

CONSENSUS ASSESSMENTS INITIATIVE QUESTIONNAIRE v3.1

Control Domain	Control ID	Question ID	Control Specification	Consensus Assessment Questions	Consens	Consensus Assessment Answers		Notes
					Yes	No	Not Applicable	
	AIS-01	AIS-01.1	Applications and programming interfaces (APIs) shall be designed, developed, deployed, and tested in accordance with leading industry standards (e.g., OWASP for web applications) and adhere to applicable	Do you use industry standards (i.e. OWASP Software Assurance Maturity Model, ISO 27034) to build in security for your Systems/Software Development Lifecycle (SDLC)?	x			
		AIS-01.2	legal, statutory, or regulatory compliance obligations.	Do you use an automated source code analysis tool to detect security defects in code prior to production?	x			
		AIS-01.3		Do you use manual source-code analysis to detect security defects in code prior to production?	х			
		AIS-01.4		Do you verify that all of your software suppliers adhere to industry standards for Systems/Software Development Lifecycle (SDLC) security?			х	
		AIS-01.5		(SaaS only) Do you review your applications for security vulnerabilities and address any issues prior to deployment to production?	×			
	AIS-02	AIS-02.1	Prior to granting customers access to data, assets, and information systems, identified security, contractual, and regulatory requirements for customer access shall be addressed.	Are all identified security, contractual, and regulatory requirements for customer access contractually addressed and remediated prior to granting customers access to data, assets, and information systems?	х			
		AIS- 02.2		Are all requirements and trust levels for customers' access defined and documented?	х			
	AIS-03	AIS-03.1 AIS-03.2	Data input and output integrity routines (i.e., reconciliation and edit checks) shall be implemented for application interfaces and databases	Does your data management policies and procedures require audits to verify data input and output integrity routines? Are data input and output integrity routines (i.e. MD5/SHA checksums) implemented for application interfaces and databases	х			
	AIS-04	AIS-03.2	or misuse. Policies and procedures shall be established and maintained in	to prevent manual or systematic processing errors or corruption of data?	x			
	A15-U4	AI3-U4.1	rollices and procedures shall be established arb maintained in support of data security to include (confidentiality, integrity, and availability) across multiple system interfaces, urisdictions, and business functions to prevent improper disclosure, alternation, or destruction.	Is your Data Security Architecture designed using an industry standard (e.g., CDSA, MULITSAFE, CSA Trusted Cloud Architectural Standard, FedRAMP, CAESARS)?	×			
	AAC-01		Audit plans shall be developed and maintained to address business process disruptions. Auditing plans shall focus on reviewing the	Do you develop and maintain an agreed upon audit plan (e.g., scope, objective, frequency, resources,etc.) for reviewing the efficiency and effectiveness of implemented security controls?	x			
Audit Assurance & Compliance Audit		AAC-01.2	effectiveness of the implementation of security operations. All audit activities must be agreed upon prior to executing any audits.	Does your audit program take into account effectiveness of implementation of security operations?	х			
	AAC-02	AAC-02.1	Independent reviews and assessments shall be performed at least	Do you allow tenants to view your SOC2/ISO 27001 or similar third-party audit or certification reports?	х			
		AAC-02.2	annually to ensure that the organization addresses nonconformities of established policies, standards, procedures, and compliance	Do you conduct network penetration tests of your cloud service infrastructure at least annually?	х			
		AAC-02.3	obligations.	Do you conduct application penetration tests of your cloud infrastructure regularly as prescribed by industry best practices and guidance?	x			
		AAC-02.4		Do you conduct internal audits at least annually?	х			
		AAC-02.5		Do you conduct independent audits at least annually?	x			
		AAC-02.6		Are the results of the penetration tests available to tenants at their request?	х			
Audit Assurance & ComplianceIndepe		AAC-02.7		Are the results of internal and external audits available to tenants at their request?	х			
Audit Assurance & ComplianceInform	AAC-03	AAC-03.1	Organizations shall create and maintain a control framework which captures standards, regulatory, legal, and statutory requirements relevant for their business needs. The control framework shall be reviewed at least annually to ensure changes that could affect the business processes are reflected.	Do you have a program in place that includes the ability to monitor changes to the regulatory requirements in relevant jurisdictions, adjust your security program for changes to legal requirements, and ensure compliance with relevant regulatory requirements?	х			
	BCR-01	BCR-01.1	A consistent unified framework for business continuity planning and plan development shall be established, documented, and adopted to	Does your organization have a plan or framework for business continuity management or disaster recovery management?	х			
		BCR-01.2	ensure all business continuity plans are consistent in addressing priorities for testing, maintenance, and information security	Do you have more than one provider for each service you depend on?	×			
		BCR-01.3	requirements. Requirements for business continuity plans include the following:	Do you provide a disaster recovery capability?	x			
		BCR-01.4	Defined purpose and scope, aligned with relevant dependencies Accessible to and understood by those who will use them	Do you monitor service continuity with upstream providers in the event of provider failure?	x			
		BCR-01.5 BCR-01.6	Owned by a named person(s) who is responsible for their review, update, and approval	Do you provide access to operational redundancy reports, including the services you rely on?	×			
		BCR-01.6 BCR-01.7	Defined lines of communication, roles, and responsibilities Detailed recovery procedures, manual work-around, and reference information	Do you provide a tenant-triggered fallover option?		X		
		BCN-01.7	Method for plan invocation	Do you share your business continuity and redundancy plans with your tenants?		*		

	BCR-02	BCR-02.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted customers (tenant) and other business relationships that represent critical intra-supply chain business process dependencies.	Are business continuity plans subject to testing at planned intervals or upon significant organizational or environmental changes to ensure continuing effectiveness?	х		
	BCR-03	BCR-03.1	Data center utilities services and environmental conditions (e.g., water, power, temperature and humidity controls,	Does your organization adhere to any international or industry standards when it comes to securing, monitoring, maintaining and testing of datacenter utilities services and environmental conditions?	х		
		BCR-03.2	telecommunications, and internet connectivity) shall be secured, monitored, maintained, and tested for continual effectiveness at planned intervals to ensure protection from unauthorized interveption or damage, and designed with automated fail-over or other redundancies in the event of planned or unplanned disruptions.	Has your organization implemented environmental controls, fail-over mechanisms or other redundancies to secure utility services and mitigate environmental conditions?	х		
Business Continuity Management & Operational Resilience Documentation	BCR-04	BCR-04.1	Information system documentation (e.g., administrator and user guides, and architecture diagrams) 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	Are information system documents (e.g., administrator and user guides, architecture diagrams, etc.) made available to authorized personnel to ensure configuration, installation and operation of the information system?	х		
	BCR-05	BCR-05.1	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 accident, volcanic activity, biological hazard, civil unrest, mudslide, tectonic activity, and other forms of natural or man-made disaster shall be anticipated, designed, and have countermeasures applied.	Is physical damage anticipated and are countermeasures included in the design of physical protections?	х		
	BCR-06	BCR-06.1	To reduce the risks from environmental threats, hazards, and opportunities for unauthorized access, equipment shall be kept away from locations subject to high probability environmental risks and supplemented by redundant equipment located at a reasonable distance.	Are any of your data centers located in places that have a high probability/occurrence of high-impact environmental risks (floods, tornadoes, earthquakes, hurricanes, etc.)?		х	
	BCR-07	BCR-07.1	Policies and procedures shall be established, and supporting business	Do you have documented policies, procedures and supporting business processes for equipment and datacenter maintenance?	х		
		BCR-07.2	processes and technical measures implemented, for equipment	Do you have an equipment and datacenter maintenance routine or plan?	х		
	BCR-08	BCR-08.1	Protection measures shall be put into place to react to natural and man-made threats based upon a geographically-specific business impact assessment.	Are security mechanisms and redundancies implemented to protect equipment from utility service outages (e.g., power failures, network disruptions, etc.)?	х		
	BCR-09	BCR-09.1	There shall be a defined and documented method for determining the impact of any disruption to the organization (cloud provider, cloud consumer) that 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 • Understand impacts resulting from planned or unplanned disruption	Do you use industry standards and frameworks to determine the impact of any disruption to your organization (i.e. criticality of services and recovery priorities, disruption tolerance, RPO and RTO etc)?		х	
		BCR-09.2	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	Does your organization conduct impact analysis pertaining to possible disruptions to the cloud service?		х	
	BCR-10	BCR-10.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, for appropriate IT governance and service management to ensure appropriate planning, delivery and support of the organization's IT capabilities supporting business functions, workforce, and/or customers based on industry acceptable standards (i.e., ITIL v4 and COBIT 5). Additionally, policies and procedures shall include defined roles and responsibilities supported by regular workforce training.		х		
i	BCR-11	BCR-11.1	Policies and procedures shall be established, and supporting business	Do you have technical capabilities to enforce tenant data retention policies?	x		
		BCR-11.2	processes and technical measures implemented, for defining and adhering to the retention period of any critical asset as per	Do you have documented policies and procedures demonstrating adherence to data retention periods as per legal, statutory or regulatory compliance requirements?	x		
		BCR-11.3	established policies and procedures, as well as applicable legal, statutory, or regulatory compliance obligations. Backup and recovery	Have you implemented backup or recovery mechanisms to ensure compliance with regulatory, statutory, contractual or	х		
		BCR-11.4	measures shall be incorporated as part of business continuity planning and tested accordingly for effectiveness.		х		
		BCR-11.5		If using virtual infrastructure, do you provide tenants with a capability to restore a virtual machine to a previous configuration?	x		
		BCR-11.6		Does your cloud solution include software/provider independent restore and recovery capabilities?	x		
		BCR-11.7		Do you test your backup or redundancy mechanisms at least annually?	х		

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	CCC-01		Policies and procedures shall be established, and supporting business processes and technical measures implemented, to ensure the development and/or acquisition of new data, physical or virtual applications, infrastructure network and systems components, or any	Are policies and procedures established for management authorization for development or acquisition of new applications,	x			
			applications, ilmastructure network and systems components, or any corporate, operations and/or data center facilities have been pre- authorized by the organization's business leadership or other accountable business role or function.	systems, databases, infrastructure, services, operations and facilities?				
