS-05	Ingress and egress points such as service areas and other points where unauthorized personnel may enter the premises shall be monitored, controlled and, if possible, isolated from data storage and processing facilities to prevent unauthorized data corruption, compromise and loss.	サービスエリアなどの出入口、及び許可されていない者が敷地内に立ち入ることもある場所は、監視、制御、また可能であれば、データの発注、送達、貯蔵を妨げるために、データ保管・処理施設から離すこと。 施設の管理・清掃業者、自動販売機のメンテナンス員等、データへのアクセス権が無い者が立ち入る可能性が有る場合、密閉(または監視等)を行う事。特に機密情報がある区域への立入りは、帯同し自機による監視を行う事。 機密情報より機密度の低い情報の場合は、守秘契約を締結し、監視カメラによる録音の元車載での立入りを認める。		X	X	X	X	X	X	X	X	X	DS 12.3		A.9.1.6	PE-7 PE-16 PE-18	NIST SP800-53 R3 PE-7 NIST SP800-53 R3 PE-7 (1) NIST SP800-53 R3 PE-18					8.2.3	Commandment #1 Commandment #2 Commandment #3 Commandment #5	CIP-006-3c R1.2 - R1.3 - R1.4		

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance							Corp Gov Relevance	Cloud Service Delivery Model Applicability			Scope Applicability													
				Phys	Network	Compute	Storage	App	Data	SaaS		PaaS	IaaS	Collocated	Hybrid	Public	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedRAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP	
										X		X	X	X	X	X												X
Information Security - Policy Reviews	IS-05	Management shall review the information security policy at planned intervals or as a result of changes to the organization to ensure its continuing effectiveness and accuracy.	情シテリテ基本方針は、あらかじめ定められた頻度で、又は重大な変更が発生した場合に、それが引き続き適切、妥当、及び有効であることを確認するために、経営陣がレビューすること。 Proposed v1.1 control revision redacted due to potential mapping impact not yet considered. Security policy changes with material operational impact must require formal notification of subcontractors, tenants, supporting service tiers and employees of the impact and ramifications. 運用の変更を伴うセキュリティ方針の変更は、その影響および考慮し、請負人、テナント、およびそれに關するサービス業者および利用者正式に通知される事。							X	X	X	X	X	X		DS 5.2 DS 5.4	45 CFR 164.316 (b)(2)(iii) 45 CFR 164.309c	Clause 4.2.3 f) A.5.1.2	AC-1 AT-1 AU-1 CA-1 CM-1 CP-1 IA-1 IA-5 IR-1 MA-1 MP-1 PE-1 PL-1 PM-1 PS-1 RA-1 SA-1 SC-1 SI-1	NIST SP800-53 R3 AC-1 NIST SP800-53 R3 AT-1 NIST SP800-53 R3 AU-1 NIST SP800-53 R3 CA-1 NIST SP800-53 R3 CM-1 NIST SP800-53 R3 CP-1 NIST SP800-53 R3 IA-1 NIST SP800-53 R3 IA-5 NIST SP800-53 R3 IA-5 (1) NIST SP800-53 R3 IA-5 (2) NIST SP800-53 R3 IA-5 (3) NIST SP800-53 R3 IA-5 (6) NIST SP800-53 R3 IA-5 (7) NIST SP800-53 R3 IR-1 NIST SP800-53 R3 MA-1 NIST SP800-53 R3 MP-1 NIST SP800-53 R3 PE-1 NIST SP800-53 R3 PL-1 NIST SP800-53 R3 PM-1 NIST SP800-53 R3 PS-1 NIST SP800-53 R3 RA-1 NIST SP800-53 R3 SA-1 NIST SP800-53 R3 SC-1 NIST SP800-53 R3 SI-1	12.1.3	B.1.33, B.1.34,	B.2	12.1 8.2.7 10.2.3	Commandment #1 Commandment #2 Commandment #3	CIP-003-3 - R3.2 - R3.3 - R1.3 R3 - R3.1 - R3.2 - R3.3	
Information Security - Policy Enforcement	IS-06	A formal disciplinary or sanction policy shall be established for employees who have violated security policies and procedures. Employees shall be made aware of what action might be taken in the event of a violation and stated as such in the policies and procedures.	セキュリティ方針や手順に違反した従業員に対する正式な懲戒あるいは制裁ポリシーを導入すること。違反した場合にはその方針や手順が適用されるものについて方針や手順に明記され、従業員はそれを認識すること。							X	X	X	X	X	X		PO 7.7	45 CFR 164.308 (a)(1)(v)(C)	A.8.2.3	PL-4 PS-1 PS-8	NIST SP800-53 R3 PL-4 NIST SP800-53 R3 PS-1 NIST SP800-53 R3 PS-8		B.1.5			10.2.4	Commandment #6 Commandment #7	
Information Security - User Access Policy	IS-07	User access policies and procedures shall be documented, approved and implemented for granting and revoking normal and privileged access to applications, databases, and server and network infrastructure in accordance with business, security, compliance and service level agreement (SLA) requirements.	利用者アクセス制御ポリシーや手順は、業務上、セキュリティ上、法令上、及びSLAの要求事項に基づいて文書化し、承認し、導入すること。制御方針ではアプリケーションやデータベース、サーバー、ネットワークインフラへのアクセス権（一般および特権）の許可及び取り消しについて定めること。	X	X	X	X	X	X	X	X	X	X	X	X		DS 5.4	45 CFR 164.308 (a)(3)(f) 45 CFR 164.312 (a)(1) 45 CFR 164.308 (a)(2)(iv) 45 CFR 164.308 (a)(4)(ii)(B) 45 CFR 164.308 (a)(4)(v)(c)	A.11.1.1 A.11.2.1 A.11.2.4 A.11.4.1 A.11.5.2 A.11.6.1	AC-1 IA-1	NIST SP800-53 R3 AC-1 NIST SP800-53 R3 IA-1	3.5.1 8.5.1 12.5.4	B.1.8, B.1.21, B.1.28, E.6.2, H.1.1, K.1.4.5,	B.1	8.1.0	Commandment #6 Commandment #7 Commandment #8	CIP-007-3 - R5.1 - R5.1.2	
Information Security - User Access Restriction / Authorization	IS-08	Normal and privileged user access to applications, systems, databases, network configurations, and sensitive data and functions shall be restricted and approved by management prior to access granted.	アプリケーションやシステム、データベース、ネットワーク構造、秘密データや機能への一般及び特権利用者のアクセスは、事前に管理者により承認され、制限されること。		X	X	X	X	X		X	X	X	X	X		DS5.4	45 CFR 164.308 (a)(3)(f) 45 CFR 164.308 (a)(3)(ii)(A) 45 CFR 164.308 (a)(4)(i) 45 CFR 164.308 (a)(4)(ii)(B) 45 CFR 164.308 (a)(4)(v)(C) 45 CFR 164.312 (a)(1)	A.11.2.1 A.11.2.2 A.11.4.1 A.11.4.2 A.11.6.1	AC-3 AC-5 AC-6 IA-2 IA-4 IA-5 IA-6 MA-5 PS-6 SA-7 SI-9	NIST SP800-53 R3 AC-3 NIST SP800-53 R3 AC-3 (3) NIST SP800-53 R3 AC-5 NIST SP800-53 R3 AC-6 NIST SP800-53 R3 AC-6 (1) NIST SP800-53 R3 AC-6 (2) NIST SP800-53 R3 IA-2 NIST SP800-53 R3 IA-2 (1) NIST SP800-53 R3 IA-2 (2) NIST SP800-53 R3 IA-2 (3) NIST SP800-53 R3 IA-2 (8) NIST SP800-53 R3 IA-4 NIST SP800-53 R3 IA-4 (4) NIST SP800-53 R3 IA-6 NIST SP800-53 R3 IA-5 (1) NIST SP800-53 R3 IA-5 (2) NIST SP800-53 R3 IA-5 (3) NIST SP800-53 R3 IA-5 (6) NIST SP800-53 R3 IA-5 (7) NIST SP800-53 R3 IA-8 NIST SP800-53 R3 MA-5 NIST SP800-53 R3 PS-6 NIST SP800-53 R3 SA-7 NIST SP800-53 R3 SI-9	7.1 7.1.1 7.1.2 7.1.3 7.2.1 7.2.2 8.5.1 12.5.4	H.2.4, H.2.5,		8.2.2	Commandment #6 Commandment #7 Commandment #8 Commandment #9 Commandment #10	CIP-003-3 - R5.1.1 - R5.3 CIP-004-3 R2.2 CIP-007-3 R5.1 - R5.1.2	
Information Security - User Access Revocation	IS-09	Timely deprovisioning, revocation or modification of user access to the organizations systems, information assets and data shall be implemented upon any change in status of employees, contractors, customers, business partners or third parties. Any change in status is intended to include termination of employment, contract or agreement, change of employment or transfer within the organization.	組織のシステムや情報資産、データへのアクセス権は、従業員、契約相手、顧客、事業パートナー、または第三者の雇用もしくは契約や合意の終了時、または組織内の異動や雇用の変更時に適宜停止、削除、変更すること。	X	X	X	X	X	X	X	X	X	X	X	X		DS 5.4	45 CFR 164.308 (a)(3)(ii)(C)	ISO/IEC 27001:2005 A.8.3.3 A.11.1.1 A.11.2.1 A.11.2.2	AC-2 PS-4 PS-5	NIST SP800-53 R3 AC-2 NIST SP800-53 R3 AC-2 (1) NIST SP800-53 R3 AC-2 (2) NIST SP800-53 R3 AC-2 (3) NIST SP800-53 R3 AC-2 (4) NIST SP800-53 R3 AC-2 (7) NIST SP800-53 R3 PS-4 NIST SP800-53 R3 PS-5	8.5.4 8.5.5	E.6.2, E.6.3	H.2	8.2.1	Commandment #6 Commandment #7 Commandment #8	CIP-004-3 R2.2.3 CIP-007-3 - R5.1.1 - R5.2.1 - R5.2.3	
