

CONSENSUS ASSESSMENTS INITIATIVE QUESTIONNAIRE v3.1 - 3DGIS srl (Jan 2020)

The information described in this paper is detailed as of the time of authorship. The information in this document does not amend or in any way alter 3DGIS' security obligations as part of its contractual agreement with Customer. 3DGIS may discontinue or change the processes, procedures and controls described in this document at any time without notice.

Control Domain	Control ID	Question ID	Control Specification	Consensus Assessment Questions	Conse	nsus Asses	sment Answers	Notes
					Yes	No	Not Applicable	
Application & Interface Security Application Security	AIS-01	AIS-01.1	Applications and programming interfaces (APIs) shall be designed, developed, deployed, and tested in	Do you use industry standards (i.e. OWASP Software Assurance Maturity Model, ISO 27034) to build in security for your	x			OWASP SAMM in combination to ISO 9001:2015 procedures
		AIS-01.2	accordance with leading industry standards (e.g., OWASP for web applications) and adhere to applicable	Do you use an automated source code analysis tool to detect security defects in code prior to production?		x		
		AIS-01.3	legal, statutory, or regulatory compliance obligations.	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?	x			OWASP SAMM in combination to ISO 9001:2015 procedures
		AIS-01.5		(SaaS only) Do you review your applications for security vulnerabilities and address any issues prior to deployment to production?	x			
Application & Interface Security Customer Access Requirements	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?	x			
		AIS- 02.2		Are all requirements and trust levels for customers' access defined and documented?	х			
Application & Interface Security	AIS-03	AIS-03.1	Data input and output integrity routines (i.e., reconciliation and edit	Does your data management policies and procedures require audits to verify data input	х			
Data Integrity		AIS-03.2	checks) shall be implemented for application interfaces and databases to prevent manual or systematic processing errors, corruption of data, or misuse.	Are data input and output integrity routines (i.e. MD5/SHA checksums) implemented for application interfaces and databases to prevent manual or systematic processing errors or corruption of data?	x			
Application & Interface Security Data Security / Integrity	AIS-04	AIS-04.1	Policies and procedures shall be established and maintained in support of data security to include (confidentiality, integrity, and availability) across multiple system interfaces, jurisdictions, 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)?			x	
Audit Assurance & Compliance Audit Planning	AAC-01	AAC-01.1	Audit plans shall be developed and maintained to address business process disruptions. Auditing plans shall focus on reviewing the effectiveness of the implementation of security operations.	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			
		AAC-01.2	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?	x			
Audit Assurance & Compliance Independent Audits	AAC-02	AAC-02.1	Independent reviews and assessments shall be performed at least annually to ensure that the organization addresses nonconformities of established policies,	Do you allow tenants to view your SOC2/ISO 27001 or similar third-party audit or certification reports?			x	3DGIS is looking forward to certificate its activities under ISO 27001 in the future.
		AAC-02.2	standards, procedures, and compliance obligations.	Do you conduct network penetration tests of your cloud service infrastructure at least annually?	x			
		AAC-02.3		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	x			
		AAC-02.5		annually? Do you conduct independent audits at least annually?	х			
		AAC-02.6		Are the results of the penetration tests available to tenants at their request?	х			
		AAC-02.7		Are the results of internal and external audits available to tenants at their request?	х			

Audit Assurance & Compliance Information System Regulatory Mapping	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?	x			
Business Continuity Management & Operational Resilience	BCR-01	BCR-01.1	A consistent unified framework for business continuity planning and plan development shall be established, documented, and adopted to ensure all	Does your organization have a plan or framework for business continuity management or disaster recovery management?	x			
Business Continuity Planning		BCR-01.2	business continuity plans are consistent in addressing priorities for testing,	Do you have more than one provider for each service you depend on?	x			
		BCR-01.3	maintenance, and information security requirements. Requirements for	Do you provide a disaster recovery capability?	x			
		BCR-01.4	business continuity plans include the following:	Do you monitor service continuity with upstream providers in the event of provider	x			
		BCR-01.5	Defined purpose and scope, aligned with relevant dependencies	Do you provide access to operational redundancy reports, including the services you	x			
		BCR-01.6	Accessible to and understood by	Do you provide a tenant-triggered failover option?	x			On request and regulated by terms.
		BCR-01.7	 those who will use them Owned by a named person(s) who is responsible for their review, update, and approval Defined lines of communication, 	Do you share your business continuity and redundancy plans with your tenants?	x			On request.
Business Continuity Management & Operational Resilience Business Continuity Testing	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?	x			
Business Continuity Management & Operational Resilience Power / Telecommunications	BCR-03	BCR-03.1	Data center utilities services and environmental conditions (e.g., water, power, temperature and humidity controls, telecommunications, and internet connectivity) shall be secured, monitored, maintained, and tested for	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?			x	3DGIS uses third party CSP.
		BCR-03.2	continual effectiveness at planned intervals to ensure protection from unauthorized interception 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?			x	3DGIS uses third party CSP.
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?	x			
Business Continuity Management & Operational Resilience Environmental Risks	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?			x	3DGIS uses third party CSP.
Business Continuity Management & Operational Resilience Equipment Location	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.)?		x		
Business Continuity Management & Operational Resilience	BCR-07	BCR-07.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, for equipment	Do you have documented policies, procedures and supporting business processes for equipment and datacenter maintenance?			x	3DGIS uses third party CSP.