	CCC-02	CCC-02.1	External business partners shall adhere to the same policies and	Are policies and procedures for change management, release, and testing adequately communicated to external business	х			
		CCC-02.2	procedures for change management, release, and testing as internal developers within the organization (e.g., ITIL service management	Are policies and procedures adequately enforced to ensure external business partners comply with change management requirements?	х			
	CCC-03	CCC-03.1	Organizations shall follow a defined quality change control and testing			x		
	-	CCC-03.2	process (e.g., ITIL Service Management) with established baselines, testing, and release standards which focus on system availability,	Is documentation describing known issues with certain products/services available?	x			
		CCC-03.3	confidentiality, and integrity of systems and services.	Are there policies and procedures in place to triage and remedy reported bugs and security vulnerabilities for product and service offerings?	х			
		CCC-03.4		Do you have controls in place to ensure that standards of quality are being met for all software development?	х			
		CCC-03.5		Do you have controls in place to detect source code security defects for any outsourced software development activities?			х	
				Are mechanisms in place to ensure that all debugging and test code elements are removed from released software versions?	x			
	CCC-04	CCC-04.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, to restrict the		х			
			installation of unauthorized software on organizationally-owned or managed user end-point devices (e.g., issued workstations, laptops, and mobile devices) and IT infrastructure network and systems components.	Do you have controls in place to restrict and monitor the installation of unauthorized software onto your systems?				
	CCC-05	CCC-05.1	Policies and procedures shall be established for managing the risks associated with applying changes to:	Do you provide tenants with documentation that describes your production change management procedures and their roles/rights/responsibilities within it?	х			
		CCC-05.2	Business-critical or customer (tenant)-impacting (physical and virtual) applications and system-system interface (API) designs and	Do you have policies and procedures established for managing risks with respect to change management in production environments?	х			
		CCC-0.5.3	configurations. Infrastructure network and systems components. Technical measures shall be implemented to provide assurance that all changes directly correspond to a registered change request,	Do you have technical measures in place to ensure that changes in production environments are registered, authorized and in adherence with existing SLAs?	х			
	DSI-01	DSI-01.1	Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to	Do you provide a capability to identify data and virtual machines via policy tags/metadata (e.g., tags can be used to limit guest operating systems from booting/instantiating/transporting data in the wrong country)?			х	
,		DSI-01.2	the organization.	Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)?			х	
	DSI-02	DSI-02.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, to inventory, document, and maintain data flows for data that is resident	Do you inventory, document, and maintain data flows for data that is resident (permanent or temporary) within the services' applications and infrastructure network and systems?	х			
	DCI 02	DSI-02.2		Can you ensure that data does not migrate beyond a defined geographical residency?	X			
	DSI-03	DSI-03.1	Data related to electronic commerce (e-commerce) that traverses public networks shall be appropriately classified and protected from fraudulent activity, unauthorized disclosure, or modification in such a	Do you provide standardized (e.g. ISO/IEC) non-proprietary encryption algorithms (3DES, AES, etc.) to tenants in order for them to protect their data if it is required to move through public networks (e.g., the Internet)?	х			
		DSI-03.2	manner to prevent contract dispute and compromise of data.	Do you utilize open encryption methodologies any time your infrastructure components need to communicate with each other via public networks (e.g., Internet-based replication of data from one environment to another)?	х			
	DSI-04	DSI-04.1	the security of data and objects which contain data. Mechanisms for	Are policies and procedures established for data labeling and handling in order to ensure the security of data and objects that contain data?	х			
		DSI-04.2	label inheritance shall be implemented for objects that act as aggregate containers for data.	Do you follow a structured data-labeling standard (e.g., ISO 15489, Oasis XML Catalog Specification, CSA data type guidance)?		x		
		DSI-04.3		Are mechanisms for label inheritance implemented for objects that act as aggregate containers for data?		х		
	DSI-05	DSI-05.1	Production data shall not be replicated or used in non-production environments. Any use of customer data in non-production environments requires explicit, documented approval from all customers whose data is affected, and must comply with all legal and regulatory requirements for scrubbing of sensitive data elements.	Do you have procedures in place to ensure production data shall not be replicated or used in non-production environments?	х			
	DSI-06	DSI-06.1	All data shall be designated with stewardship, with assigned responsibilities defined, documented, and communicated.	Are the responsibilities regarding data stewardship defined, assigned, documented, and communicated?	х			
	DSI-07	DSI-07.1	Policies and procedures shall be established with supporting business processes and technical measures implemented for the secure disposal and complete removal of data from all storage media, ensuring data is not recoverable by any computer forensic means.	Do you support the secure deletion (e.g., degaussing/cryptographic wiping) of archived and backed-up data?		х		
		DSI-07.2		Can you provide a published procedure for exiting the service arrangement, including assurance to sanitize all computing resources of tenant data once a customer has exited your environment or has vacated a resource?		х		
	DCS-01	DCS-01.1	Assets must be classified in terms of business criticality, service-level	Do you classify your assets in terms of business criticality, service-level expectations, and operational continuity requirements?	х			
		DCS-01.2	expectations, and operational continuity requirements. A complete inventory of business-critical assets located at all sites and/or	Do you maintain a complete inventory of all of your critical assets located at all sites/ or geographical locations and their assigned ownership?	x			
	DCS-02	DCS-02.1	Physical security perimeters (e.g., fences, walls, barriers, guards, gates, electronic surveillance, physical authentication mechanisms,	Are physical security perimeters (e.g., fences, walls, barriers, guards, gates, electronic surveillance, physical authentication mechanisms, reception desks, and security patrols) implemented for all areas housing sensitive data and information	×			
	DCS-03	DCS-03.1	Automated equipment identification shall be used as a method of	systems? Do you have a capability to use system geographic location as an authentication factor?	.,		x	
		DCS-03.2	connection authentication. Location-aware technologies may be used to validate connection authentication integrity based on known	Is automated equipment identification used as a method to validate connection authentication integrity based on known equipment location?	x			
	DCS-04	DCS-04.1	Authorization must be obtained prior to relocation or transfer of hardware, software, or data to an offsite premises.	Is authorization obtained prior to relocation or transfer of hardware, software, or data to an offsite premises?	^			
			naruware, sortware, or data to an orisite premises.	to additionation obtained prior to rotocation of iteration of naturality, software, or data to an orisite prefitses:	x			

	DCS-05	DCS-05.1	Policies and procedures shall be established for the secure disposal of equipment (by asset type) used outside the organization's premise. This shall include a wiping solution or destruction process that render recovery of information impossible. The erasure shall consist of a full write of the drive to ensure that the erased drive is released to inventory for reuse and deployment or securely stored until it can be destroyed.	s Can you provide tenants with your asset management policies and procedures?			