Information Security - User Access Reviews	IS-10	All levels of user access shall be reviewed by management at planned intervals and documented. For access violations identified, remediation must follow documented access control policies and procedures.	管理者は、利用者のアクセス権をあらかじめ定められた間隔でレビューし、記録を保持すること。アクセス権の違反を発見した場合は、文書化されたアクセス制御方針・手順に従い、是正措置を執ること。 Proposed v1.1 control revision redacted until future revision due to potential mapping impact not yet considered. Periodic attestation of entitlement rights for all system users is required. Attestation for entitlement rights should extend to users in supporting service tiers (IaaS, SaaS, PaaS, IDaaS...). Automatic or manual remediation shall be implemented for identified violations. All system users of the identified violations. All system users of the identified violations (特権)は、定期的に証明(検査)されること。権限(資格)の証明は、間接的な支援サービス層(IaaS, SaaS, PaaS, IDaaS...)まで行わなければならない。違反が判明した場合には、自動または手動による対応を要する事。	X	X	X	X	X	X	X	X	X	X	X	X		DS5.3 DS5.4	45 CFR 164.308 (a)(3)(ii)(B) 45 CFR 164.308 (a)(4)(v)(C)	A.11.2.4	AC-2 AU-6 PM-10 PS-6 PS-7	NIST SP800-53 R3 AC-2 NIST SP800-53 R3 AC-2 (1) NIST SP800-53 R3 AC-2 (2) NIST SP800-53 R3 AC-2 (3) NIST SP800-53 R3 AC-2 (4) NIST SP800-53 R3 AC-2 (7) NIST SP800-53 R3 AU-6 NIST SP800-53 R3 AU-6 (1) NIST SP800-53 R3 AU-6 (3) NIST SP800-53 R3 PM-10 NIST SP800-53 R3 PS-6 NIST SP800-53 R3 PS-7		H.2.6, H.2.7, H.2.9,		8.2.1 8.2.7	Commandment #6 Commandment #7 Commandment #8 Commandment #10	CIP-004-3 R2.2.2 CIP-007-3 - R5 - R.1.3	
Information Security - Training / Awareness	IS-11	A security awareness training program shall be established for all contractors, third party users and employees of the organization and mandated when appropriate. All individuals with access to organizational data shall receive appropriate awareness training and regular updates in organizational procedures, process and policies, relating to their function relative to the organization.	組織のすべての従業員、及び契約相手、第三者の利用者に対し、セキュリティ意識向上の教育プログラムを構築し、必要であれば強制的に実施すること。組織のデータにアクセスするすべての者が、業務に関連する組織の方針・手順・手続きについての適切な意識向上のための教育・訓練を受け、また定期的な更新を受けなければならない。 Proposed v1.1 control revision redacted until future revision due to potential mapping impact not yet considered. A security awareness training program that addresses multi-tenant, nationality and cloud delivery model SOD and conflicts of interest shall be established for all contractors, third party users, tenants and employees of the organization. All individuals with access to tenant data shall receive appropriate awareness training and regular updates in organizational procedures, process and policies, relating to their function relative to the organization. セキュリティ意識向上のための教育プログラムでは、マルチテナント、国籍性、クラウドデリバリーモデルSOD、利害衝突などを網羅している事。対象は、契約社員(従業員)、サードパーティのユーザー、テナント、および組織の社員のみで行うこと。テナントのデータにアクセスがある全員が、適切な教育を受け、社内の役割に応じて、社内事項、プロセス、方針について定期的に更新・変更を確認する事。	X	X	X	X	X	X	X	X	X	X	X	X		PO 7.4	45 CFR 164.308 (a)(5)(i) 45 CFR 164.308 (a)(5)(ii)(A)	Clause 5.2.2 A.8.2.2	AT-1 AT-2 AT-3 AT-4	NIST SP800-53 R3 AT-1 NIST SP800-53 R3 AT-2 NIST SP800-53 R3 AT-3 NIST SP800-53 R3 AT-4	12.6 12.6.1 12.6.2	E.4	E.1	12.10 8.2.1	Commandment #3 Commandment #6	CIP-004-3 - R1 - R2 - R2.1	
Information Security - Industry Knowledge / Benchmarking	IS-12	Industry security knowledge and benchmarking through networking, specialist security forums, and professional associations shall be maintained.	セキュリティに関する研究会や会議、セキュリティの専門家による協会や団体との適切な連絡体制を維持すること。							X	X	X	X	X	X			A.6.1.7	AT-5 SI-5	NIST SP800-53 R3 AT-5 NIST SP800-53 R3 SI-5		C.1.8				Commandment #1 Commandment #2 Commandment #3		
Information Security - Roles / Responsibilities	IS-13	Roles and responsibilities of contractors, employees and third party users shall be documented as they relate to information assets and security.	情報資産やセキュリティへの関わりに応じて、従業員、契約相手及び第三者の利用者の役割や責任を文書に定めること。	X	X	X	X	X	X	X	X	X	X	X	X		DS5.1	Clause 5.1 c) A.6.1.2 A.6.1.3 A.8.1.1	AT-3 PL-4 PM-10 PS-1 PS-6 PS-7	NIST SP800-53 R3 AT-3 NIST SP800-53 R3 PL-4 NIST SP800-53 R3 PM-10 NIST SP800-53 R3 PS-1 NIST SP800-53 R3 PS-6 NIST SP800-53 R3 PS-7		B.1.5, D.1.1, D.1.3.3, E.1, F.1.1, H.1.1, K.1.2	B.1	12.9 8.2.1	Commandment #6 Commandment #7 Commandment #8			

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance							Corp Gov Relevanc e	Cloud Service Delivery Model Applicability			Scope Applicability												
				Phys	Network	Compute	Storage	App	Data	SaaS		PaaS	IaaS	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedRAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP			
Information Security - Management Oversight	IS-14	Managers are responsible for maintaining awareness of and complying with security policies, procedures and standards that are relevant to their area of responsibility.	管理者は、自らの責任範囲に関わるセキュリティ方針、手順、標準について認識し、遵守する責任がある								X	X	X	X	X	X	DS3.3 DS3.4 DS5.5		Clause 5.2.2 A.8.2.1 A.8.2.2 A.11.2.4 A.15.2.1	AT-2 AT-3 CA-1 CA-5 CA-6 CA-7 PM-10	NIST SP800-53 R3 AT-2 NIST SP800-53 R3 AT-3 NIST SP800-53 R3 CA-1 NIST SP800-53 R3 CA-5 NIST SP800-53 R3 CA-6 NIST SP800-53 R3 CA-7 NIST SP800-53 R3 CA-7 (2) NIST SP800-53 R3 PM-10	12.6.1 12.6.2	E.4	E.1	11.2 8.2.1	Commandment #6 Commandment #7 Commandment #8	
Information Security - Segregation of Duties	IS-15	Policies, process and procedures shall be implemented to enforce and assure proper segregation of duties. In those events where user/role conflict of interest constraint exist, technical controls shall be in place to mitigate any risks arising from unauthorized or unintentional modification or misuse of the organization's information assets.	適切な職務の分業を確実に実施するための方針、手続き、手順を確立すること。利用者役割に利害の対立が存在する場合、組織の権限や役割が与えられていないまたは意図しない変更または誤用の危険性を低減するための技術的対策を導入すること。		X	X	X	X	X	X	X	X	X	X	X	X	DS 5.4	45 CFR 164.308 (a)(1)(iv)(D) 45 CFR 164.308 (a)(3)(ii)(A) 45 CFR 164.308 (a)(4)(ii)(A) 45 CFR 164.308 (a)(5)(ii)(C) 45 CFR 164.312 (b)	A.10.1.3	AC-1 AC-2 AC-5 AC-6 AU-1 AU-6 SI-1 SI-4	NIST SP800-53 R3 AC-1 NIST SP800-53 R3 AC-2 NIST SP800-53 R3 AC-2 (1) NIST SP800-53 R3 AC-2 (2) NIST SP800-53 R3 AC-2 (3) NIST SP800-53 R3 AC-2 (4) NIST SP800-53 R3 AC-2 (7) NIST SP800-53 R3 AC-5 NIST SP800-53 R3 AC-6 NIST SP800-53 R3 AC-6 (1) NIST SP800-53 R3 AC-6 (2) NIST SP800-53 R3 AU-1 NIST SP800-53 R3 AU-6 NIST SP800-53 R3 AU-6 (1) NIST SP800-53 R3 AU-6 (3) NIST SP800-53 R3 SI-1 NIST SP800-53 R3 SI-4 NIST SP800-53 R3 SI-4 (2) NIST SP800-53 R3 SI-4 (4) NIST SP800-53 R3 SI-4 (5) NIST SP800-53 R3 SI-4 (6)	6.4.2	G.2.13, G.3, G.20.1, G.20.2, G.20.5		8.2.2	Commandment #6 Commandment #7 Commandment #10	CIP-007-3 R5.1.1