Equipment Maintenance		BCR-07.2	maintenance ensuring continuity and availability of operations and support personnel.	Do you have an equipment and datacenter maintenance routine or plan?			x	3DGIS uses third party CSP.

Business Continuity	BCR-08	BCR-08.1	Protection measures shall be put into		1		3DGIS uses third party CSP.
Management & Operational Resilience Equipment Power Failures			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.)?		x	
Business Continuity Management & Operational Resilience Impact Analysis	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	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) ?	x		
		BCR-09.2	 Identify all dependencies, including processes, applications, business partners, and third party service providers Understand threats to critical products and services Determine impacts resulting from 	Does your organization conduct impact analysis pertaining to possible disruptions to the cloud service?	x		
Business Continuity Management & Operational Resilience Policy	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.	Are policies and procedures established and made available for all personnel to adequately support services operations' roles?	x		
Business Continuity	BCR-11	BCR-11.1	Policies and procedures shall be	Do you have technical capabilities to enforce	x		
Management & Operational Resilience Retention Policy		BCR-11.2	established, and supporting business processes and technical measures implemented, for defining and adhering to the retention period of any critical asset as per established policies and procedures, as well as applicable	tenant data retention policies? 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	legal, statutory, or regulatory compliance obligations. Backup and recovery measures shall be incorporated as part of business	Have you implemented backup or recovery mechanisms to ensure compliance with regulatory, statutory, contractual or business requirements?	x		
		BCR-11.4	continuity planning and tested accordingly for effectiveness.	If using virtual infrastructure, does your cloud solution include independent hardware restore and recovery capabilities?	x		
		BCR-11.5		If using virtual infrastructure, do you provide tenants with a capability to restore a virtual machine to a previous configuration?		x	Cloud infrastructure is not exposed to tenants.
		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?	x		
Change Control & Configuration Management New Development / Acquisition	CCC-01	CCC-01.1	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 corporate, operations and/or data center facilities have been pre-authorized by the organization's business leadership or other accountable business role or function.	Are policies and procedures established for management authorization for development or acquisition of new applications, systems, databases, infrastructure, services, operations and facilities?	x		
Change Control & Configuration Management Outsourced	CCC-02	CCC-02.1	External business partners shall adhere to the same policies and procedures for change management, release, and testing as internal developers within	Are policies and procedures for change management, release, and testing adequately communicated to external business partners?		x	3DGIS does not outsource the development of its code.
Development		CCC-02.2	the organization (e.g., ITIL service management processes).	Are policies and procedures adequately enforced to ensure external business partners comply with change management requirements?		x	3DGIS does not outsource the development of its code.
Change Control & Configuration Management Quality Testing	CCC-03	CCC-03.1	Organizations shall follow a defined quality change control and testing process (e.g., ITIL Service Management) with established	Do you have a defined quality change control and testing process in place based on system availability, confidentiality, and integrity?	x		
		CCC-03.2	baselines, testing, and release standards which focus on system	Is documentation describing known issues with certain products/services available?	x		Technical manual and user manual if applicable.

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		CCC-03.3	availability, 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?	x		
		CCC-03.4		Do you have controls in place to ensure that standards of quality are being met for all software development?	x		
		CCC-03.5		Do you have controls in place to detect source code security defects for any outsourced software development activities?	x		
		CCC-03.6		Are mechanisms in place to ensure that all debugging and test code elements are removed from released software versions?	x		
Change Control & Configuration Management Unauthorized Software Installations	CCC-04	CCC-04.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, to restrict the 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?	x		
Change Control & Configuration Management Production Changes	CCC-05	CCC-05.1	Policies and procedures shall be established for managing the risks associated with applying changes to: • Business-critical or customer (tenant) impacting (physical and virtual)	Do you provide tenants with documentation that describes your production change management procedures and their roles/rights/responsibilities within it?	x		On request.
		CCC-05.2	applications and system-system interface (API) designs and configurations. • Infrastructure network and systems	Do you have policies and procedures established for managing risks with respect to change management in production environments?	x		
		CCC-0.5.3	components. Technical measures shall be implemented to provide assurance that all changes directly correspond to a	Do you have technical measures in place to ensure that changes in production environments are registered, authorized and in adherence with existing SLAs?	x		
Data Security & Information Lifecycle Management <i>Classification</i>	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 the organization.	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)?		x	
		DSI-01.2		Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)?		x	
Data Security & Information Lifecycle Management Data Inventory /	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	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?	x		
Flows		DSI-02.2	resident (permanently or temporarily) within the service's geographically distributed (physical and virtual)	Can you ensure that data does not migrate beyond a defined geographical residency?	x		
Data Security & Information Lifecycle Management E-commerce Transactions	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)?	x		
		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)?	x		
Data Security & Information Lifecycle Management	DSI-04	DSI-04.1	Policies and procedures shall be established for labeling, handling, and the security of data and objects which contain data. Mechanisms for label	Are policies and procedures established for data labeling and handling in order to ensure the security of data and objects that contain data?	x		Customers can setup their own data labeling in 3DGIS solutions.
Handling / Labeling / Security Policy		DSI-04.2	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)?		х	Customers can setup their own data labeling in 3DGIS solutions.
		DSI-04.3		Are mechanisms for label inheritance implemented for objects that act as aggregate containers for data?		x	Customers can setup their own data labeling in 3DGIS solutions.