	DCS-06	DCS-06.1	Policies and procedures shall be established, and supporting business		х		
		DCS-06.2	processes implemented, for maintaining a safe and secure working environment in offices, rooms, facilities, and secure areas storing sensitive information.	working environment in offices, rooms, facilities, and secure areas? Can you provide evidence that your personnel and involved third parties have been trained regarding your documented	x		
	DCS-07	DCS-07.1		policies, standards, and procedures? Are physical access control mechanisms (e.g. CCTV cameras, ID cards, checkpoints) in place to secure, constrain and monitor earess and incress points?	X		
			personnel are allowed access.	egress and ingress points?	х		
	DCS-08	DCS-08.1	Ingress and egress points such as service areas and other points wher 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.	Are ingress and egress points, such as service areas and other points where unauthorized personnel may enter the premises	x		
	DCS-09	DCS-09.1	Physical access to information assets and functions by users and support personnel shall be restricted.	Do you restrict physical access to information assets and functions by users and support personnel?	x		
	EKM-01	EKM-01.1	Keys must have identifiable owners (binding keys to identities) and there shall be key management policies.	Do you have key management policies binding keys to identifiable owners?	x		
	EKM-02	EKM-02.1	Policies and procedures shall be established for the management of	Do you have a capability to allow creation of unique encryption keys per tenant?	х		
		EKM-02.2	cryptographic keys in the service's cryptosystem (e.g., lifecycle management from key generation to revocation and replacement,	Do you have a capability to manage encryption keys on behalf of tenants?	х		
		EKM-02.3	public key infrastructure, cryptographic protocol design and	Do you maintain key management procedures? Do you have documented ownership for each stage of the lifecycle of encryption keys?	x x		
		FKM-02.4	algorithms used, access controls in place for secure key generation,	Do you utilize any third party/open source/proprietary frameworks to manage encryption keys?	x		
	EKM-03	EKM-03.1	Policies and procedures shall be established, and supporting business		x		
		EKM-03.2	processes and technical measures implemented, for the use of	Do you leverage encryption to protect data and virtual machine images during transport across and between networks and			
			encryption protocols for protection of sensitive data in storage (e.g.,	hypervisor instances?	х		
		EKM-03.3	file servers, databases, and end-user workstations) and data in transmission (e.g., system interfaces, over public networks, and	Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines?	x		
	EKM-04	EKM-04.1	Platform and data appropriate encryption (e.g., AES-256) in	Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms?	х		
		EKM-04.2	open/validated formats and standard algorithms shall be required. Keys shall not be stored in the cloud (i.e. at the cloud provider in	Are your encryption keys maintained by the cloud consumer or a trusted key management provider?		x	
		EKM-04.3	question), but maintained by the cloud consumer or trusted key	Do you store encryption keys in the cloud?	х		
	GRM-01	EKM-04.4 GRM-01.1	Baseline security requirements shall be established for developed or	Do you have separate key management and key usage duties?		х	
	GKIVI-01	GRIVI-01.1	acquired, organizationally-owned or managed, physical or virtual,	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?			
		GRM-01.2	applications and infrastructure system, and network components tha				
			comply with applicable legal, statutory, and regulatory compliance obligations. Deviations from standard baseline configurations must be authorized following change management policies and procedures	Do you have the capability to continuously monitor and report the compliance of your infrastructure against your information security baselines?	×		
	GRM-02	GRM-02.1		Does your organization's risk assessments take into account awareness of data residency, legal and statutory requirements for retention periods and data protection and classification?	×		
		GRM-02.2	Awareness of where sensitive data is stored and transmitted across	Do you conduct risk assessments associated with data governance requirements at least once a year?	х		
	GRM-03	GRM-03.1	Managers are responsible for maintaining awareness of, and complying with, security policies, procedures, and standards that are relevant to their area of responsibility.	Are your technical, business, and executive managers responsible for maintaining awareness of and compliance with security policies, procedures, and standards for both themselves and their employees as they pertain to the manager and employees' area of responsibility?			
	GRM-04	GRM-04.1	An Information Security Management Program (ISMP) shall be	Do you provide tenants with documentation describing your Information Security Management Program (ISMP)?	×		
		GRM-04.2	developed, documented, approved, and implemented that includes	Do you review your Information Security Management Program (ISMP) at least once a year?	x		
	GRM-05	GRM-05.1	Executive and line management shall take formal action to support information security through clearly-documented direction and commitment, and shall ensure the action has been assigned.	Do executive and line management take formal action to support information security through clearly-documented direction and commitment, and ensure the action has been assigned?	x		
	GRM-06	GRM-06.1	information security policies and procedures shall be established and made readily available for review by all impacted personnel and external business relationships. Information security policies must be authorized by the organization's business leadership (or other	authorized by accountable business role/function and supported by the information security management program as per	x		
		GRM-06.2	accountable business role or function) and supported by a strategic business plan and an information security management program inclusive of defined information security roles and responsibilities for	Are information security policies authorized by the organization's business leadership (or other accountable business role or function) and supported by a strategic business plan and an information security management program inclusive of defined information security roles and responsibilities for business leadership?	×		
		GRM-06.3	business leadership.	Do you have agreements to ensure your providers adhere to your information security and privacy policies?	×		
		GRM-06.4		Can you provide evidence of due diligence mapping of your controls, architecture, and processes to regulations and/or standards?	x		
,		GRM-06.5		Do you disclose which controls, standards, certifications, and/or regulations you comply with?	х		
	GRM-07	GRM-07.1	A formal disciplinary or sanction policy shall be established for	Is a formal disciplinary or sanction policy established for employees who have violated security policies and procedures?	х		
		GRM-07.2	employees who have violated security policies and procedures.	Are employees made aware of what actions could be taken in the event of a violation via their policies and procedures?	х		
	GRM-08	GRM-08.1	Risk assessment results shall include updates to security policies, procedures, standards, and controls to ensure that they remain relevant and effective.	Do risk assessment results include updates to security policies, procedures, standards, and controls to ensure they remain relevant and effective?	×		
	GRM-09	GRM-09.1		Do you notify your tenants when you make material changes to your information security and/or privacy policies?	×		
,		GRM-09.2	role or function) shall review the information security policy at	Do you perform, at minimum, annual reviews to your privacy and security policies?	x		

	GRM-10	GRM-10.1	Aligned with the enterprise-wide framework, formal risk assessments shall be performed at least annually or at planned intervals, (and in	Are formal risk assessments aligned with the enterprise-wide framework and performed at least annually, or at planned				
		GRM-10.2	conjunction with any changes to information systems) to determine	intervals, determining the likelihood and impact of all identified risks, using qualitative and quantitative methods? Is the likelihood and impact associated with inherent and residual risk determined independently, considering all risk	х			
		GKW-10.2	the likelihood and impact of all identified risks using qualitative and	as the likelinood and impact associated with innerent and residual risk determined independently, considering all risk categories?	x			
	GRM-11	GRM-11.1	Risks shall be mitigated to an acceptable level. Acceptance levels	Do you have a documented, organization-wide program in place to manage risk?	x			
		GRM-11.2	based on risk criteria shall be established and documented in	Do you make available documentation of your organization-wide risk management program?	x			
	HRS-01		Upon termination of workforce personnel and/or expiration of external business relationships, all organizationally-owned assets shal	Upon termination of contract or business relationship, are employees and business partners adequately informed of their				
	-	HRS-01.2	be returned within an established period.	Do you have asset returning organizationally-owned assets should be returned within an established period?	X X			
	HRS-02	HRS-01.2	Pursuant to local laws, regulations, ethics, and contractual constraints		^			
			all employment candidates, contractors, and third parties shall be	Pursuant to local laws, regulations, ethics, and contractual constraints, are all employment candidates, contractors, and				
			subject to background verification proportional to the data classification to be accessed, the business requirements, and	involved third parties subject to background verification?				