Information Security - User Responsibility	IS-16	Users shall be made aware of their responsibilities for: • Maintaining awareness and compliance with published security policies, procedures, standards and applicable regulatory requirements • Maintaining a safe and secure working environment • Leaving unattended equipment in a secure manner	利用者は以下の責任を認識すること。 • 公表されたセキュリティ方針、手順、標準、関連する規制上の要求事項を認識し、遵守すること • 安全、安心な職場環境を維持すること • 無人状態にある装置の保護措置を講ずること		X	X	X	X	X	X	X	X	X	X	X	X	PO 4.6	45 CFR 164.308 (a)(5)(ii)(D)	Clause 5.2.2 A.8.2.2 A.11.3.1 A.11.3.2	AT-2 AT-3 AT-4 PL-4	NIST SP800-53 R3 AT-2 NIST SP800-53 R3 AT-4 NIST SP800-53 R3 PL-4	8.5.7 12.6.1	E.4	E.1	12.10 8.2.1	Commandment #5 Commandment #6 Commandment #7	
Information Security - Workspace	IS-17	Policies and procedures shall be established for clearing visible documents containing sensitive data when a workspace is unattended and enforcement of workstation session logout for a period of inactivity.	個人の作業場所において、機密データを含む文書が閲覧されることがないように、また不使用时はワークステーションのセッションを強制的ログアウトするように、方針、手順を確立すること。 Policies and procedures shall be established for proper data management within the provider environment. Policies and procedures must resolve conflicts of interests and include a tamper audit function, that trips a tamper audit to the customer if the integrity of the tenant data has potentially been compromised. (access not authorized by tenant or data loss) プロバイダの環境において、適切なデータ管理に方針や手順が定められている事。方針や手順は、改ざん監査機能などの侵害の不一致などを検定し解決を促す事。テナントのデータの完全性が侵害されているか、ユーザに対する監査(テナントが許可していないデータまたはデータ損失)なども考慮する事。		X					X	X	X	X	X	X	X			Clause 5.2.2 A.8.2.2 A.9.1.5 A.11.3.1 A.11.3.2 A.11.3.3	AC-11 MP-2 MP-3 MP-4	NIST SP800-53 R3 AC-11 NIST SP800-53 R3 AC-11 (1) NIST SP800-53 R3 MP-2 NIST SP800-53 R3 MP-2 (1) NIST SP800-53 R3 MP-3 NIST SP800-53 R3 MP-4 NIST SP800-53 R3 MP-4 (1)		E.4	E.1	8.2.3	Commandment #5 Commandment #6 Commandment #7 Commandment #11	
Information Security - Encryption	IS-18	Policies and procedures shall be established and mechanisms implemented for encrypting sensitive data in storage (e.g., file servers, databases, and end-user workstations) and data in transmission (e.g., system interfaces, over public networks, and electronic messaging).	ストレージ(例えば、ファイルサーバ、データベース、エンドユーザーワークステーション)内の機密データや伝送中のデータ(例えば、システムインターフェース、公衆ネットワーク上、電子メールなど)を暗号化するための方針、手順を確立すること	暗号化の強度は、最低でも脆弱性が発見されていない物を採用する事。		X	X	X	X	X	X	X	X	X	X	X	DS5.8 DS5.10 DS5.11	45 CFR 164.312 (a)(2)(iv) 45 CFR 164.312 (a)(1) 45 CFR 164.312 (a)(2)(ii)	A.10.6.1 A.10.8.3 A.10.8.4 A.10.9.2 A.10.9.3 A.12.3.1 A.15.1.3 A.15.1.4	AC-18 IA-3 IA-7 IA-7 SC-7 SC-8 SC-9 SC-13 SC-16 SC-23 SI-8	NIST SP800-53 R3 AC-18 NIST SP800-53 R3 AC-18 (1) NIST SP800-53 R3 AC-18 (3) NIST SP800-53 R3 AC-18 (4) NIST SP800-53 R3 AC-18 (5) NIST SP800-53 R3 IA-3 NIST SP800-53 R3 IA-7 NIST SP800-53 R3 SC-7 (1) NIST SP800-53 R3 SC-7 (2) NIST SP800-53 R3 SC-7 (3) NIST SP800-53 R3 SC-7 (4) NIST SP800-53 R3 SC-7 (5) NIST SP800-53 R3 SC-7 (7) NIST SP800-53 R3 SC-7 (8) NIST SP800-53 R3 SC-7 (12) NIST SP800-53 R3 SC-7 (13) NIST SP800-53 R3 SC-7 (18) NIST SP800-53 R3 SC-8 NIST SP800-53 R3 SC-8 (1) NIST SP800-53 R3 SC-9 NIST SP800-53 R3 SC-9 (1) NIST SP800-53 R3 SC-13	2.1.1 3.4 3.4.1 4.1 4.1.1 4.2	G.10.4, G.11.1, G.11.2, G.12.1, G.12.2, G.12.4, G.12.10, G.14.18, G.14.19, G.16.2, G.16.18, G.16.19, G.17.16, G.17.17, G.18.13, G.18.14, G.19.1.1, G.20.14	G.4 G.15 I.3	8.1.1 8.2.1 8.2.5	Commandment #4 Commandment #6 Commandment #9 Commandment #10 Commandment #11	CIP-003-3 - R4.2
Information Security - Encryption Key Management	IS-19	Policies and procedures shall be established and mechanisms implemented for effective key management to support encryption of data in storage and in transmission.	ストレージ内や伝送中のデータの暗号化を支援するために、効果的な鍵管理のための方針、手順を確立し、実施すること。			X		X	X	X	X	X	X	X	X	X	DS5.8	45 CFR 164.312 (a)(2)(iv) 45 CFR 164.312(a)(1)	Clause 4.3.3 A.10.7.3 A.12.3.2 A.15.1.6	SC-12 SC-13 SC-17 SC-28	NIST SP800-53 R3 SC-12 NIST SP800-53 R3 SC-12 (2) NIST SP800-53 R3 SC-12 (5) NIST SP800-53 R3 SC-13 NIST SP800-53 R3 SC-13 (1) NIST SP800-53 R3 SC-17 NIST SP800-53 R3 SC-28 NIST SP800-53 R3 SC-28 (1)	3.4.1 3.5 3.5.1 3.5.2 3.6 3.6.1 3.6.2 3.6.3 3.6.4 3.6.5 3.6.6 3.6.7 3.6.8	L.6		8.1.1 8.2.1 8.2.5	Commandment #9 Commandment #10 Commandment #11	
Information Security - Vulnerability Patch Management	IS-20	Policies and procedures shall be established and mechanism implemented for vulnerability and patch management, ensuring that application, system, and network device vulnerabilities are evaluated and vendor-supplied security patches applied in a timely manner taking a risk-based approach for prioritizing critical patches.	脆弱性やパッチ管理の方針、手順を確立し、実施すること。それにより、アプリケーションやシステム、ネットワーク機器の脆弱性を確実に評価し、重要なパッチを優先的に適用する(リスクベースの手法により)、ベンダーが供給するセキュリティパッチを迅速に適用できるようにすること。			X	X	X	X	X	X	X	X	X	X	X	AI6.1 AI3.3 DS5.9	45 CFR 164.308 (a)(1)(ii)(A) 45 CFR 164.308 (a)(1)(ii)(B) 45 CFR 164.308 (a)(5)(ii)(B)	A.12.5.1 A.12.5.2 A.12.6.1	CM-3 CM-4 CP-10 RA-5 SA-7 SI-1 SI-2 SI-5	NIST SP800-53 R3 CM-3 NIST SP800-53 R3 CM-3 (2) NIST SP800-53 R3 CM-4 NIST SP800-53 R3 CP-10 NIST SP800-53 R3 CP-10 (2) NIST SP800-53 R3 CP-10 (3) NIST SP800-53 R3 RA-5 NIST SP800-53 R3 RA-5 (1) NIST SP800-53 R3 RA-5 (2) NIST SP800-53 R3 RA-5 (3) NIST SP800-53 R3 RA-5 (6) NIST SP800-53 R3 RA-5 (6) NIST SP800-53 R3 SA-7 NIST SP800-53 R3 SI-1 NIST SP800-53 R3 SI-2 NIST SP800-53 R3 SI-2 (2) NIST SP800-53 R3 SI-5	2.2 6.1 6.2 6.3.2 6.4.5 6.5 6.6 11.2 11.2.1 11.2.2 11.2.3	G.15.2, I.3	I.4	12.6 8.2.7	Commandment #4 Commandment #5	CIP-004-3 R4 - 4.1 - 4.2 CIP-005-3a - R1 - R1.1 CIP-007-3 - R3 - R3.1 - R8.4

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance						Corp Gov Relevanc e	Cloud Service Delivery Model Applicability			Supplier Relationship		Scope Applicability															
				Phys	Network	Compute	Storage	App	Data		SaaS	PaaS	IaaS	Cloud	Hybrid	On-Prem	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedrAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP				
Information Security - Anti-Virus / Malicious Software	IS-21	Ensure that all antivirus programs are capable of detecting, removing, and protecting against all known types of malicious or unauthorized software with antivirus signature updates at least every 12 hours.	アンチウイルスプログラムが、すべての既知のマルウェア、もしくは検出されていないソフトウェアを検出し、除去することができるように、アンチウイルスシグネチャを少なくとも12時間おきにアップデートすること。		X	X	X	X	X	X		X	X	X	X	X	DS5.9		45 CFR 164.308 (a)(5)(ii)(B)	A.10.4.1	SA-7 SC-5 SI-3 SI-5 SI-7 SI-8	NIST SP800-53 R3 SA-7 NIST SP800-53 R3 SC-5 NIST SP800-53 R3 SI-3 NIST SP800-53 R3 SI-3 (1) NIST SP800-53 R3 SI-3 (2) NIST SP800-53 R3 SI-3 (3) NIST SP800-53 R3 SI-5 NIST SP800-53 R3 SI-7 NIST SP800-53 R3 SI-7 (1) NIST SP800-53 R3 SI-8	5.1 5.1.1 5.2	G.7			8.2.2	Commandment #4 Commandment #5	CIP-007-3 - R4 - R4.1 - R4.2		