Data Security & Information Lifecycle Management Nonproduction Data	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	x		Data replication is allowed only with explicit tenant authorization and managed under a specific protocol.

Data Security & Information	DSI-06	DSI-06.1	All data shall be designated with stewardship, with assigned	Are the responsibilities regarding data				
Lifecycle Management Ownership / Stewardship			responsibilities defined, documented, and communicated.	stewardship defined, assigned, documented, and communicated?	x			
Data Security & Information Lifecycle	DSI-07	DSI-07.1	Policies and procedures shall be established with supporting business processes and technical measures	Do you support the secure deletion (e.g., degaussing/cryptographic wiping) of archived and backed-up data?	x			On request.
Management Secure Disposal		DSI-07.2	implemented for the secure disposal and complete removal of data from all storage media, ensuring data is not recoverable by any computer forensic means.	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?		x		Data deletion is regulated as stated in business terms.
Datacenter Security Asset Management	DCS-01	DCS-01.1	Assets must be classified in terms of business criticality, service-level expectations, and operational continuity requirements. A complete	Do you classify your assets in terms of business criticality, service-level expectations, and operational continuity requirements?			x	3DGIS uses third party CSP.
		DCS-01.2	inventory of business-critical assets located at all sites and/or geographical locations and their usage over time shall be maintained and updated	Do you maintain a complete inventory of all of your critical assets located at all sites/ or geographical locations and their assigned ownership?	x			
Datacenter Security Controlled Access Points	DCS-02	DCS-02.1	Physical security perimeters (e.g., 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.	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 systems?			x	3DGIS uses third party CSP.
Datacenter Security Equipment Identification	DCS-03	DCS-03.1	Automated equipment identification shall be used as a method of connection authentication. Location-	Do you have a capability to use system geographic location as an authentication factor?			x	
		DCS-03.2	aware technologies may be used to validate connection authentication integrity based on known equipment location.	Is automated equipment identification used as a method to validate connection authentication integrity based on known equipment location?			x	
Datacenter Security Offsite Authorization	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?	x			
Datacenter Security Offsite Equipment	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 renders 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.	Can you provide tenants with your asset management policies and procedures?		x		
Datacenter Security Policy	DCS-06	DCS-06.1	Policies and procedures shall be established, and supporting business processes implemented, for maintaining a safe and secure working environment in offices, rooms,	Can you provide evidence that policies, standards, and procedures have been established for maintaining a safe and secure working environment in offices, rooms, facilities, and secure areas?	x			
		DCS-06.2	facilities, and secure areas storing sensitive information.	Can you provide evidence that your personnel and involved third parties have been trained regarding your documented policies, standards, and procedures?	x			3DGIS trains its employees annually in its security policies. Third-parties agree to observe security policies as part of their contract.
Datacenter Security Secure Area Authorization	DCS-07	DCS-07.1	Ingress and egress to secure areas shall be constrained and monitored by physical access control mechanisms to ensure that only authorized personnel are allowed access.	Are physical access control mechanisms (e.g. CCTV cameras, ID cards, checkpoints) in place to secure, constrain and monitor egress and ingress points?	x			
Datacenter Security Unauthorized Persons Entry	DCS-08	DCS-08.1		Are ingress and egress points, such as service areas and other points where unauthorized personnel may enter the premises, monitored, controlled and isolated from data storage and process?	x			
Datacenter Security User Access	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			
Encryption & Key Management Entitlement	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	

Encryption & Key EKM-04.1 Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms shall be required. Keys shall maintained by the cloud consumer or provider? Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms shall be required. Keys maintained by the cloud consumer or provider? Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms shall be required. Keys shall maintained by the cloud consumer or provider? Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms shall be required. Keys shall maintained by the cloud consumer or provider? Do you have platform and gate appropriate encryption keys maintained by the cloud consumer or a trusted key management point for the cloud consumer or a trusted key management point for the cloud consumer or a trusted key management point for the cloud consumer or a trusted key management point for the cloud consumer or a trusted key management point for the cloud consumer or a trusted key management point for the cloud cloud consumer or a trusted key management point for the cloud cloud consumer or a trusted key management point for the cloud cloud consumer or a trusted key management point for the cloud cloud consumer or a trusted key management point for the cloud cloud consumer or a trusted key management point for the cloud cloud consumer or a trusted key management point for the cloud cloud consumer or a trusted key management poin	3DGIS uses third party CSP. 3DGIS uses third party CSP.