ļ			acceptable risk.		x			
	HRS-03	HRS-03.1	Employment agreements shall incorporate provisions and/or terms	Do your employment agreements incorporate provisions and/or terms in adherence to established information governance and				
			for adherence to established information governance and security policies and must be signed by newly hired or on-boarded workforce	security policies?				
			personnel (e.g., full or part-time employee or contingent staff) prior t		x			
		HRS-03.2	granting workforce personnel user access to corporate facilities,	Do you require that employment agreements are signed by newly hired or on-boarded workforce personnel prior to granting				
	HRS-04	HRS-04.1	resources, and assets. Roles and responsibilities for performing employment termination or	workforce personnel user access to corporate facilities, resources, and assets? Are documented policies, procedures, and guidelines in place to govern change in employment and/or termination?	X X			
	1113-04	HRS-04.2	change in employment procedures shall be assigned, documented,	Do the above procedures and guidelines account for timely revocation of access and return of assets?	x			
	HRS-05	HRS-05.1	Policies and procedures shall be established, and supporting business					
			processes and technical measures implemented, to manage business					
			risks associated with permitting mobile device access to corporate resources and may require the implementation of higher assurance	Are policies and procedures established and measures implemented to strictly limit access to your sensitive data and tenant				
			compensating controls and acceptable-use policies and procedures	data from portable and mobile devices (e.g., laptops, cell phones, and personal digital assistants (PDAs)), which are generally higher-risk than non-portable devices (e.g., desktop computers at the provider organization's facilities)?				
			(e.g., mandated security training, stronger identity, entitlement and					
			access controls, and device monitoring).		x			
	HRS-06	HRS-06.1	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	Are requirements for non-disclosure or confidentiality agreements reflecting the organization's needs for the protection of data and operational details identified, documented, and reviewed at planned intervals?				
			planned intervals.	data and operational decans identified, documented, and reviewed at planned intervals:	x			
	HRS-07	HRS-07.1	Roles and responsibilities of contractors, employees, and third-party	Do you provide tenants with a role definition document clarifying your administrative responsibilities versus those of the				
			users shall be documented as they relate to information assets and security.	tenant?				
1	HRS-08	HRS-08.1		Do you have policies and procedures in place to define allowances and conditions for permitting usage of organizationally-	^			
			processes and technical measures implemented, for defining	owned or managed user end-point devices and IT infrastructure network and systems components?	x			
		HRS-08.2	allowances and conditions for permitting usage of organizationally- owned or managed user end-point devices (e.g., issued workstations,	Do you define allowance and conditions for BYOD devices and its applications to access corporate resources?				
	HRS-09	HRS-09.1	A security awareness training program shall be established for all	Do you provide a formal, role-based, security awareness training program for cloud-related access and data management	х			
			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	all persons with access to tenant data?	x			
		HRS-09.2		Do you specifically train your employees regarding their specific role and the information security controls they must fulfill?				
	-	HRS-09.3	relating to their professional function relative to the organization.	Do you document employee acknowledgment of training they have completed?	X X			
		HRS-09.4		Is successful and timed completion of the training program(s) considered a prerequisite for acquiring and maintaining access	x			
				to sensitive systems?				
		HRS-09.5 HRS-09.6		Are personnel trained and provided with awareness programs at least once a year? Are administrators and data stewards properly educated on their legal responsibilities with regard to security and data	x x			
		HK3-09.6		integrity?	×			
	HRS-10	HRS-10.1	All personnel shall be made aware of their roles and responsibilities	Are personnel informed of their responsibilities for maintaining awareness and compliance with published security policies,	х			
			for: • Maintaining awareness and compliance with established policies	procedures, standards, and applicable regulatory requirements?				
		HRS-10.2 HRS-10.3	and procedures and applicable legal, statutory, or regulatory	Are personnel informed of their responsibilities for maintaining a safe and secure working environment? Are personnel informed of their responsibilities for ensuring that equipment is secured and not left unattended?	x x			
	HRS-11	HRS-10.3	Policies and procedures shall be established to require that	Are all computers and laptops configured such that there is lockout screen after a pre-defined amount of time?	×			
		HRS-11.2	unattended workspaces do not have openly visible (e.g., on a desktop	Are there policies and procedures to ensure that unattended workspaces do not have openly visible (e.g., on a desktop)	×			
	1444.04	1444.04.4	sensitive documents and user computing sessions had been disabled	sensitive documents?				
	IAM-01	IAM-01.1	Access to, and use of, audit tools that interact with the organization's information systems shall be appropriately segmented and restricted					
		IAM-01.2	to prevent compromise and misuse of log data.		х			
				Do you monitor and log privileged access (e.g., administrator level) to information security management systems?	x			
	IAM-02	IAM-02.1		Do you have controls in place ensuring timely removal of systems access that is no longer required for business purposes?	х			
		IAM-02.2		Do you have policies, procedures and technical measures in place to ensure appropriate data/assets access management in adherence to legal, statutory or regulatory compliance requirements?	y			
	1	IAM-02.3		Do you have procedures and technical measures in place for user account entitlement de-/provisioning based on the rule of	^			
				least privilege?	x			
		IAM-02.4	I I I I I I I I I I I I I I I I I I I	Do you have procedures and technical measures in place for data access segmentation in multi-tenant system architectures?				
		IAM-02.5	User access policies and procedures shall be established, and support • Procedures, supporting roles, and responsibilities for provisioning a		X			
			Business case considerations for higher levels of assurance and mul	Do you enforce data access permissions based on the rules of Authentication, Authorization and Accountability (AAA)?	х			
		IAM-02.6	 Access segmentation to sessions and data in multi-tenant architect 	III Do your policies and procedures incorporate security controls for establishing higher levels of assurance for critical hysiness				
			Account credential lifecycle management from instantiation through r Account credential and (or identity store minimization or required and or identity store minimization or required.)	case considerations, supported by multifactor authentication?		X		

		IAM-02.7	Authorization authorization and accounting (AAA) rules for account	Do you provide metrics to track the speed with which you are able to remove systems access that is no longer required for				
			 Adherence to applicable legal, statutory, or regulatory compliance req 	Ubusiness purposes?	x			
	IAM-03	IAM-03.1	User access to diagnostic and configuration ports shall be restricted to authorized individuals and applications.	Is user access to diagnostic and configuration ports restricted to authorized individuals and applications?				
	IAM-04	ΙΔΜ-04 1	Policies and procedures shall be established to store and manage	Do you manage and store the identity of all personnel who have access to the IT infrastructure, including their level of access?	x x			
	IAWIOT	IAM-04.2	identity information about every person who accesses IT	Do you manage and store the user identity of all personnel who have network access, including their level of access?	×			
	IAM-05	IAM-05.1	User access policies and procedures shall be established, and					
			supporting business processes and technical measures implemented,					
			for restricting user access as per defined segregation of duties to address business risks associated with a user-role conflict of interest.	Do you provide tenants with documentation on how you maintain segregation of duties within your cloud service offering?				