Information Security - Incident Management	IS-22	Policies and procedures shall be established to triage security related events and ensure timely and thorough incident management.	セキュリティ関連事象を識別し、迅速で完全なインシデント管理を確保を行うための方針、手順を確立すること。		X	X	X	X	X	X		X	X	X	X	X	DS5.6		45 CFR 164.308 (a)(1)(i) 45 CFR 164.308 (a)(6)(i)	Clause 4.3.3 A.13.1.1 A.13.2.1	IR-1 IR-2 IR-3 IR-4 IR-5 IR-7 IR-8	NIST SP800-53 R3 IR-1 NIST SP800-53 R3 IR-2 NIST SP800-53 R3 IR-3 NIST SP800-53 R3 IR-4 NIST SP800-53 R3 IR-4 (1) NIST SP800-53 R3 IR-5 NIST SP800-53 R3 IR-7 NIST SP800-53 R3 IR-7 (1) NIST SP800-53 R3 IR-7 (2) NIST SP800-53 R3 IR-8	12.9 12.9.1 12.9.2 12.9.3 12.9.4 12.9.5 12.9.6	J.1.1, J.1.2	J.1			12.4 12.7 7.1.2 7.2.2 7.2.4 10.2.1 10.2.4	Commandment #2 Commandment #6 Commandment #8	CIP-007-3 - R6.1 CIP-008-3 - R1	
Information Security - Incident Reporting	IS-23	Contractors, employees and third party users shall be made aware of their responsibility to report all information security events in a timely manner. Information security events shall be reported through predefined communications channels in a prompt and expedient manner in compliance with statutory, regulatory and contractual requirements.	従業員、契約相手、第三者利用者は、あらゆる情報セキュリティ事象を迅速に報告する責任があることを認識すること。情報セキュリティ事象は、法律、規制、契約上の要求事項に従って、あらかじめ決められた連絡経路を通じて迅速かつ適切に報告すること。		X	X	X	X	X	X		X	X	X	X	X	DS5.6		45 CFR 164.312 (a)(6)(ii) 16 CFR 318.3 (a) 45 CFR 160.410 (a)(1)	Clause 4.3.3 Clause 5.2.2 A.6.1.3 A.8.2.1 A.8.2.2 A.13.1.1 A.13.2.1	IR-2 IR-6 IR-7 SI-4 SI-5	NIST SP800-53 R3 IR-2 NIST SP800-53 R3 IR-6 NIST SP800-53 R3 IR-6 (1) NIST SP800-53 R3 IR-7 NIST SP800-53 R3 IR-7 (1) NIST SP800-53 R3 IR-7 (2) NIST SP800-53 R3 SI-4 NIST SP800-53 R3 SI-4 (2) NIST SP800-53 R3 SI-4 (4) NIST SP800-53 R3 SI-4 (5) NIST SP800-53 R3 SI-4 (6) NIST SP800-53 R3 SI-5	12.5.2 12.5.3	J.1.1, E.4	J.1 E.1			12.7 1.2.10 7.1.2 7.2.2 7.2.4 10.2.4	Commandment #2 Commandment #6 Commandment #8	CIP-003-3 - R4.1 CIP-004-3 R3.3	
Information Security - Incident Response Legal Preparation	IS-24	In the event a follow-up action concerning a person or organization after an information security incident requires legal action proper forensic procedures including chain of custody shall be required for collection, retention, and presentation of evidence to support potential legal action subject to the relevant jurisdiction.	情報セキュリティインシデント発生後に、個人もしくは組織に際する事後措置として法的措置が必要になる場合に備え、証拠の収集、保存、提出を行うための、法廷で認められる適切なフォレンジック手順を確立すること。		X	X	X	X	X	X		X	X	X	X	X	DS5.6		45 CFR 164.308 (a)(6)(ii)	Clause 4.3.3 Clause 5.2.2 A.8.2.2 A.8.2.3 A.13.2.3 A.15.1.3	AU-6 AU-7 AU-9 AU-11 IR-5 IR-7 IR-8	NIST SP800-53 R3 AU-6 NIST SP800-53 R3 AU-6 (1) NIST SP800-53 R3 AU-6 (3) NIST SP800-53 R3 AU-7 NIST SP800-53 R3 AU-7 (1) NIST SP800-53 R3 AU-9 NIST SP800-53 R3 AU-9 (2) NIST SP800-53 R3 AU-11 NIST SP800-53 R3 IR-5 NIST SP800-53 R3 IR-7 NIST SP800-53 R3 IR-7 (1) NIST SP800-53 R3 IR-7 (2) NIST SP800-53 R3 IR-8	12.7 12.9	J.1.1, J.1.2, E.4	J.1 E.1			12.7		CIP-004-3 R3.3	
Information Security - Incident Response Metrics	IS-25	Mechanisms shall be put in place to monitor and quantify the types, volumes, and costs of information security incidents.	情報セキュリティインシデントのタイプ、件数、コストを測定・定量化するための仕組みを導入すること。		X	X	X	X	X	X		X	X	X	X	X	DS 4.9		45 CFR 164.308 (a)(1)(ii)(D)	A.13.2.2	IR-4 IR-5 IR-8	NIST SP800-53 R3 IR-4 NIST SP800-53 R3 IR-4 (1) NIST SP800-53 R3 IR-5 NIST SP800-53 R3 IR-8	12.9.6	J.1.2			12.7 12.10		CIP-008-3 - R1.1		
Information Security - Acceptable Use	IS-26	Policies and procedures shall be established for the acceptable use of information assets.	情報資産の利用の許容範囲に関する方針、手順を確立すること。					X	X	X		X	X	X	X	X	DS 5.3		45 CFR 164.310 (b)	A.7.1.3	AC-8 AC-20 PL-4	NIST SP800-53 R3 AC-8 NIST SP800-53 R3 AC-20 NIST SP800-53 R3 AC-20 (1) NIST SP800-53 R3 AC-20 (2) NIST SP800-53 R3 PL-4	12.3.5	B.1.7, D.1.3.3, E.3.2, E.3.5.1, E.3.5.2	B.3			8.1.0	Commandment #1 Commandment #2 Commandment #3		
Information Security - Asset Returns	IS-27	Employees, contractors and third party users must return all assets owned by the organization within a defined and documented time frame once the employment, contract or agreement has been terminated.	従業員、契約相手及び第三者の利用者は、雇用、契約又は合意の終了時に、自らが所有する組織の資産すべてを、文書で定められた所定の期間内に返却しなければならない。		X	X	X	X	X	X		X	X	X	X	X			45 CFR 164.308 (a)(3)(ii)(C)	A.7.1.1 A.7.1.2 A.8.3.2	PS-4	NIST SP800-53 R3 PS-4		E.6.4		D.1			5.2.3 7.2.2 8.2.1 8.2.6		
Information Security - eCommerce Transactions	IS-28	Electronic commerce (e-commerce) related data traversing public networks shall be appropriately classified and protected from fraudulent activity, unauthorized disclosure or modification in such a manner to prevent contract dispute and compromise of data.	公衆ネットワークを経由してデータをやり取りする電子取引は、不正行為、許可されていない開示や改ざんのような行為から契約上の紛争やデータの漏洩を防ぐために、適切に分類され保護されるべきではない。			X			X	X		X	X	X	X	X	DS 5.10.5.11		45 CFR 164.312(a)(1) 45 CFR 164.312(a)(2)(i)	A.7.2.1 A.10.6.1 A.10.6.2 A.10.9.1 A.10.9.2 A.15.1.4	AC-14 AC-21 AC-22 IA-6 AU-10 SC-4 SC-8 SC-9	NIST SP800-53 R3 AC-14 NIST SP800-53 R3 AC-14 (1) NIST SP800-53 R3 AC-21 NIST SP800-53 R3 AC-22 NIST SP800-53 R3 IA-6 NIST SP800-53 R3 IA-6 NIST SP800-53 R3 AU-10 NIST SP800-53 R3 AU-10 (5) NIST SP800-53 R3 SC-4 NIST SP800-53 R3 SC-8 NIST SP800-53 R3 SC-8 (1) NIST SP800-53 R3 SC-9 NIST SP800-53 R3 SC-9 (1)	2.1.1 4.1 4.1.1 4.2	G.19.1.1, G.19.1.2, G.19.1.3, G.10.8, G.8.11, G.14, G.15.1	G.4 G.11 G.16 G.18 I.3 I.4			3.2.4 4.2.3 7.1.2 7.2.1 7.2.2 8.2.1 8.2.5	Commandment #4 Commandment #5 Commandment #9 Commandment #10 Commandment #11		
Information Security - Audit Tools Access	IS-29	Access to, and use of, audit tools that interact with the organizations information systems shall be appropriately segmented and restricted to prevent compromise and misuse of log data.	ログデータの悪用又は誤用を防ぐために、組織の情報システムとの監査ツールへのアクセスや利用は制限されること。		X	X	X	X	X	X		X	X	X	X	X	DS 5.7			A.15.3.2	AU-9 AU-11 AU-14	NIST SP800-53 R3 AU-9 NIST SP800-53 R3 AU-9 (2) NIST SP800-53 R3 AU-11 NIST SP800-53 R3 AU-14	10.5.5				8.2.1	Commandment #2 Commandment #5 Commandment #11	CIP-003-3 - R5.2		
Information Security - Diagnostic / Configuration Ports Access	IS-30	User access to diagnostic and configuration ports shall be restricted to authorized individuals and applications.	診断用及び環境設定用ポートへのアクセスは、許可された個人またはアプリケーションに制限すること。		X				X	X		X	X	X	X	X	DS5.7			A.10.6.1 A.11.1.1 A.11.4.4 A.11.5.4	CM-7 MA-3 MA-4 MA-5	NIST SP800-53 R3 CM-7 NIST SP800-53 R3 CM-7 (1) NIST SP800-53 R3 MA-3 NIST SP800-53 R3 MA-3 (1) NIST SP800-53 R3 MA-3 (2) NIST SP800-53 R3 MA-3 (3) NIST SP800-53 R3 MA-4 NIST SP800-53 R3 MA-4 (1) NIST SP800-53 R3 MA-4 (2) NIST SP800-53 R3 MA-5	9.1.2	H.1.1, H1.2, G.9.15				Commandment #3 Commandment #4 Commandment #5 Commandment #6 Commandment #7 Commandment #8	CIP-007-3 - R2		