Key Generation EKM-02.2 cryptographic keys in the service's cryptosystem (e.g., lifecycle cryptosystem (e.g., lifecycle cryptosystem (e.g., lifecycle cryptographic protocol design and algorithms used, access controls in place for secure keys controls controls controls of protection of sensitive data in storage (e.g., file servers, and electronic messaging) as pre applicable electronic messaging) as pre applicable controls controls controls controls and data appropriate encryption method formats and standard algorithms shall be required. Keys shall be controls c	
EKM-02.3 cryptosystem (e.g., lifecycle management from key generation to revocation and replacement, public key controls in place for secure key generation, and algorithms used, access controls in place for secure key generation, and exchange and storage including segregation of keys used for encryption & Key Management Encryption EKM-02.3 EKM-03.1 EKM-03.1 EKM-03.2 Fill servers, and data in transmission (e.g., system interfaces, over public networks, and electronic messaging as per applicable concryption & Key Management EKM-04.2 EKM-04.2 EKM-04.2 EKM-04.2 Policies and propriate encryption data in transmission (e.g., system interfaces, over public networks, and electronic messaging as per applicable concryption exprise main data in transmission (e.g., system interfaces, over public networks, and electronic messaging as per applicable concryption exprise main data data propriate encryption (e.g., 4ES-256) in open/validated formats and standar algorithms shall be required. Keys shall and tandard algorithms? Do you have platform and data appropriate encryption key smaintained by the cloud consumer or provider? Do you encryption keys maintained by the cloud consumer or provider? Do you maintaina (e.g. maintained by the cloud consumer or provider? Do you maintaina (e.g. maintained by the cloud consumer or provider? X	
EKM-02.3 management from key generation to revocation and replacement, public key level and algorithms used, access controls in place for secure key Do you maintain key management Management X EKM-02.4 information, and exchange and storage including segregation of keys used for encryption keys? X X ENCryption & Key Management EKM-03.1 Policies and procedures shall be established, and supporting business processes and technical measures interfaces, over public networks, and electronic messaging as per applicable Do you have documentation extrabilishing and data in transmission (e.g., system interfaces, over public networks, and electronic messaging as per applicable Do you maintain key management for each starder and standard algorithms? Encryption & Key Management Storage interfaces and procedures shall be required. Keys Management Storage (e.g., file servers, and between networks and hypervisor interfaces, over public networks, and electronic messaging as per applicable Do you and algorithms? X Encryption & Key Management Storage (e.g., file servers, and be required. Keys Shall in oto be stored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or management policies; X X	
Encryption & Key Management EKM-03.4 EKM-03.1 Policies and procedures shall be established, and supporting business procedures shall be concryption & Key EKM-03 EKM-03.2 EKM-03.2 Bencryption EKM-03.2 Bencryption Bencryption X Encryption & Key Management EKM-03.2 EKM-03.2 Policies and procedures shall be established, and supporting business processes and technical measures interfaces, over public networks, and electronic messaging) as per applicable for ophylatide dformats and standard algorithms shal be required. Keys shall rob estored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or provider? EKM-04.2 Fermion and replacement, public keys shall rob policies and procedures shall be established, and supporting business processes and technical measures interfaces, over public networks, and effining your encryption management publicies, procedures, and guidelines? Do you unitize any third party/open source/proprietary frameworks to manage encryption to the use of encryption to protect data and virtual machine images during transport across and between networks and hypervisor instrances? X X	
Image: Provide a set of the	
Encryption & Key Management Storage and Accesss EKM-04.1 EKM-04.2 EKM-04.1 EKM-04.2 Policies and procedures shall be established, and supporting business including segregation of keys used for encryption data or sessions). Upon encryption keys? Do you utilize any third party/open source/proprietary frameworks to manage encryption keys? X Encryption EKM-03.1 Policies and procedures shall be established, and supporting business implemented, for the use of encryption protocols for protection of sensitive data in storage (e.g., file servers, and data in transmission (e.g., system interfaces, over public networks, and electronic messaging) as per applicable Do you and cumentation establishing and defining your environment? X Encryption & Key Management Storage and Accesss EKM-04.1 EKM-04.2 EKM-04.1 established, and supporting protocols for protection of sensitive data in transmission (e.g., system interfaces, over public networks, and electronic messaging) as per applicable Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? X Encryption & Key Management Storage and Accesss EKM-04.1 EKM-04.2 Platform and data appropriate encryption the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms? X	
EKM-02.5 Nanagement Encryption & Key Management Storage and Access EKM-03.1 generation, and exchange and storage including segregation of keys used for encrypted data or sessions). Upon encrypted data or sessions). Upon established, and supporting business implemented, for the use of encryption data in storage (e.g., file servers, data bases, and end-user workstations and data in transmission (e.g., system electronic messaging) as per applicable Do you utilize any third party/open source/proprietary frameworks to manage encryption keys? Do you encryption keys and disk/storage) within your environment? X Encryption & Key Management Storage and Access EKM-04.1 EKM-04.1 Platform and data appropriate open/validated formats and standard algorithms shall be required. Key shall and base shulb erequired. Key shall and bet strain interfaces, over public networks, and electronic messaging) as per applicable Do you leverage encryption management policies, procedures, and guidelines? Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms? X X	
Encryption & Key Management Encryption EKM-03.1 EKM-03.1 Policies and procedures shall be established, and supporting business implemented, for the use of encryption protocols for protection of sensitive data in storage (e.g., file servers, and data in transmission (e.g., system interfaces, over public networks, and electronic messaging) as per applicable Do you leverage encryption to protect data and virtual machine images during transport across and between networks and hypervisor X Encryption & Key Management Storage and Accesss EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.2 Are your encryption keys maintained by the cloud provider in question), but maintained by the cloud consumer or Do you have platform and data appropriate encryption keys maintained by the cloud consumer or a trusted key management provider? X X	
Encryption & Key Management EKM-03.1 Policies and procedures shall be established, and supporting business implemented, for the use of encryption protocols for protection of sensitive data in storage (e.g., file servers, databases, and end-user workstation and data in transmission (e.g., system interfaces, over public networks, and electronic messaging) as per applicable Do you encrypt tenant data at rest (on disk/storage) within your environment? X Image: close servers, and virtual machine images during transport across and between networks and hypervisor instances? Encryption & Key Management Storage and Access EKM-04.1 EKM-04.1 Plaform and data appropriate encryption (e.g., 452-256) in open/validated formats and standard algorithms shall be required. (key shall cloud provider in question), but maintained by the cloud consumer or Do you encrypt tenant data at rest (on disk/storage) within your encryption to protect data and virtual machine images during transport across and between networks and hypervisor instances? X X Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? X X	
Management Encryption EKM-03.2 established, and supporting business implemented, for the use of encryption 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) as per applicate disk/storage) within your environment? X X Encryption & Key Management storage and Access EKM-04.1 Platform and data appropriate encryption (e.g., AES-256) in open/validated formats and standard algorithm shall be required. Keys shall not be stored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or Do you lave platform and data appropriate encryption tage sopen/validated formats and standard algorithms? X X	
Encryption EKM-03.2 processes and technical measures implemented, for the use of encryption protocols for protection of sensitive data in storage (e.g., file servers, data in storage (e.g., file servers, enterfaces, over public networks, and electronic messaging) as per applicable Do you leverage encryption to protect data and virtual machine images during transport across and between networks and hypervisor instances? Do you leverage encryption to protect data and virtual machine images during transport across and between networks and hypervisor instances? Do you leverage encryption to protect data and virtual machine images during transport across and between networks and hypervisor instances? Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? Do you have platform and data appropriate encryption (e.g., AES-256) in open/validated formats and standard algorithms shall be required. Keys shall not be stored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or a trusted key management X X	
Encryption & Key EKM-04.1 EKM-04.2 Patrom and data appropriate encryption (e.g., state appropriate	3DGIS uses third party CSP.