4			address business risks associated with a user role commet or interest.		x			
	IAM-06	IAM-06.1	Access to the organization's own developed applications, program, or	Are controls in place to prevent unauthorized access to your application, program, or object source code, and assure it is				
	-	IAM-06.2	object source code, or any other form of intellectual property (IP), and use of proprietary software shall be appropriately restricted following		х			
		IAIVI-UU.Z	the rule of least privilege based on job function as per established	Are controls in place to prevent unauthorized access to tenant application, program, or object source code, and assure it is restricted to authorized personnel only?	x			
	IAM-07	IAM-07.1	The identification, assessment, and prioritization of risks posed by	Does your organization conduct third-party unauthorized access risk assessments?	х			
		IAM-07.2	business processes requiring third-party access to the organization's information systems and data shall be followed by coordinated	Are preventive, detective corrective compensating controls in place to mitigate impacts of unauthorized or inappropraite				
			application of resources to minimize, monitor, and measure likelihood					
1	IAM-08	IAM-08.1	and impact of unauthorized or inappropriate access. Compensating Policies and procedures are established for permissible storage and		х			
	IAIVI-U6	IAIVI-U6.1	access of identities used for authentication to ensure identities are	Do you document how you grant, approve and enforce access restrictions to tenant/customer credentials following the rules of least privilege?				
		IAM-08.2	only accessible based on rules of least privilege and replication	Based on the rules of least privilege, do you have policies and procedures established for permissible storage and access of	~		1	
			limitation only to users explicitly defined as business necessary.	identities used for authentication?	х			
	IAM-09	IAM-08.3 IAM-09.1	Description in the second of a second of the	Do you limit identities' replication only to users explicitly defined as business necessary?	х		-	
	IAIVI-U9	TAIVI-U9.1	Provisioning user access (e.g., employees, contractors, customers (tenants), business partners and/or supplier relationships) to data and	Does your management provision the authorization and restrictions for user access (e.g., employees, contractors, customers (tenants), business partners, and/or suppliers) prior to their access to data and any owned or managed (physical and virtual)				
			organizationally-owned or managed (physical and virtual)	applications, infrastructure systems, and network components?	x			
		IAM-09.2	applications, infrastructure systems, and network components shall be authorized by the organization's management prior to access being	Do you provide upon the request of users with legitimate interest access (e.g., employees, contractors, customers (tenants),				
			granted and appropriately restricted as per established policies and	business partners and/or suppliers) to data and any owned or managed (physical and virtual) applications, infrastructure systems and network components?	x			
	IAM-10	IAM-10.1	User access shall be authorized and revalidated for entitlement	Do you require a periodical authorization and validation (e.g. at least annually) of the entitlements for all system users and				
			appropriateness, at planned intervals, by the organization's business	administrators (exclusive of users maintained by your tenants), based on the rule of least privilege, by business leadership or				
			leadership or other accountable business role or function supported by evidence to demonstrate the organization is adhering to the rule o	other accountable business role or function?				
		IAM-10.2 IAM-10.3	least privilege based on job function. For identified access violations,	Do you collect evidence to demonstrate that the policy (see question IAM-10.1) has been enforced? Do you ensure that remediation actions for access violations follow user access policies?	х			
		IAIVI-10.5	remediation must follow established user access policies and procedures.	Do you ensure that remediation actions for access violations follow user access policies?	x			
		IAM-10.4	-procedures.	Will you share user entitlement and remediation reports with your tenants, if inappropriate access may have been allowed to				
i	IAM-11	IAM-11.1	Timely de-provisioning (revocation or modification) of user access to	Is timely deprovisioning, revocation, or modification of user access to the organizations systems, information assets, and	х			
	MINITI	IOM: TT.T	data and organizationally-owned or managed (physical and virtual)	data implemented upon any change in status of employees, contractors, customers, business partners, or involved third	×			
		IAM-11.2	applications, infrastructure systems, and network components, shall	harties? Is any change in user access status intended to include termination of employment, contract or agreement, change of				
			be implemented as per established policies and procedures and based		х			
	IAM-12	IAM-12.1 IAM-12.2	Internal corporate or customer (tenant) user account credentials shall be restricted as per the following, ensuring appropriate identity,	Do you support use of, or integration with, existing customer-based Single Sign On (SSO) solutions to your service? Do you use open standards to delegate authentication capabilities to your tenants?	x x			
		IAM-12.3	entitlement, and access management and in accordance with	Do you support identity federation standards (e.g., SAML, SPML, WS-Federation, etc.) as a means of	X			
			established policies and procedures:	authenticating/authorizing users?	х			
		IAM-12.4	 Identity trust verification and service-to-service application (API) and information processing interoperability (e.g., SSO and Federation) 	Do you have a Policy Enforcement Point capability (e.g., XACML) to enforce regional legal and policy constraints on user				
		IAM-12.5	Account credential lifecycle management from instantiation	access? Do you have an identity management system (enabling classification of data for a tenant) in place to enable both role-based			×	
			through revocation • Account credential and/or identity store minimization or re-use	and context-based entitlement to data?			x	
			when feasible	Do you provide tenants with strong (multifactor) authentication options (e.g., digital certs, tokens, biometrics, etc.) for user				
		IAM-12.7	Adherence to industry acceptable and/or regulatory compliant	Do you allow tenants to use third-party identity assurance services?	x	X		
		IAM-12.8	authentication, authorization, and accounting (AAA) rules (e.g., strong/multi-factor, expireable, non-shared authentication secrets)	Do you support password (e.g., minimum length, age, history, complexity) and account lockout (e.g., lockout threshold,				
				lockout duration) policy enforcement?	x			
		IAM-12.9 IAM-12.10		Do you allow tenants/customers to define password and account lockout policies for their accounts? Do you support the ability to force password changes upon first logon?	x x		-	
		IAM-12.11	i	Do you have mechanisms in place for unlocking accounts that have been locked out (e.g., self-service via email, defined	^		1	
				challenge questions, manual unlock)?	х			
	IAM-13	IAM-13.1	Utility programs capable of potentially overriding system, object, network, virtual machine, and application controls shall be restricted.	Are access to utility programs used to manage virtualized partitions (e.g. shutdown, clone, etc) appropriately restricted and				
			necessors, virtual macinine, and application controls shall be restricted.	monitored?	x			
	IVS-01	IVS-01.1	Higher levels of assurance are required for protection, retention, and					
			lifecycle management of audit logs, adhering to applicable legal, statutory, or regulatory compliance obligations and providing unique	investigation by root cause analysis, and response to incidents?	х			
		IVS-01.2	user access accountability to detect potentially suspicious network	Is physical and logical user access to audit logs restricted to authorized personnel? Can you provide evidence that due diligence mapping of regulations and standards to your controls/architecture/processes	х			
			behaviors and/or file integrity anomalies, and to support forensic	has been performed?	x			
		IVS-01.4	investigative capabilities in the event of a security breach.	Are audit logs centrally stored and retained?	х			
	IV.C 0.3	IVS-01.5	The avertides shall energy the intensity of all vistual as a life in the	Are audit logs reviewed on a regular basis for security events (e.g., with automated tools)? DO YOU log and alert any changes made to virtual machine images regardless of their running state (e.g., dormant, on or	x			
	IVS-02	IVS-02.1 IVS-02.2	The provider shall ensure the integrity of all virtual machine images at all times. Any changes made to virtual machine images must be	cumninel 2 Does the virtual machine management infrastructure include a tamper audit or software integrity function to detect changes	х		-	
			logged and an alert raised regardless of their running state (e.g.,	to the build/configuration of the virtual machine?	x			

		IVS-02.3	dormant, off, or running). The results of a change or move of an image Are changes	ges made to virtual machines, or moving of an image and subsequent validation of the image's integrity, made			
1			immediately	tely available to customers through electronic methods (e.g., portals or alerts)?	х		
	IVS-03		A reliable and mutually agreed upon external time source shall be used to synchronize the system clocks of all relevant information processing systems to facilitate tracing and reconstitution of activity timelines.	se a synchronized time-service protocol (e.g., NTP) to ensure all systems have a common time reference?	x		
	IVS-04	IVS-04.1		rovide documentation regarding what levels of system (e.g., network, storage, memory, I/O, etc.) oversubscription tain and under what circumstances/scenarios?	v		