Information Security - Network / Infrastructure Services	IS-31	Network and infrastructure service level agreements (in-house or outsourced) shall clearly document security controls, capacity and service levels, and business or customer requirements.	ネットワークやインフラのサービスレベルアグリーメントには、組織が自己提供するか外部委託しているかに関わらず、セキュリティコントロール制限、容量やサービスレベル、事業もしくは顧客の要求事項を明確に盛り込むこと。		X	X	X	X	X	X		X	X	X	X	X	DS5.10			A.6.2.3 A.10.6.2	SC-20 SC-21 SC-22 SC-23 SC-24	NIST SP800-53 R3 SC-20 NIST SP800-53 R3 SC-20 (1) NIST SP800-53 R3 SC-21 NIST SP800-53 R3 SC-22 NIST SP800-53 R3 SC-23 NIST SP800-53 R3 SC-24		C.2.6, G.9.9	C.2			8.2.2 8.2.5	Commandment #6 Commandment #7 Commandment #8		

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance							Corp Gov Relevance	Cloud Service Delivery Model Applicability			Supplier Relationship	Scope Applicability										
				Phys	Network	Compute	Storage	App	Data	SaaS		PaaS	IaaS	COBIT 4.1		HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedRAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP	
Information Security - Portable / Mobile Devices	IS-32	Policies and procedures shall be established and measures implemented to strictly limit access to sensitive data from portable and mobile devices, such as laptops, cell phones, and personal digital assistants (PDAs), which are generally higher-risk than non-portable devices (e.g., desktop computers at the organization's facilities).	ラップトップや携帯電話、PDAなどの携帯型機器は厳格に非可搬型機器(種類の追加)のデスクトップなどにはベリタスが低いので、可搬型機器からの機密情報へのアクセスを厳格に制限する方針、手順を確立し、実施すること。		X	X	X	X	X	X	X	X	X	X	X	X	DS5.11 DS5.5	45 CFR 164.310 (d)(1) A.7.2.1 A.10.7.1 A.10.7.2 A.10.8.3 A.11.7.1 A.11.7.2 A.15.1.4	AC-17 AC-18 AC-19 MP-2 MP-4 MP-6	NIST SP800-53 R3 AC-17 NIST SP800-53 R3 AC-17 (1) NIST SP800-53 R3 AC-17 (2) NIST SP800-53 R3 AC-17 (3) NIST SP800-53 R3 AC-17 (4) NIST SP800-53 R3 AC-17 (5) NIST SP800-53 R3 AC-17 (7) NIST SP800-53 R3 AC-17 (8) NIST SP800-53 R3 AC-18 NIST SP800-53 R3 AC-18 (1) NIST SP800-53 R3 AC-18 (2) NIST SP800-53 R3 AC-18 (3) NIST SP800-53 R3 AC-18 (4) NIST SP800-53 R3 AC-18 (5) NIST SP800-53 R3 AC-19 NIST SP800-53 R3 AC-19 (1) NIST SP800-53 R3 AC-19 (2)	9.7 9.7.2 9.8 9.9 11.1 12.3	G.11, G12, G.20.13, G.20.14	12.6 12.4 8.2.6	All	CIP-007-3 - R7.1	
Information Security - Source Code Access Restriction	IS-33	Access to application, program or object source code shall be restricted to authorized personnel on a need to know basis. Records shall be maintained regarding the individual granted access, reason for access and version of source code exposed.	アプリケーション、プログラムまたはオブジェクトソースコードへのアクセスは、許可された者に限定すること。アクセスした者やアクセスの理由、開示されたソースコードのバージョンについて記録を保持すること。 Access to application, program or object source code shall be restricted to authorized personnel based on cloud delivery model (PaaS) on a need to know basis. アプリケーション、プログラムまたはオブジェクトソースコードへのアクセスは、PaaS(クラウドデリバリーモデル)に基づき、知る必要に応じて権限を付与された担当者に限られる事。	Proposed v1.1 control revision redacted until future revision due to potential mapping impact not yet considered.			X	X	X	X	X	X	X	X	X	X	DS5.7	Clause 4.3.3 A.12.4.3 A.15.1.3	CM-5 CM-6	NIST SP800-53 R3 CM-5 NIST SP800-53 R3 CM-5 (1) NIST SP800-53 R3 CM-5 (5) NIST SP800-53 R3 CM-6 NIST SP800-53 R3 CM-6 (1) NIST SP800-53 R3 CM-6 (3)	6.4.1 6.4.2	I.2.7.2, I.2.9, I.2.10, I.2.15	12.6 6.2.1	Commandment #6 Commandment #7 Commandment #9 Commandment #10		
Information Security - Utility Programs Access	IS-34	Utility programs capable of potentially overriding system, object, network, virtual machine and application controls shall be restricted.	システム及びオブジェクト、ネットワーク、仮想マシン、アプリケーション制御を無効にすることができるユーティリティプログラムの使用は、制限すること。 Utility programs and privileged management accounts capable of potentially overriding system, object, network, virtual machine and application controls shall be restricted. Utilities that utilities that can shut down virtualized partitions shall be disallowed. Attacks that target the virtual infrastructure (Shimming, Blue Pill, Hyperjacking, etc.) shall be identified and remediated with technical and procedural controls. システム、オブジェクト、ネットワーク、仮想マシン、およびアプリケーション制御(設定)が再定義(オーバーライド)される可能性を考慮し、運用(ユーティリティ)ツールと特権管理用のアカウントの権限は制限される。仮想ハイパービルのシャットダウンが可能なツールの利用を許可しない事。仮想基盤に対する攻撃手法(Shimming, Blue Pill, Hyperjacking)などを認識し、技術的および運用的な対策を適用する事。	Proposed v1.1 control revision redacted until future revision due to potential mapping impact not yet considered.		X	X	X	X	X	X	X	X	X	X	X	DS5.7	A.11.4.1 A.11.4.4 A.11.5.4	AC-5 AC-6 CM-7 SC-3 SC-19	NIST SP800-53 R3 AC-5 NIST SP800-53 R3 AC-6 NIST SP800-53 R3 AC-6 (1) NIST SP800-53 R3 AC-6 (2) NIST SP800-53 R3 CM-7 NIST SP800-53 R3 CM-7 (1) NIST SP800-53 R3 SC-3 NIST SP800-53 R3 SC-19	7.1.2	H.2.16		Commandment #1 Commandment #5 Commandment #6 Commandment #7	CIP-007-3 - R2.1 - R2.2 - R2.3	
Legal - Non-Disclosure Agreements	LG-01	Requirements for non-disclosure or confidentiality agreements reflecting the organization's needs for the protection of data and operational details shall be identified, documented and reviewed at planned intervals.	データ保護や作業手順に対する組織のニーズを反映する守秘義務契約もしくは機密保持契約のための要求事項は、特定し、文書化し、あらかじめ定められた間隔でレビューすること。						X	X	X	X	X	X	X	X		ISO/IEC 27001:2005 Annex A.6.1.5	PL-4 PS-6 SA-9	NIST SP800-53 R3 PL-4 NIST SP800-53 R3 PS-6 NIST SP800-53 R3 SA-9 NIST SP800-53 R3 SA-9 (1)	12.8.2 12.8.3 12.8.4	C.2.5	12.5	Commandment #6 Commandment #7 Commandment #8 Commandment #9		
Legal - Third Party Agreements	LG-02	Third party agreements that directly, or indirectly, impact the organization's information assets or data are required to include explicit coverage of all relevant security requirements. This includes agreements involving processing, accessing, communicating, hosting or managing the organization's information assets, or adding or terminating services or products to existing information. Assets agreements provisions shall include security (e.g., encryption, access controls, and leakage prevention) and integrity controls for data exchanged to prevent improper disclosure, alteration or destruction.	組織の情報資産またはデータに直接的もしくは間接的に影響を及ぼす第三者との契約は、関連するすべてのセキュリティ要求事項を明示的に盛り上げること。これには、組織の情報資産の処理、アクセス、通信、ホスティングもしくは管理、又は既存の情報へのサービスは製造の追加あるいは等しいに変わる契約が含まれる。資産に関する契約には、取り扱われるデータの不適切な開示や改変、破壊を防止するために、セキュリティ(例えば、暗号化、アクセス制御、漏えい防止)や完全性の管理に関する条項を含むこと。		X	X	X	X	X	X	X	X	X	X	X	X	DS5.11	45 CFR 164.308 (a)(4)(ii)(A) 45 CFR 164.308 (b)(1) 45 CFR 164.308 (b)(2)(i) 45 CFR 164.308 (b)(2)(ii) 45 CFR 164.308 (b)(2)(iii) 45 CFR 164.308 (b)(3) 45 CFR 164.308 (b)(4) 45 CFR 164.312(a)(2)(i) 45 CFR 164.312 (c)(1) 45 CFR 164.312(a)(2)(ii) 45 CFR 164.314 (a)(1)(i) 45 CFR 164.314 (a)(1)(ii)(A) 45 CFR 164.314 (a)(1)(ii)(A) 45 CFR 164.314 (a)(2)(i) 45 CFR 164.314 (a)(2)(ii)(A) 45 CFR 164.314 (a)(2)(ii)(B) 45 CFR 164.314 (a)(2)(ii)(C) 45 CFR 164.314 (a)(2)(ii)(D) 45 CFR 164.314 (a)(2)(iii)(A) 45 CFR 164.314 (a)(2)(iii)(A)(1) 45 CFR 164.314 (a)(2)(iii)(A)(2) 45 CFR 164.314 (a)(2)(iii)(B) 45 CFR 164.314 (a)(2)(iii)(C) 45 CFR 164.314 (b)(1) 45 CFR 164.314 (b)(2) 45 CFR 164.314 (b)(2)(i) 45 CFR 164.314 (b)(2)(ii) 45 CFR 164.314 (b)(2)(iii) 45 CFR 164.314 (b)(2)(iv)	CA-3 MP-5 PS-7 SA-6 SA-7 SA-9	NIST SP800-53 R3 CA-3 NIST SP800-53 R3 MP-5 NIST SP800-53 R3 PS-6 (2) NIST SP800-53 R3 PS-5 (4) NIST SP800-53 R3 PS-7 NIST SP800-53 R3 SA-6 NIST SP800-53 R3 SA-7 NIST SP800-53 R3 SA-9 NIST SP800-53 R3 SA-9 (1)	2.4 12.8.2	C.2.4, C.2.6, G.4.1, G.16.3	C.2	12.5	Commandment #1 Commandment #4 Commandment #5 Commandment #6 Commandment #7 Commandment #8	