Encryption & Key Management Storage and Access EKM-04.2 Do you have blatform and data appropriate encryption (e.g., AES-256) in open/validated formats and standard algorithms shall be required. Keys shall not be stored in the cloud (i.e. at the cloud crosumer or maintained by the cloud consumer or provider? Do you have platform and data appropriate encryption (keys maintained by the cloud consumer or provider? X X	3DGIS uses third party CSP.
EKM-03.3 databases, and end-user workstations, and data in transmission (e.g., system interfaces, over public networks, and electronic messaging) as per applicable Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? Encryption & Key Management Storage and Access EKM-04.1 Platform and data appropriate encryption (e.g., AES-256) in open/validated formats and standard algorithm shall be required. Keys shall not be stored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? X X	3DGIS uses third party CSP.
Encryption & Key Management Storage and Access EKM-04. EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 EKM-04.1 Day to be stored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines? Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms shall be required. Key shall cloud provider in question), but maintained by the cloud consumer or Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms? X X	
Encryption & Key Management Storage and Access EKM-04.1 Platform and data appropriate encryption (e.g., AES-256) in open/validated formats and standard algorithms shall be required. Key shall Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms? Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms? Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms? X X	
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Management Storage and Access encryption (e.g., AES-256) in open/validated formats and standard algorithms shall be required. Keys shall Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms? X EKM-04.2 not be stored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or Are your encryption keys maintained by the cloud consumer or a trusted key management provider? X	
Storage and Access open/validated formats and standard algorithms shall be required. Keys shall not be stored in the cloud (i.e. at the cloud provider in question), but maintained by the cloud consumer or and standard algorithms? X	
EKM-04.2 not be stored in the cloud (i.e. at the cloud (i.e. at the cloud consumer or a trusted key management maintained by the cloud consumer or a trusted key management provider? X	
cloud provider in question), but cloud consumer or a trusted key management X provider?	
provider?	
	Public keys are stored in
	production environments.
	Private keys are stored on a
	private offline store.
EKM-04.4 Do you have separate key management and	
key usage duties?	
Governance and GRM-01 GRM-01.1 Baseline security requirements shall be Do you have documented information security	3DGIS uses third party CSP.
Risk Management established for developed or acquired, haselines for every component of your	
Baseline organizationally-owned or managed, physical or virtual, applications and Discretion of occupy of the opport of your X	
systems, routers, DNS servers, etc.)?	
	3DGIS uses third party CSP.
applicable legal, statutory, and monitor and report the compliance of your X	
regulatory compliance obligations. infrastructure against your information Deviations from standard baseline security baselines?	
Governance and GRM-02 GRM-02 I Risk assessments associated with data	
Risk Management Does your organization's risk assessments take	
Risk Assessments conducted at planned intervals and the lange of the l	
shall consider the following:	
Awareness of where sensitive data is GRM-02.2 stored and transmitted across Do you conduct risk assessments associated	
applications, databases, servers, and with data governance requirements at least X	
network infrastructure once a year?	
Governance and GRM-03 GRM-03.1 Managers are responsible for Are your technical, business, and executive	
Risk Management maintaining awareness of, and managers responsible for maintaining Management complying with, security policies, awareness of and compliance with security	
Oversight procedures and standards that are policies procedures and standards for both	
relevant to their area of responsibility. themselves and their employees as they X	
pertain to the manager and employees' area of	
responsibility?	
Governance and GRM-04 GRM-04.1 An Information Security Management	
Risk Management Program (ISMP) shall be developed, Do you provide tenants with documentation describing your Information Security X	
Monagement documented, approved, and Management Program (ISMP)?	
Program implemented that includes implemented that includes GRM-04.2 administrative, technical, and physical Do you review your Information Security	
safeguards to protect assets and data Management Program (ISMP) at least once a X	
from loss, misuse, unauthorized access, year?	