		IVS-04.2	performance in accordance with legal, statutory, and regulatory Do you rest	estrict use of the memory oversubscription capabilities present in the hypervisor?	x		
		IVS-04.3		ir system's capacity requirements take into account current, projected, and anticipated capacity needs for all			
		IVS-04.4	Is system pe	used to provide services to the tenants? performance monitored and tuned in order to continuously meet regulatory, contractual, and business	х		
	IVS-05	IVS-05.1	Implementers shall ensure that the security vulnerability assessment	nents for all the systems used to provide services to the tenants? ity vulnerability assessment tools or services accommodate the virtualization technologies being used (e.g.,	х		
			(e.g., virtualization aware).	tion aware)?	х		
	IVS-06	IVS-06.1	configured to restrict and monitor traffic between trusted and	laaS offering, do you provide customers with guidance on how to create a layered security architecture equivalence or virtualized solution?		x	
		IVS-06.2	annually, and supported by a documented justification for use for all	egularly update network architecture diagrams that include data flows between security domains/zones?	х		
			Do you regu	egularly review for appropriateness the allowed access/connectivity (e.g., firewall rules) between security /zones within the network?	x		
		IVS-06.4	Are all firew	ewall access control lists documented with business justification?	х		
	IVS-07			ating systems hardened to provide only the necessary ports, protocols, and services to meet business needs using controls (e.g., antivirus, file integrity monitoring, and logging) as part of their baseline build standard or template?	x		
	IVS-08	IVS-08.1		SaaS or PaaS offering, do you provide tenants with separate environments for production and test processes?	x		
		IVS-08.2	prevent unauthorized access or changes to information assets. Separation of the environments may include: stateful inspection For your laa	laaS offering, do you provide tenants with guidance on how to create suitable production and test environments?		x	
1		IVS-08.3	firewalls, domain/realm authentication sources, and clear segregation Do you logic	gically and physically segregate production and non-production environments?	х		
	IVS-09	IVS-09.1	Multi-tenant organizationally-owned or managed (physical and	entalia network environments protected by a mewan or virtual mewan to ensure business and customer security	х		
		IVS-09.2	components, shall be designed, developed, deployed, and configured contractual		x		
		IVS-09.3	segmented from other tenant users, based on the following infrastructur obligations?		x		
		IVS-09.4	Isolation of business critical assets and/or sensitive user data and without inad	ave the ability to logically segment or encrypt customer data such that data may be produced for a single tenant only, advertently accessing another tenant's data?	х		
		IVS-09.5	sensitive da	rm and network environments protected by a firewall or virtual firewall to ensure protection and isolation of data? red and encrypted communication channels used when migrating physical servers, applications, or data to virtual	x		
	IVS-10	IVS-10.1	secured and encrypted communication chambers shall be used when		х		
		IVS-10.2	and, where possible, shall use a network segregated from production-	se a network segregated from production-level networks when migrating physical servers, applications, or data to evers?	x		
	IVS-11	IVS-11.1	personnel based upon the principle of least privilege and supported virtualized s	estrict personnel access to all hypervisor management functions or administrative consoles for systems hosting d systems based on the principle of least privilege and supported through technical controls (e.g., two-factor cation, audit trails, IP address filtering, firewalls and TLS-encapsulated communications to the administrative 17	x		
	IVS-12		processes and technical measures implemented, to protect wireless environmen	ies and procedures established and mechanisms configured and implemented to protect the wireless network nent perimeter and to restrict unauthorized wireless traffic?	x		
		IVS-12.2	Perimeter firewalls implemented and configured to restrict unauthorized traffic SNMP company	ies and procedures established and mechanisms implemented to ensure wireless security settings are enabled with incryption for authentication and transmission, replacing vendor default settings (e.g., encryption keys, passwords, immunity strings)?	x		
		IVS-12.3		ies and procedures established and mechanisms implemented to protect wireless network environments and detect ence of unauthorized (rogue) network devices for a timely disconnect from the network? network arcmicecture ungarants cuerny unemuny ingernes environments and ozar nows triak may nave regar	x		
	IVS-13	IVS-13.1	network architecture diagrams shall clearly identity high-risk	network architecture diagrams cleany identity nigh-risk environments and data nows that may have legal	х		
			depth techniques (e.g., deep packet analysis, traffic throttling, and	nplement technical measures and apply defense-in-depth techniques (e.g., deep packet analysis, traffic throttling c-holing) for detection and timely response to network-based attacks associated with anomalous ingress or egress tterns (e.g., MAC spoofing and ARP poisoning attacks) and/or distributed denial-of-service (DDoS) attacks?	x		
Interoperability & PortabilityAPIs	IPY-01	IPY-01.1	The provider shall use open and published APIs to ensure support for interoperability between components and to facilitate migrating applications.	ublish a list of all APIs available in the service and indicate which are standard and which are customized?	x		
, , , , ,	IPY-02	IPY-02.1	All structured and unstructured data shall be available to the	ctured customer data available on request in an industry-standard format (e.g., .doc, .xls, or .pdf)?			
Interoperability & PortabilityData Re			format (e.g., .doc, .xls, .pdf, logs, and flat files).		x		
	IPY-03	IPY-03.1	terms shall be established to satisfy customer (tenant) requirements your service	rovide policies and procedures (i.e. service level agreements) governing the use of APIs for interoperability between rice and third-party applications?			
		IPY-03.2		irtual infrastructure, do you allow virtual machine images to be downloaded and ported to a new cloud provider?	x		
Interoperability & PortabilityPolicy &		IPY-03.3	information exchange, usage, and integrity persistence. Do you prover from your seems of the province of the	rovide policies and procedures (i.e. service level agreements) governing the migration of application data to and ir service?	x		

	IPY-04	IPY-04.1	The provider shall use secure (e.g., non-clear text and authenticated)	Is data import, data export, and service management be conducted over secure (e.g., non-clear text and authenticated),			
			standardized network protocols for the import and export of data and		x		
		IPY-04.2	to manage the service, and shall make available a document to	Do you provide consumers (tenants) with documentation detailing the relevant interoperability and portability network			
Interoperability & PortabilityStandar			consumers (tenants) detailing the relevant interoperability and	protocol standards that are involved? Do you use an inquisity-recognized virtualization platform and standard virtualization formats (e.g., OVF) to help ensure	х		
	IPY-05	IPY-05.1	The provider shall use an industry-recognized virtualization platform	interpoporability2	x		
		IPY-05.2	and standard virtualization formats (e.g., OVF) to help ensure	If using virtual infrastructure, are machine images made available to the customer in a way that would allow the customer to	×		
			interoperability, and shall have documented custom changes made to				
		IPY-05.3	any hypervisor in use, and all solution-specific virtualization hooks,	Do you have documented custom changes made to any hypervisor in use, and all solution-specific virtualization hooks	x		
Interoperability & PortabilityVirtualiz				available for customer review?			
	MOS-01	MOS-01.1	Anti-malware awareness training, specific to mobile devices, shall be			x	
Mobile SecurityAnti-Malware			included in the provider's information security awareness training.	Do you provide anti-malware training specific to mobile devices as part of your information security awareness training?			
Wobile SecurityAnti-Walware	MOS-02	MOS-02.1	A documented list of approved application stores has been				
	IVIU3-02	IVIUS-02.1	communicated as acceptable for mobile devices accessing or storing	Do you document and make available lists of approved application stores for mobile devices accessing or storing company		×	
Mobile SecurityApplication Stores			provider managed data.	data and/or company systems?			
, ,,	MOS-03	MOS-03.1	The company shall have a documented policy prohibiting the			×	
				Do you have a policy enforcement capability (e.g., XACML) to ensure that only approved applications and those from			
			obtained through a pre-identified application store.	approved application stores can be loaded onto a mobile device?			
Mobile SecurityApproved Application							
	MOS-04	MOS-04.1	The BYOD policy and supporting awareness training clearly states the	Does your BYOD policy and training clearly state which applications and applications stores are approved for use on BYOD		x	
			approved applications, application stores, and application extensions	devices?			
Mobile SecurityApproved Software fo			and plugins that may be used for BYOD usage.				
	MOS-05	MOS-05.1	The provider shall have a documented mobile device policy that includes a documented definition for mobile devices and the			×	
			acceptable usage and requirements for all mobile devices. The	Do you have a documented mobile device policy in your employee training that clearly defines mobile devices and the			
			provider shall post and communicate the policy and requirements	accepted usage and requirements for mobile devices?			
Mobile SecurityAwareness and Traini			through the company's security awareness and training program.				