Operations Management - Policy	OP-01	Policies and procedures shall be established and made available for all personnel to adequately support services operations role.	サービスあるいは運用の役割を十分支援するために、方針や手順は、すべての従業員に対して作成され利用可能とすること。				X	X	X	X	X	X	X	X	X	X	DS13.1	Clause 5.1 A.8.1.1 A.8.2.1 A.8.2.2 A.10.1.1	CM-2 CM-3 CM-4 CM-5 CM-6 CM-9 MA-4 SA-3 SA-4 SA-5 SA-6 SA-10 SA-11 SA-12	NIST SP800-53 R3 CM-2 NIST SP800-53 R3 CM-2 (1) NIST SP800-53 R3 CM-2 (3) NIST SP800-53 R3 CM-2 (5) NIST SP800-53 R3 CM-3 NIST SP800-53 R3 CM-3 (2) NIST SP800-53 R3 CM-4 NIST SP800-53 R3 CM-5 NIST SP800-53 R3 CM-5 (1) NIST SP800-53 R3 CM-5 (5) NIST SP800-53 R3 CM-6 NIST SP800-53 R3 CM-6 (1) NIST SP800-53 R3 CM-6 (3) NIST SP800-53 R3 CM-9 NIST SP800-53 R3 MA-4 NIST SP800-53 R3 MA-4 (1) NIST SP800-53 R3 MA-4 (2) NIST SP800-53 R3 SA-3 NIST SP800-53 R3 SA-4 NIST SP800-53 R3 SA-4 (1) NIST SP800-53 R3 SA-4 (4) NIST SP800-53 R3 SA-4 (7) NIST SP800-53 R3 SA-5 NIST SP800-53 R3 SA-5 (1) NIST SP800-53 R3 SA-5 (5) NIST SP800-53 R3 SA-5 (3) NIST SP800-53 R3 SA-9 NIST SP800-53 R3 SA-10 NIST SP800-53 R3 SA-11 NIST SP800-53 R3 SA-11 (1) NIST SP800-53 R3 SA-12	12.1 12.2 12.3 12.4	G.1.1	8.2.1	Commandment #1 Commandment #2 Commandment #3 Commandment #6 Commandment #7		

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance							Corp Gov Relevanc e	Cloud Service Delivery Model Applicability			Scope Applicability														
				Phys	Network	Compute	Storage	App	Data	SaaS		PaaS	IaaS	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedrAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP					
Operations Management - Documentation	OP-02	Information system documentation (e.g., administrator and user guides, architecture diagrams, etc.) shall be made available to authorized personnel to ensure the following: • Configuring, installing, and operating the information system • Effectively using the system's security features	情報システム文書(例えば、管理者及び利用者ガイド、構成図などは、以下を確保を行うために、認可された従業員に対して利用可能とすること。 ・情報システムの設定、インストール、操作 ・システムのセキュリティ機能の効果的な利用		X	X	X	X	X	X	X	X	X	X	X	X	DS 9 DS 13.1	Clause 4.3.3 A.10.7.4	CP-9 CP-10 SA-5 SA-10 SA-11	NIST SP800-53 R3 CP-9 NIST SP800-53 R3 CP-9 (1) NIST SP800-53 R3 CP-9 (3) NIST SP800-53 R3 CP-10 NIST SP800-53 R3 CP-10 (2) NIST SP800-53 R3 CP-10 (3) NIST SP800-53 R3 SA-5 NIST SP800-53 R3 SA-5 (1) NIST SP800-53 R3 SA-5 (3) NIST SP800-53 R3 SA-10 NIST SP800-53 R3 SA-11 NIST SP800-53 R3 SA-11 (1)	12.1 12.2 12.3 12.4	G.1.1			12.6	Commandment #1 Commandment #2 Commandment #4 Commandment #5 Commandment #11	CIP-005-3a - R1.3 CIP-007-3 - R3		
Operations Management - Capacity / Resource Planning	OP-03	The availability, quality, and adequate capacity and resources shall be planned, prepared, and measured to deliver the required system performance in accordance with regulatory, contractual and business requirements. Projections of future capacity requirements shall be made to mitigate the risk of system overload.	規制、契約、事業上の要求事項に基づき、要求されたシステム性能を実現するために、可用性、品質、十分な容量や資源について計画、準備、測定を行うこと。また、システムの過負荷のリスクを低減するために、将来必要とする容量を予測すること。			X	X	X	X	X		X	X	X	X	X	DS 3		SA-4	NIST SP800-53 R3 SA-4 NIST SP800-53 R3 SA-4 (1) NIST SP800-53 R3 SA-4 (4) NIST SP800-53 R3 SA-4 (7)			G.5			12.4	Commandment #1 Commandment #2 Commandment #3		
Operations Management - Equipment Maintenance	OP-04	Policies and procedures shall be established for equipment maintenance ensuring continuity and availability of operations.	運用の継続性及び可用性を確保するための機器のメンテナンスのために、方針及び手順を確立すること。	X	X	X	X	X	X	X	X	X	X	X	X	X	A13.3	45 CFR 164.310 (a)(2)(iv)	A.9.2.4	MA-2 MA-3 MA-4 MA-5 MA-6	NIST SP800-53 R3 MA-2 NIST SP800-53 R3 MA-2 (1) NIST SP800-53 R3 MA-3 NIST SP800-53 R3 MA-3 (1) NIST SP800-53 R3 MA-3 (2) NIST SP800-53 R3 MA-3 (3) NIST SP800-53 R3 MA-4 NIST SP800-53 R3 MA-4 (1) NIST SP800-53 R3 MA-4 (2) NIST SP800-53 R3 MA-5 NIST SP800-53 R3 MA-6			F.2.19			5.2.3 8.2.2 8.2.3 8.2.4 8.2.5 8.2.6 8.2.7	Commandment #2 Commandment #5 Commandment #11	CIP-007-3 - R6.1 - R6.2 - R6.3 - R6.4
Risk Management - Program	RI-01	Organizations shall develop and maintain an enterprise risk management framework to manage risk to an acceptable level.	組織は、リスクを容許可能なレベルに抑えるための、事業リスク管理の枠組みを作成し、維持すること。	Proposed v1.1 control revision redacted until future revision due to potential mapping impact not yet considered.	X	X	X	X	X	X	X	X	X	X	X	X	PO 9.1	45 CFR 164.308 (a)(8) 45 CFR 164.308(a)(1)(ii)(B)	Clause 4.2.1 (c) through g) Clause 4.2.2 b) Clause 5.1 f) Clause 7.2 & 7.3 A.6.2.1 A.12.6.1 A.14.1.2 A.15.2.1 A.15.2.2	AC-4 CA-2 CA-6 PM-9 RA-1	NIST SP800-53 R3 AC-4 NIST SP800-53 R3 CA-2 (1) NIST SP800-53 R3 CA-6 NIST SP800-53 R3 PM-9 NIST SP800-53 R3 RA-1	12.1.2	A.1, L.1			12.4		CIP-009-3 - R4	
Risk Management - Assessments	RI-02	Aligned with the enterprise-wide framework, formal risk assessments shall be performed at least annually, or at planned intervals, determining the likelihood and impact of all identified risks, using qualitative and quantitative methods. The likelihood and impact associated with inherent and residual risk should be determined independently, considering all risk categories (e.g., audit results, threat and vulnerability analysis, and regulatory compliance).	事業全体の枠組みと連携し、公式のリスクアセスメントを少なくとも年に一回又はあらかじめ定めた間隔で実施し、特定したすべてのリスクの蓋然性や影響度を定量的、定量的手法を用いて測定すること。固有リスク及び残余リスクの蓋然性や影響度は、すべてのリスク分類(例えば、監査結果、脅威-脆弱性分析、法規制の順守など)を考慮し、独立して測定すること。	Proposed v1.1 control revision redacted until future revision due to potential mapping impact not yet considered.	X	X	X	X	X	X	X	X	X	X	X	X	PO 9.4	45 CFR 164.308 (a)(1)(ii)(A)	Clause 4.2.1 (c) through g) Clause 4.2.3 g) Clause 5.1 f) Clause 7.2 & 7.3 A.6.2.1 A.12.6.1 A.14.1.2 A.15.1.1 A.15.2.1 A.15.2.2	PL-5 RA-2 RA-3	NIST SP800-53 R3 PL-5 NIST SP800-53 R3 RA-2 NIST SP800-53 R3 RA-3	12.1.2	C.2.1, I.4.1, I.5, G.15.1.3, I.3	I.1 I.4		12.4 12.5		CIP-002-3 - R1.1 - R1.2 CIP-005-3a - R1 - R1.2 CIP-009-3 - R.1.1	