Governance and GRM-05 GRM-05.1 Executive and line management shall Do executive and line management take	
Risk Management take formal action to support information security through clearly- Do Executive and the information generative data formal action to support information security	
Support / documented direction and through clearly-documented direction and X	
Involvement commitment, and shall ensure the	
action has been assigned.	
Governance and GRM-06 GRM-06.1 Information security policies and Are your information security policies and Are your information security policies and	
Kisk Management procedures shall be established and procedures made available to all impacted procedures made available to all impact and procedures and procedures made available to all impact and procedures made available to all impact and procedures and procedures made available to all impact and procedures and procedures and procedures made available to all impact and procedures	
impacted personnel and external personnel and business partners, authorized	
business relationships. Information by accountable business role/function and X supported by the information security	
security policies must be authorized by management program as per industry best	
the organization's business leadership (or other accountable business role or	
GRM-06.2 function) and supported by a strategic	
business plan and an information Are information security policies authorized by	
security management program the organization's business leadership (or	
inclusive of defined information other accountable business role or function) security roles and responsibilities for and supported by a strategic business plan and X	
security roles and responsibilities for and supported by a strategic business plan and X business leadership. an information security management program	1
inclusive of defined information security management program	
and responsibilities for business leadership?	

1							1
		GRM-06.3		Do you have agreements to ensure your providers adhere to your information security and privacy policies?		х	
		GRM-06.4		Can you provide evidence of due diligence mapping of your controls, architecture, and processes to regulations and/or standards?		х	
		GRM-06.5		Do you disclose which controls, standards, certifications, and/or regulations you comply with?	x		
Governance and Risk Management Policy Enforcement	GRM-07	GRM-07.1	A formal disciplinary or sanction policy shall be established for employees who have violated security policies and	Is a formal disciplinary or sanction policy established for employees who have violated security policies and procedures?	х		
		GRM-07.2	procedures. Employees shall be made aware of what action might be taken in the event of a violation, and disciplinary measures must be stated in	Are employees made aware of what actions could be taken in the event of a violation via their policies and procedures?	х		
Governance and Risk Management Business / Policy Change Impacts	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?	х		
Governance and Risk Management Policy Reviews	GRM-09	GRM-09.1	The organization's business leadership (or other accountable business role or function) shall review the information security policy at planned intervals or	Do you notify your tenants when you make material changes to your information security and/or privacy policies?	x		
		GRM-09.2	as a result of changes to the organization to ensure its continuing alignment with the security strategy,	Do you perform, at minimum, annual reviews to your privacy and security policies?	х		
Governance and Risk Management Assessments	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 conjunction with any changes to information systems) to determine the	Are formal risk assessments aligned with the enterprise-wide framework and performed at least annually, or at planned intervals, determining the likelihood and impact of all identified risks, using qualitative and quantitative methods?	x		
		GRM-10.2	likelihood and impact of all identified risks using qualitative and quantitative methods. The likelihood and impact associated with inherent and residual	Is the likelihood and impact associated with inherent and residual risk determined independently, considering all risk categories?	х		
Governance and Risk Management	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?	х		
Program		GRM-11.2	based on risk criteria shall be established and documented in accordance with reasonable resolution	Do you make available documentation of your organization-wide risk management program?	х		On request after signing NDA.
Human Resources Asset Returns	HRS-01	HRS-01.1	Upon termination of workforce personnel and/or expiration of external business relationships, all organizationally-owned assets shall be returned within an established period.	Upon termination of contract or business relationship, are employees and business partners adequately informed of their obligations for returning organizationally- owned assets?	x		
		HRS-01.2		Do you have asset return procedures outlining how assets should be returned within an established period?	x		
Human Resources Background Screening	HRS-02	HRS-02.1	Pursuant to local laws, regulations, ethics, and contractual constraints, all employment candidates, contractors, and third parties shall be subject to background verification proportional to the data classification to be accessed, the business requirements, and acceptable risk.	Pursuant to local laws, regulations, ethics, and	x		
Human Resources Employment Agreements	HRS-03	HRS-03.1	Employment agreements shall incorporate provisions and/or terms for adherence to established information governance and security policies and must be signed by newly hired or on- boarded workforce personnel (e.g., full	Do your employment agreements incorporate provisions and/or terms in adherence to established information governance and security policies?	x		
		HRS-03.2	or part-time employee or contingent staff) prior to granting workforce personnel user access to corporate facilities, resources, and assets.	Do you require that employment agreements are signed by newly hired or on-boarded workforce personnel prior to granting workforce personnel user access to corporate facilities, resources, and assets?	х		
Human Resources Employment Termination	HRS-04	HRS-04.1	change in employment procedures	Are documented policies, procedures, and guidelines in place to govern change in employment and/or termination?	x		
		HRS-04.2	shall be assigned, documented, and communicated.	Do the above procedures and guidelines account for timely revocation of access and return of assets?	x		

Human Resources Portable / Mobile Devices	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 compensating controls and acceptable-use policies and procedures (e.g., mandated security training, stronger identity, entitlement and access controls, and device monitoring).	Are policies and procedures established and measures implemented to strictly limit access to your sensitive data and tenant 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)?	x		