	MOS-06	MOS-06.1	All cloud-based services used by the company's mobile devices or	Do have a decreased list of the annual aloud based on the tare allowed to be		x	
			BYOD shall be pre-approved for usage and the storage of company	Do you have a documented list of pre-approved cloud based services that are allowed to be used for use and storage of company business data via a mobile device?			
Mobile SecurityCloud Based Services			business data.	Company business data via a mobile device:			
	MOS-07	MOS-07.1	The company shall have a documented application validation process	Do you have a documented application validation process for testing device, operating system, and application compatibility			
			to test for mobile device, operating system, and application	issues?			
Mobile SecurityCompatibility			compatibility issues.			x	
Mobile SecurityDevice Eligibility	MOS-08	MOS-08.1	The BYOD policy shall define the device and eligibility requirements to	Do you have a BYOD policy that defines the device(s) and eligibility requirements allowed for BYOD usage?			
Wobile Security Device Eligibility	MOS-09	MOS-09.1				, x	
	MOS-09	MOS-09.1	An inventory of all mobile devices used to store and access company data shall be kept and maintained. All changes to the status of these				
			devices, (i.e., operating system and patch levels, lost or	Do you maintain an inventory of all mobile devices storing and accessing company data which includes device status (e.g.,			
			decommissioned status, and to whom the device is assigned or	operating system and patch levels, lost or decommissioned, device assignee)?			
			approved for usage (BYOD)), will be included for each device in the				
Mobile SecurityDevice Inventory			inventory.			x	
	MOS-10	MOS-10.1	A centralized, mobile device management solution shall be deployed	Do you have a centralized mobile device management solution deployed to all mobile devices that are permitted to store,			
			to all mobile devices permitted to store, transmit, or process	transmit, or process company data?			
Mobile SecurityDevice Management			customer data.			x	
	MOS-11	MOS-11.1	The mobile device policy shall require the use of encryption either for the entire device or for data identified as sensitive on all mobile	Does your mobile device policy require the use of encryption for either the entire device or for data identified as sensitive			
			devices and shall be enforced through technology controls.	enforceable through technology controls for all mobile devices?			
Mobile SecurityEncryption			devices and shall be emorced through technology controls.	emoreable through technology controls for all mobile devices:		×	
, ,,,,,	MOS-12	MOS-12.1	The mobile device policy shall prohibit the circumvention of built-in	boes your mobile device policy pronibit the circumvention or built-in security controls on mobile devices (e.g., jailoreaking of		x	
		MOS-12.2	security controls on mobile devices (e.g., jailbreaking or rooting) and	Do you have detective and preventative controls on the device or via a centralized device management system which			
Mobile SecurityJailbreaking and Root			is enforced through detective and preventative controls on the device	prohibit the circumvention of built-in security controls?		x	
	MOS-13	MOS-13.1	The BYOD policy includes clarifying language for the expectation of	Does your BYOD policy clearly define the expectation of privacy, requirements for litigation, e-discovery, and legal holds?		x	
		MOS-13.2	privacy, requirements for litigation, e-discovery, and legal holds. The	Does the BYOD policy clearly state the expectations over the loss of non-company data in case a wipe of the device is			
Mobile SecurityLegal			BYOD policy shall clearly state the expectations over the loss of non-	required?		x	
	MOS-14	MOS-14.1	BYOD and/or company owned devices are configured to require an	Description of the Control of the Co			
Mobile SecurityLockout Screen			automatic lockout screen, and the requirement shall be enforced through technical controls.	Do you require and enforce via technical controls an automatic lockout screen for BYOD and company owned devices?		l .	
Wiobile Security Lock out Screen	MOS-15	MOS-15.1	Changes to mobile device operating systems, patch levels, and/or			^	
	14103-13	1005-15.1	applications shall be managed through the company's change	Do you manage all changes to mobile device operating systems, patch levels, and applications via your company's change			
Mobile SecurityOperating Systems			management processes.	management processes?		×	
1	MOS-16	MOS-16.1	Password policies, applicable to mobile devices, shall be documented	Do you have password policies for enterprise issued mobile devices and/or BYOD mobile devices?		x	
		MOS-16.2	and enforced through technical controls on all company devices or	Are your password policies enforced through technical controls (i.e. MDM)?		x	
		MOS-16.3	devices approved for BYOD usage, and shall prohibit the changing of	Do your password policies prohibit the changing of authentication requirements (i.e. password/PIN length) via a mobile			
Mobile SecurityPasswords			password/PIN lengths and authentication requirements.	device?		х	
	MOS-17	MOS-17.1	The mobile device policy shall require the BYOD user to perform	Do you have a policy that requires BYOD users to perform backups of specified corporate data?	1	x	
		MOS-17.2		Do you have a policy that requires BYOD users to prohibit the usage of unapproved application stores?		х	
Mobile SecurityPolicy		MOS-17.3	and require the use of anti-malware software (where supported).	Do you have a policy that requires BYOD users to use anti-malware software (where supported)?		х	
	MOS-18	MOS-18.1	All mobile devices permitted for use through the company BYOD	Does your IT provide remote wipe or corporate data wipe for all company-accepted BYOD devices?		x	
Mobile SecurityRemote Wipe		MOS-18.2	program or a company-assigned mobile device shall allow for remote	Does your IT provide remote wipe or corporate data wipe for all company-assigned mobile devices?		x	
	MOS-19	MOS-19.1	Mobile devices connecting to corporate networks or storing and	Do your mobile devices have the latest available security-related patches installed upon general release by the device			
			accessing company information shall allow for remote software	manufacturer or carrier?		×	
Mobile Security Security Patches		MOS-19.2	version/patch validation. All mobile devices shall have the latest	Do your mobile devices allow for remote validation to download the latest security patches by company IT personnel?		x	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MOS-20	MOS-20.1	The BYOD policy shall clarify the systems and servers allowed for use	Does your BYOD policy clarify the systems and servers allowed for use or access on the BYOD-enabled device?		x	
Mobile Security Users		MOS-20.2	or access on a BYOD-enabled device.	Does your BYOD policy specify the user roles that are allowed access via a BYOD-enabled device?		x	
				, and the second		 	

SEF-01	SEF-01.1	Points of contact for applicable regulation authorities, national and local law enforcement, and other legal jurisdictional authorities shall be maintained and regularly updated (e.g., change in impacted-scope					
		and/or a change in any compliance obligation) to ensure direct compliance liaisons have been established and to be prepared for a forensic investigation requiring rapid engagement with law	Do you maintain liaisons and points of contact with local authorities in accordance with contracts and appropriate regulations?				
		enforcement.		x			
SEF-02	SEF-02.1	Policies and procedures shall be established, and supporting business		х			
	SEF-02.2	processes and technical measures implemented, to triage security- related events and ensure timely and thorough incident management	Do you integrate customized tenant requirements into your security incident response plans?	х			
	SEF-02.3	as per established IT service management policies and procedures.	Do you publish a roles and responsibilities document specifying what you vs. your tenants are responsible for during security incidents?	×			
	SEF-02.4		Have you tested your security incident response plans in the last year?	x			
SEF-03	SEF-03.1	Workforce personnel and external business relationships shall be informed of their responsibility and, if required, shall consent and/or	Are workforce personnel and external business relationships adequately informed of their responsibility, and, if required, consent and/or contractually required to report all information security events in a timely manner?	x			
	SEF-03.2	contractually agree to report all information security events in a timely manner. Information security events shall be reported through predefined communications channels in a timely manner adhering to applicable legal, statutory, or regulatory compliance obligations.					