Risk Management - Mitigation / Acceptance	RI-03	Risks shall be mitigated to an acceptable level. Acceptance levels based on risk criteria shall be established and documented in accordance with reasonable resolution time frames and executive approval.	リスクは、容許可能なレベルに低減すること。リスク基準に基づく受容レベルは、妥当な決議の時間枠や経営陣の承認に従って確立し、文書化すること。		X	X	X	X	X	X	X	X	X	X	X	X	PO 9.5	45 CFR 164.308 (a)(1)(ii)(B)	Clause 4.2.1 (c) through g) Clause 4.2.2 b) Clause 4.3.1 Clause 5.1 f) Clause 7.3 A.6.2.1 A.12.6.2 A.12.6.1 A.15.1.1 A.15.2.1 A.15.2.2	CA-5 CM-4	NIST SP800-53 R3 CA-5 NIST SP800-53 R3 CM-4			I.3, L.9, L.10	I.4 L.2			CIP-009-3 - R1.2	
Risk Management - Business / Policy Change Impacts	RI-04	Risk assessment results shall include updates to security policies, procedures, standards and controls to ensure they remain relevant and effective.	リスクアセスメントの結果が適切かつ有効であり続けるように、リスクアセスメントの結果をセキュリティ基本方針、手順、標準、管理策に反映すること。		X	X	X	X	X	X	X	X	X	X	X	X	PO 9.6	Clause 4.2.3 Clause 4.2.4 Clause 4.3.1 Clause 5 Clause 7 A.5.1.2 A.10.1.2 A.10.2.3 A.14.1.2 A.15.2.1 A.15.2.2	CP-2 RA-2 RA-3	NIST SP800-53 R3 CP-2 NIST SP800-53 R3 CP-2 (1) NIST SP800-53 R3 CP-2 (2) NIST SP800-53 R3 RA-2 NIST SP800-53 R3 RA-3	12.1.3	B.1.1, B.1.2, B.1.6, B.1.7.2, G.2, L.9, L.10	B.2 G.21 L.2				CIP-009-3 - R2		
Risk Management - Third Party Access	RI-05	The identification, assessment, and prioritization of risks posed by business processes requiring third party access to the organization's information systems and data shall be followed by coordinated application of resources to minimize, monitor, and measure likelihood and impact of unauthorized or inappropriate access. Compensating controls derived from the risk analysis shall be implemented prior to provisioning access.	組織の情報システムやデータへの第三者のアクセスを要するビジネスプロセスによるリスクの特定、評価、優先順位づけを行った後に、許可されていない又は不適切なアクセスの蓋然性や影響度を測定、監視、最小化するための資源の配分調整を行うこと。アクセスを提供する前に、リスク分析から導き出された補償的管理策を実施すること。		X	X	X	X	X	X	X	X	X	X	X	X	DS 2.3	A.6.2.1 A.8.3.3 A.11.1.1 A.11.2.1 A.11.2.4	CA-3 MA-4 RA-3	NIST SP800-53 R3 CA-3 NIST SP800-53 R3 MA-4 NIST SP800-53 R3 MA-4 (1) NIST SP800-53 R3 MA-4 (2) NIST SP800-53 R3 RA-3	12.8.1 12.8.2 12.8.3 12.8.4	B.1.1, B.1.2, D.1.1, E.1, F.1.1, H.1.1, K.1.1, E.6.2, E.6.3	B.1 H.2		7.1.1 7.1.2 7.2.1 7.2.2 7.2.3 7.2.4				

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance							Corp Gov Relevance	Cloud Service Delivery Model Applicability			Supplier Relationship										Scope Applicability				
				Phys	Network	Compute	Storage	App	Data	SaaS		PaaS	IaaS	Cloud Provider	IaaS	PaaS	SaaS	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedRAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0	GAPP (Aug 2009)	Jericho Forum	NERC CIP	
																													COBIT 4.1
Resiliency - Impact Analysis	RS-02	There shall be a defined and documented method for determining the impact of any disruption to the organization which must incorporate the following: • Identify critical products and services • Identify all dependencies, including processes, applications, business partners and third party service providers • Understand threats to critical products and services • Determine impacts resulting from planned or unplanned disruptions and how these vary over time • Establish the maximum tolerable period for disruption • Establish priorities for recovery • Establish recovery time objectives for resumption of critical products and services within their maximum tolerable period of disruption • Estimate the resources required for resumption	あらゆる中断の影響を測定するための方法をあらかじめ検定し、文書化しておく。その方法には以下が含まなければならない。 ・重要な製品やサービスの特定 ・プロセス、アプリケーション、ビジネスパートナー、第三者のサービスプロバイダを含むすべての依存関係の特定 ・重要な製品やサービスへの脅威の認識 ・計画した中断又は計画外の中断に起因する影響、及びそうした中断が時間と共にどのように変化するかの測定 ・中断を許容しうる最長期間の設定 ・復旧の優先順位の設定 ・最長許容時間内にある重要な製品・サービスの再開に向けた復旧目標時間の設定 ・再開に向けた資源の見積もり	X	X	X	X	X	X	X	X	X	X	X	X		45 CFR 164.308 (a)(7)(ii)(E)	ISO/IEC 27001:2005 A.14.1.2 A.14.1.4	RA-3	NIST SP800-53 R3 RA-3		PCI DSS v2.0	K.2				Commandment #1 Commandment #2 Commandment #3	CIP-007-3 - R8 - R8.1 - R8.2 - R8.3	
Resiliency - Business Continuity Planning	RS-03	A consistent unified framework for business continuity planning and plan development shall be established, documented and adopted to ensure all business continuity plans are consistent in addressing priorities for testing and maintenance and information security requirements. Requirements for business continuity plans include the following: • Defined purpose and scope, aligned with relevant dependencies • Accessible to and understood by those who will use them • Owned by a named person(s) who is responsible for their review, update and approval • Defined lines of communication, roles and responsibilities • Detailed recovery procedures, manual work-around and reference information • Method for plan invocation	すべての事業継続計画が検査、保守および情報セキュリティの要求事項についての適合性と矛盾しないように、事業継続計画立案及び計画策定に関する一貫性のある統一的な枠組みを確立し、文書化し、採用すること。事業継続計画の要求事項には以下が含まれる。 ・あらゆる依存関係と連携した、目的及び範囲の設定 ・計画の想定利用者に理解され、利用できるようにすること ・計画のレビュー、更新、承認の責任を持つ指名された人による所持 ・伝達経路、役割及び責任の定義付け ・詳細な復旧手順、手動の回避策及び参考情報 ・計画発動の方法	X	X	X	X	X	X	X	X	X	X	X		45 CFR 164.308 (a)(7)(i) 45 CFR 164.308 (a)(7)(ii)(B) 45 CFR 164.308 (a)(7)(ii)(C) 45 CFR 164.308 (a)(7)(ii)(E) 45 CFR 164.310 (a)(2)(i) 45 CFR 164.312 (a)(2)(i)	Clause 5.1 A.6.1.2 A.14.1.3 A.14.1.4	CP-1 CP-2 CP-3 CP-4 CP-6 CP-7 CP-8 CP-9 CP-10 PE-17	NIST SP800-53 R3 CP-1 NIST SP800-53 R3 CP-2 NIST SP800-53 R3 CP-2 (1) NIST SP800-53 R3 CP-2 (2) NIST SP800-53 R3 CP-3 NIST SP800-53 R3 CP-4 NIST SP800-53 R3 CP-4 (1) NIST SP800-53 R3 CP-6 NIST SP800-53 R3 CP-6 (1) NIST SP800-53 R3 CP-6 (3) NIST SP800-53 R3 CP-7 NIST SP800-53 R3 CP-7 (1) NIST SP800-53 R3 CP-7 (2) NIST SP800-53 R3 CP-7 (3) NIST SP800-53 R3 CP-7 (5) NIST SP800-53 R3 CP-8 NIST SP800-53 R3 CP-8 (1) NIST SP800-53 R3 CP-8 (2) NIST SP800-53 R3 CP-9 NIST SP800-53 R3 CP-9 (1) NIST SP800-53 R3 CP-9 (3) NIST SP800-53 R3 CP-10 NIST SP800-53 R3 CP-10 (2) NIST SP800-53 R3 CP-10 (3) NIST SP800-53 R3 PE-17	12.9.1 12.9.3 12.9.4 12.9.6		K.1.2.3, K.1.2.4, K.1.2.5, K.1.2.6, K.1.2.7, K.1.2.11, K.1.2.13, K.1.2.15			Commandment #1 Commandment #2 Commandment #3				
Resiliency - Business Continuity Testing	RS-04	Business continuity plans shall be subject to test at planned intervals or upon significant organizational or environmental changes to ensure continuing effectiveness.	業務継続計画は、効果が続くことを保証するために、計画された間隔、もしくは組織的に重要なとき、もしくは、重要な組織および環境の変化に対してテストを受けなければならない。	X	X	X	X	X	X	X	X	X	X		45 CFR 164.308 (a)(7)(ii)(D)	A.14.1.5	CP-2 CP-3 CP-4	NIST SP800-53 R3 CP-2 NIST SP800-53 R3 CP-2 (1) NIST SP800-53 R3 CP-2 (2) NIST SP800-53 R3 CP-3 NIST SP800-53 R3 CP-4 NIST SP800-53 R3 CP-4 (1)	12.9.2		K.1.3, K.1.4.3, K.1.4.6, K.1.4.7, K.1.4.8, K.1.4.9, K.1.4.10, K.1.4.11, K.1.4.12			Commandment #1 Commandment #2 Commandment #3					