Human Resources Non-Disclosure Agreements	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 planned intervals.	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?	x		
Human Resources Roles / Responsibilities	HRS-07	HRS-07.1	Roles and responsibilities of contractors, employees, and third- party users shall be documented as they relate to information assets and security.	Do you provide tenants with a role definition document clarifying your administrative responsibilities versus those of the tenant?	x		
Human Resources Acceptable Use	HRS-08	HRS-08.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, for defining allowances and conditions for permitting usage of organizationally-owned or managed	Do you have policies and procedures in place to define allowances and conditions for permitting usage of organizationally-owned or managed user end-point devices and IT infrastructure network and systems components?	x		
		HRS-08.2	user end-point devices (e.g., issued workstations, laptops, and mobile devices) and IT infrastructure network	Do you define allowance and conditions for BYOD devices and its applications to access corporate resources?	x		
Human Resources Training / Awareness	HRS-09	HRS-09.1	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	Do you provide a formal, role-based, security awareness training program for cloud-related access and data management issues (e.g., multi-tenancy, nationality, cloud delivery model, segregation of duties implications, and conflicts of interest) for all persons with access to tenant data?	x		
		HRS-09.2	procedures, processes, and policies relating to their professional function relative to the organization.	Do you specifically train your employees regarding their specific role and the information security controls they must fulfill?	x		
		HRS-09.3		Do you document employee acknowledgment of training they have completed?	x		Training is tracked using quality system under ISO 9001:2015
		HRS-09.4		Is successful and timed completion of the training program(s) considered a prerequisite for acquiring and maintaining access to sensitive systems?	x		5001.2015
		HRS-09.5		Are personnel trained and provided with awareness programs at least once a year?	x		
		HRS-09.6		Are administrators and data stewards properly educated on their legal responsibilities with regard to security and data integrity?	x		
Human Resources User Responsibility	HRS-10	HRS-10.1	All personnel shall be made aware of their roles and responsibilities for: • Maintaining awareness and compliance with established policies and procedures and applicable legal, statutory, or regulatory compliance	Are personnel informed of their responsibilities for maintaining awareness and compliance with published security policies, procedures, standards, and applicable regulatory requirements?	x		
		HRS-10.2	obligations. • Maintaining a safe and secure working environment	Are personnel informed of their responsibilities for maintaining a safe and secure working environment?	x		
		HRS-10.3		Are personnel informed of their responsibilities for ensuring that equipment is secured and not left unattended?	x		
Human Resources Workspace	HRS-11	HRS-11.1	Policies and procedures shall be established to require that unattended workspaces do not have openly visible	Are all computers and laptops configured such that there is lockout screen after a pre-defined amount of time?	x		
		HRS-11.2	(e.g., on a desktop) sensitive documents and user computing sessions had been disabled after an established period of inactivity.	Are there policies and procedures to ensure that unattended workspaces do not have openly visible (e.g., on a desktop) sensitive documents?	x		
Identity & Access Management Audit Tools Access	IAM-01	IAM-01.1 IAM-01.2	Access to, and use of, audit tools that interact with the organization's information systems shall be appropriately segmented and restricted to prevent compromise and misuse of log data.	Do you restrict, log, and monitor access to your information security management systems (e.g., hypervisors, firewalls, vulnerability scanners, network sniffers, APIs, etc.)? Do you monitor and log privileged access (e.g.,	x		
				administrator level) to information security management systems?	x		
Identity & Access Management User Access Policy	IAM-02	IAM-02.1	User access policies and procedures shall be established, and supporting business processes and technical measures implemented, for ensuring	Do you have controls in place ensuring timely removal of systems access that is no longer required for business purposes?	x		

		IAM-02.2	appropriate identity, entitlement, and access management for all internal corporate and customer (tenant) users with access to data and organizationally-owned or managed (physical and virtual) application	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?	x			
		IAM-02.3	interfaces and infrastructure network and systems components. These policies, procedures, processes, and measures must incorporate the	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	following: • Procedures, supporting roles, and responsibilities for provisioning and de- provisioning user account entitlements	Do you have procedures and technical measures in place for data access segmentation in multi-tenant system architectures?	x			
		IAM-02.5	following the rule of least privilege based on job function (e.g., internal employee and contingent staff	Do you enforce data access permissions based on the rules of Authentication, Authorization and Accountability (AAA)?	х			
		IAM-02.6	personnel changes, customer- controlled access, suppliers' business relationships, or other third-party business relationships) • Business case considerations for	Do your policies and procedures incorporate security controls for establishing higher levels of assurance for critical business case considerations, supported by multifactor authentication?		x		2FA is planned for deployment in the future.
		IAM-02.7	higher levels of assurance and multi- factor authentication secrets (e.g., management interfaces, key generation, remote access, segregation	Do you provide metrics to track the speed with which you are able to remove systems access that is no longer required for business purposes?	x			Users permissions changes are tracked with date and time.
Identity & Access Management Diagnostic / Configuration Ports Access	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?	х			
Identity & Access Management Policies and Procedures	IAM-04	IAM-04.1	Policies and procedures shall be established to store and manage identity information about every person who accesses IT infrastructure	Do you manage and store the identity of all personnel who have access to the IT infrastructure, including their level of access?	х			
		IAM-04.2	and to determine their level of access. Policies shall also be developed to control access to network resources based on user identity.	Do you manage and store the user identity of all personnel who have network access, including their level of access?	x			
Identity & Access Management Segregation of Duties	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?	x			Under specific NDA signature.