SEF-04	SEF-04.1	Proper forensic procedures, including chain of custody, are required for the presentation of evidence to support potential legal action	Does your incident response plan comply with industry standards for legally admissible chain-of-custody management processes and controls?	х			
	SEF-04.2	subject to the relevant jurisdiction after an information security		X			
		incident. Upon notification, customers and/or other external business partners impacted by a security breach shall be given the opportunity	Does your incident response capability include the use of legally admissible forensic data collection and analysis techniques?	х			
	SEF-04.3	to participate as is legally permissible in the forensic investigation.	Are you capable of supporting litigation holds (freeze of data from a specific point in time) for a specific tenant without freezing other tenant data?	×			
	SEF-04.4		Do you enforce and attest to tenant data separation when producing data in response to legal subpoenas?	x			
SEF-05	SEF-05.1	Mechanisms shall be put in place to monitor and quantify the types,	Do you monitor and quantify the types, volumes, and impacts on all information security incidents?	х			
CT4 04	SEF-05.2	volumes, and costs of information security incidents.	Will you share statistical information for security incident data with your tenants upon request? uo you inspect and account for data quality errors and associated risks, and work with your cloud supply-chain partners to	х			
STA-01	STA-01.1 STA-01.2	Providers shall inspect, account for, and work with their cloud supply- chain partners to correct data quality errors and associated risks.	Correct them? Do you design and implement controls to mitigate and contain data security risks through proper separation of duties, role-	х		-	
		Providers shall design and implement controls to mitigate and contain	based access, and least-privileged access for all personnel within your supply chain?	x			
STA-02	STA-02.1	The provider shall make security incident information available to all affected customers and providers periodically through electronic methods (e.g., portals).	Do you make security incident information available to all affected customers and providers periodically through electronic methods (e.g., portals)?	x			
STA-03	STA-03.1	Business-critical or customer (tenant) impacting (physical and virtual)	Do you collect capacity and use data for all relevant components of your cloud service offering?	х			
		application and 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.	Do you provide tenants with capacity planning and use reports?	x			
STA-04		The provider shall perform annual internal assessments of conformance and effectiveness of its policies, procedures, and supporting measures and metrics.	Do you perform annual internal assessments of conformance and effectiveness of your policies, procedures, and supporting measures and metrics?	x			
STA-05	STA-05.1	Supply chain agreements (e.g., SLAs) between providers and customers (tenants) shall incorporate at least the following mutually-		x			
	STA-05.2	agreed upon provisions and/or terms: • Scope of business relationship and services offered (e.g., customer	Do you select and monitor outsourced providers to ensure that they are in compliance with applicable legislation?	x			
	STA-05.3	(tenant) data acquisition, exchange and usage, feature sets and	Does legal counsel review all third-party agreements?		х		
	STA-05.4 STA-05.5	functionality, personnel and infrastructure network and systems components for service delivery and support, roles and	Do third-party agreements include provision for the security and protection of information and assets?	x x		-	
	STA-05.5 STA-05.6	responsibilities of provider and customer (tenant) and any	Do you have the capability to recover data for a specific customer in the case of a failure or data loss? Do you have the capability to restrict the storage of customer data to specific countries or geographic locations?	x			
	STA-05.7	subcontracted or outsourced business relationships, physical geographical location of hosted services, and any known regulatory	Can you provide the physical location/geography of storage of a tenant's data upon request?	x			
	STA-05.8	compliance considerations)	Can you provide the physical location/geography of storage of a tenant's data in advance?	х			
	STA-05.9 STA-05.10	 Information security requirements, provider and customer (tenant) 	Do you allow tenants to define acceptable geographical locations for data routing or resource instantiation? As out type in place to monitor for privacy broaders and patific topasts evenditionly if a privacy event may have impacted.		х		
	31A-05.10	primary points of contact for the duration of the business relationship and references to detailed supporting and relevant business processes	Are systems in place to monitor for privacy breaches and notify tenants expeditiously if a privacy event may have impacted their data?	x			
	STA-05.11	and technical measures implemented to enable effectively	Do you allow tenants to opt out of having their data/metadata accessed via inspection technologies?	х			
	STA-05.12	governance, risk management, assurance and legal, statutory and	Do you provide the client with a list and copies of all subprocessing agreements and keep this updated?	х			
STA-06	STA-06.1	Providers shall review the risk management and governance 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.	Do you review the risk management and governance processes of partners to account for risks inherited from other members of that partner's supply chain?	×			
STA-07	STA-07.1	Policies and procedures shall be implemented to ensure the consistent review of service agreements (e.g., SLAs) between	Are policies and procedures established, and supporting business processes and technical measures implemented, for maintaining complete, accurate, and relevant agreements (e.g., SLAs) between providers and customers (tenants)?	×			
	STA-07.2	providers and customers (tenants) across the relevant supply chain (upstream/downstream). Reviews shall be performed at least annually	De seu base the ability to many and address on an enformance of manifestation and/or town accept the autic assets the ability to	x			
	STA-07.3	and identify non-conformance to established agreements. The reviews should result in actions to address service-level conflicts or	Can you manage service-level conflicts or inconsistencies resulting from disparate supplier relationships?	х			
	STA-07.4	inconsistencies resulting from disparate supplier relationships.	Do you provide tenants with ongoing visibility and reporting of your operational Service Level Agreement (SLA) performance?	×			
	STA-07.5	1	Do you make standards-based information security metrics (CSA, CAMM, etc.) available to your tenants?	×			
	STA-07.6		Do you provide customers with ongoing visibility and reporting of your SLA performance?	х			
	STA-07.7		Do your data management policies and procedures address tenant and service level conflicts of interests?	x			
	STA-07.8		Do you review all service level agreements at least annually?	Х		I	

STA			Do you assure reasonable information security across your information supply chain by performing an annual review?	х	
	STA-08.2	information supply chain by performing an annual review. The review shall include all partners/third party providers upon which their	Does your annual review include all partners/third-party providers upon which your information supply chain depends?	x	
STA	A-09 STA-09.1		Do you mandate annual information security reviews and audits of your third party providers to ensure that all agreed upon security requirements are met?	x	
	STA-09.2	definitions, and delivery level agreements included in third-party contracts. Third-party reports, records, and services shall undergo	Do you have external third party services conduct vulnerability scans and periodic penetration tests on your applications and networks?	x	
TVM	N-01 TVM-01.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, to prevent the	Do you have anti-malware programs that support or connect to your cloud service offerings installed on all of your IT infrastructure network and systems components?	x	
	TVM-01.2		Do you ensure that security threat detection systems using signatures, lists, or behavioral patterns are updated across all infrastructure components as prescribed by industry best practices?		
TVM	4 02 TIMA 02 4	N. P. C		х	
IVM	M-02 TVM-02.1 TVM-02.2	•	Do you conduct network-layer vulnerability scans regularly as prescribed by industry best practices?	X	
	TVM-02.2	the same and the s	Do you conduct application-layer vulnerability scans regularly as prescribed by industry best practices? Do you conduct local operating system-layer vulnerability scans regularly as prescribed by industry best practices?	x x	
	TVM-02.3	and Providence Codes about the control and another control to a	Will you make the results of vulnerability scans available to tenants at their request?	x	
		notwork vulnorability accomment, popularation testing) to ensure the	Do you have a capability to patch vulnerabilities across all of your computing devices, applications, and systems?	x	
TVM	officiency of implemented security controls. A risk-based model for prioritizing remediation of identified vulnerabilities shall be used. Changes shall be managed through a change management process all vendor-supplied patches, configuration changes, or changes to organization's internally developed software. Upon request, the provider informs customer (tenant) of policies and procedures and identified weaknesses especially if customer (tenant) data is used part the service and/or customer (tenant) has some shared responsibility over implementation of control.	efficiency of implemented security controls. A risk-based model for prioritzing remediation of identified vulnerabilities shall be used. Changes shall be managed through a change management process for all vendor-supplied patches, configuration changes, or changes to the organization's internally developed software. Upon request, the provider informs customer (tenant) of policies and procedures and identified weaknesses especially if customer (tenant) data is used as part the service and/or customer (tenant) has some shared responsibility over implementation of control. Policies and procedures shall be established, and supporting business		x	x
	TVM-03.2	processes and technical measures implemented, to prevent the execution of unauthorized mobile code, defined as software transferred between systems over a trusted or untrusted network and executed on a local system without explicit installation or execution by the recipient, on organizationally-owned or managed user end- point devices (e.g., issued workstations, laptops, and mobile devices) and IT infrastructure network and systems components.	mobile code operates according to a clearly defined security policy? Is all unauthorized mobile code prevented from executing?		x
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