Resiliency - Environmental Risks	RS-05	Physical protection against damage from natural causes and disasters as well as deliberate attacks including fire, flood, atmospheric electrical discharge, solar induced geomagnetic storm, wind, earthquake, tsunami, explosion, nuclear mishap, volcanic activity, biological hazard, civil unrest, mudslide, tectonic activity, and other forms of natural or man-made disaster shall be anticipated, designed and countermeasures applied.	自然損害や災害はもちろん、火事、洪水、大気中の放射、大気中に誘発された地磁気嵐、雷、地震、津波、爆発、原子力事故、火山活動、ハイオクハザード、暴動、土砂崩れ、地殻変動活動、および他の自然的原因からの損害と被害防止といった事業からのダメージに対する物理的な保護を予測し、設計し、対策を講じなければならない。	X						X	X	X	X		45 CFR 164.308 (a)(7)(i) 45 CFR 164.310(a)(2)(i)	A.9.1.4 A.9.2.1	PE-1 PE-5 PE-13 PE-14 PE-15 PE-18	NIST SP800-53 R3 PE-1 NIST SP800-53 R3 PE-13 NIST SP800-53 R3 PE-13 (1) NIST SP800-53 R3 PE-13 (2) NIST SP800-53 R3 PE-13 (3) NIST SP800-53 R3 PE-14 NIST SP800-53 R3 PE-14 (1) NIST SP800-53 R3 PE-15 NIST SP800-53 R3 PE-18	F.2.9, F.1.2.21, F.5.1, F.1.5.2, F.1	8.2.4	F.2.9, F.1.2.21, F.5.1, F.1.5.2, F.1		Commandment #1 Commandment #2 Commandment #3	CIP-004-3 R3.2					
Resiliency - Equipment Location	RS-06	To reduce the risks from environmental threats, hazards and opportunities for unauthorized access equipment shall be located away from locations subject to high probability environmental risks and supplemented by redundant equipment located a reasonable distance.	装置は、環境上の脅威および災害からのリスクならびに認可されていないアクセスの機会を低減させるために、環境上のリスクが顕著で存在するところからは遠ざけ、また、適切な距離に位置した余剰設備によって補われなければならない。	X						X	X	X	X		45 CFR 164.310 (c)	A.9.2.1	PE-1 PE-5 PE-14 PE-15 PE-18	NIST SP800-53 R3 PE-1 NIST SP800-53 R3 PE-5 NIST SP800-53 R3 PE-14 NIST SP800-53 R3 PE-14 (1) NIST SP800-53 R3 PE-15 NIST SP800-53 R3 PE-18	9.1.3 9.5 9.6 9.9 9.9.1		F.2.9, F.1.2.21, F.5.1, F.1.5.2, F.1		Commandment #1 Commandment #2 Commandment #3						
Resiliency - Equipment Power Failures	RS-07	Security mechanisms and redundancies shall be implemented to protect equipment from utility service outages (e.g., power failures, network disruptions, etc.).	セキュリティ対策と冗長化は、ユーティリティサービスの供給停止(例えば、停電、ネットワーク停止など)から設備を保護するように実装されなければならない。	X	X	X					X	X	X		A.9.2.2 A.9.2.3 A.9.2.4	A.9.2.2 A.9.2.3 A.9.2.4	CP-8 PE-1 PE-9 PE-10 PE-11 PE-12 PE-13 PE-14	NIST SP800-53 R3 CP-8 NIST SP800-53 R3 CP-8 (1) NIST SP800-53 R3 CP-8 (2) NIST SP800-53 R3 PE-1 NIST SP800-53 R3 PE-9 NIST SP800-53 R3 PE-10 NIST SP800-53 R3 PE-11 NIST SP800-53 R3 PE-11 (1) NIST SP800-53 R3 PE-12 NIST SP800-53 R3 PE-13 NIST SP800-53 R3 PE-13 (1) NIST SP800-53 R3 PE-13 (2) NIST SP800-53 R3 PE-13 (3) NIST SP800-53 R3 PE-14 NIST SP800-53 R3 PE-14 (1)	F.1.6, F.1.6.1, F.1.6.2, F.1.9.2, F.1		F.1.6, F.1.6.1, F.1.6.2, F.1.9.2, F.1		Commandment #1 Commandment #2 Commandment #3						
Resiliency - Power / Telecommunications	RS-08	Telecommunications equipment, cabling and relays transceiving data or supporting services shall be protected from interception or damage and designed with redundancies, alternative power source and alternative routing.	データを伝送する、または支援サービスをサポートするケーブル、およびリレー等の通信機器は、傍受または検閲から保護され、代替電力、および代替ルーティングで冗長性を持って設計されなければならない。 Telecommunications equipment, cabling and relays transceiving data or supporting services shall be protected from interception unless legally required (wire taps, etc.). These systems shall be designed with redundancies, alternative power source and alternative routing. Tenants shall have informed consent over jurisdiction of transport. 通信設備、ケーブル、データ転送、および支援サービスは、法的に必要とされない(盗聴など)限り、傍受されないように保護されている事。これらのシステムは冗長化され、代替電源および代替ルーティングを考慮し設計されている事。テナントは、管轄変更に対して告知され同意する事。	X	X						X	X	X		A.9.2.2 A.9.2.3	A.9.2.2 A.9.2.3	PE-1 PE-4 PE-13	NIST SP800-53 R3 PE-1 NIST SP800-53 R3 PE-4 NIST SP800-53 R3 PE-13 NIST SP800-53 R3 PE-13 (1) NIST SP800-53 R3 PE-13 (2) NIST SP800-53 R3 PE-13 (3)	F.1.6, F.1.6.1, F.1.6.2, F.1.9.2, F.1		F.1.6, F.1.6.1, F.1.6.2, F.1.9.2, F.1		Commandment #1 Commandment #2 Commandment #3 Commandment #4 Commandment #9 Commandment #11						
Security Architecture - Customer Access Requirements	SA-01	Prior to granting customers access to data, assets and information systems, all identified security, contractual and regulatory requirements for customer access shall be addressed and remediated.	データ、資産、情報システムへのアクセスを顧客に許可する前に、顧客アクセスに関する特定されたすべてのセキュリティ、契約、規定要求事項を記述、修正しなければならない。	X	X	X	X	X	X	X	X	X	X		A.6.2.1 A.6.2.2 A.11.1.1	A.6.2.1 A.6.2.2 A.11.1.1	CA-1 CA-2 CA-5 CA-6	NIST SP800-53 R3 CA-1 NIST SP800-53 R3 CA-2 NIST SP800-53 R3 CA-2 (1) NIST SP800-53 R3 CA-5 NIST SP800-53 R3 CA-6	C.2.1, C.2.3, C.2.4, C.2.6.1, H.1	1.2.2 1.2.6 6.2.1 6.2.2		C.2.1, C.2.3, C.2.4, C.2.6.1, H.1		Commandment #6 Commandment #7 Commandment #8					

Cloud Controls Matrix (CCM) R1.2

Table with columns: Control Area, Control ID, Control Specification, Control Notes, Architectural Relevance (Phys, Network, Compute, Storage, App, Data), Corp Gov Relevanc e, Cloud Service Delivery Model Applicability (SaaS, PaaS, IaaS), Supplier Relationship, Scope Applicability (COBIT 4.1, HIPAA / HITECH Act, ISO/IEC 27001-2005, NIST SP800-53 R3, FedRAMP, PCI DSS v2.0, BITS Shared Assessments SIG v5.0, BITS Shared Assessments AUP v5.0, GAPP (Aug 2009), Jericho Forum, NERC CIP).

Cloud Controls Matrix (CCM) R1.2

Control Area	Control ID	Control Specification	Control Notes	Architectural Relevance						Corp Gov Relevance	Cloud Service Delivery Model Applicability			Supplier Relationship			Scope Applicability							
				Phys	Network	Compute	Storage	App	Data		SaaS	PaaS	IaaS	Cloud Provid	Hybrid Contas	Multi- Cloud	COBIT 4.1	HIPAA / HITECH Act	ISO/IEC 27001-2005	NIST SP800-53 R3	FedRAMP	PCI DSS v2.0	BITS Shared Assessments SIG v6.0	BITS Shared Assessments AUP v5.0

Copyright © 2011 Cloud Security Alliance. All rights reserved. You may download, store, display on your computer, view, print, and link to the Cloud Security Alliance "Cloud Controls Matrix (CCM)" at <http://www.cloudsecurityalliance.org> subject to the following: (a) the Cloud Controls Matrix may be used solely for your personal, informational, non-commercial use; (b) the Cloud Controls Matrix may not be modified or altered in any way; (c) the Cloud Controls Matrix may not be redistributed; and (d) the trademark, copyright or other notices may not be removed. You may quote portions of the Cloud Controls Matrix as permitted by the Fair Use provisions of the United States Copyright Act, provided that you attribute the portions to the Cloud Security Alliance Cloud Controls Matrix Version 1.2 (2011). If you are interested in obtaining a license to this material for other usages not addresses in the

QA by the HISPI
08/20/1011