Identity & Access Management Source Code Access Restriction	IAM-06	IAM-06.1	Access to the organization's own developed applications, program, or object source code, or any other form of intellectual property (IP), and use of proprietary software shall be	Are controls in place to prevent unauthorized access to your application, program, or object source code, and assure it is restricted to authorized personnel only?	x			
		IAM-06.2	appropriately restricted following the rule of least privilege based on job function as per established user access policies and procedures.	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?	х			Access is based on need-to- know policy
Identity & Access Management Third Party Access	IAM-07	IAM-07.1	The identification, assessment, and prioritization of risks posed by business processes requiring third-party access	Does your organization conduct third-party unauthorized access risk assessments?		х		
		IAM-07.2	to the organization's information systems and data shall be followed by	Are preventive, detective corrective compensating controls in place to mitigate impacts of unauthorized or inappropraite access?	x			
Identity & Access Management User Access Restriction / Authorization	IAM-08	IAM-08.1	Policies and procedures are established for permissible storage and access of identities used for authentication to ensure identities are only accessible based on rules of least privilege and	Do you document how you grant, approve and enforce access restrictions to tenant/customer credentials following the rules of least privilege?			x	Tenants setups their own access rules in software solutions and are restricted to their own data.
		IAM-08.2	replication limitation only to users explicitly defined as business necessary.	Based on the rules of least privilege, do you have policies and procedures established for permissible storage and access of identities used for authentication?	x			
		IAM-08.3		Do you limit identities' replication only to users explicitly defined as business necessary?	x			
Identity & Access Management User Access Authorization	IAM-09	IAM-09.1		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) applications, infrastructure systems, and network components?	x			
		IAM-09.2	organization's management prior to access being granted and appropriately restricted as per established policies and procedures. Upon request, provider shall inform customer (tenant) of this user access, especially if customer (tenant) data is used as part of the service and/or customer (tenant)	Do you provide upon the request of users with legitimate interest access (e.g., employees, contractors, customers (tenants), business partners and/or suppliers) to data and any owned or managed (physical and virtual) applications, infrastructure systems and network components?			x	Tenants can autonomously configure users and permissions. 3DGIS must be authorized in order to access customer data.

Identity & Access Management User Access Reviews	IAM-10	IAM-10.1	User access shall be authorized and revalidated for entitlement appropriateness, at planned intervals, by the organization's business leadership or other accountable business role or function supported by evidence to demonstrate the organization is adhering to the rule of	Do you require a periodical authorization and validation (e.g. at least annually) of the entitlements for all system users and administrators (exclusive of users maintained by your tenants), based on the rule of least privilege, by business leadership or other accountable business role or function?	x			Authorizations are evaluated periodically and revoked accordingly.
		IAM-10.2	For identified access violations, remediation must follow established	Do you collect evidence to demonstrate that the policy (see question IAM-10.1) has been enforced?	x			Log collection.
		IAM-10.3	user access policies and procedures.	Do you ensure that remediation actions for access violations follow user access policies?	x			
		IAM-10.4		Will you share user entitlement and remediation reports with your tenants, if inappropriate access may have been allowed to tenant data?	x			
Identity & Access Management User Access Revocation	IAM-11	IAM-11.1	Timely de-provisioning (revocation or modification) of user access to data and organizationally-owned or managed (physical and virtual) applications, infrastructure systems, and network components, shall be implemented as per established	Is timely deprovisioning, revocation, or modification of user access to the organizations systems, information assets, and data implemented upon any change in status of employees, contractors, customers, business partners, or involved third parties?	x			
		IAM-11.2	policies and procedures and based on user's change in status (e.g., termination of employment or other business relationship, job change, or transfer). Upon request, provider shall	Is any change in user access status intended to include termination of employment, contract or agreement, change of employment or transfer within the organization?	x			
Identity & Access Management User ID Credentials	IAM-12	IAM-12.1	Internal corporate or customer (tenant) user account credentials shall be restricted as per the following, ensuring	Do you support use of, or integration with, existing customer-based Single Sign On (SSO) solutions to your service?	x			
		IAM-12.2	appropriate identity, entitlement, and access management and in accordance with established policies and	Do you use open standards to delegate authentication capabilities to your tenants?	x			SAML2
		IAM-12.3	procedures: • Identity trust verification and service- to-service application (API) and information processing interoperability	Do you support identity federation standards (e.g., SAML, SPML, WS-Federation, etc.) as a means of authenticating/authorizing users?	x			SAML2
		IAM-12.4	(e.g., SSO and Federation) • Account credential lifecycle management from instantiation through revocation	Do you have a Policy Enforcement Point capability (e.g., XACML) to enforce regional legal and policy constraints on user access?		х		
		IAM-12.5	Account credential and/or identity store minimization or re-use when feasible Adherence to industry acceptable and/or regulatory compliant	Do you have an identity management system (enabling classification of data for a tenant) in place to enable both role-based and context- based entitlement to data?		x		
		IAM-12.6	authentication, authorization, and accounting (AAA) rules (e.g., strong/multi-factor, expireable, non- shared authentication secrets)	Do you provide tenants with strong (multifactor) authentication options (e.g., digital certs, tokens, biometrics, etc.) for user access?		x		2FA is planned for deployment in the future.
		IAM-12.7		Do you allow tenants to use third-party identity assurance services?	x			
		IAM-12.8		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		Do you allow tenants/customers to define password and account lockout policies for their accounts?	x			
		IAM-12.10		Do you support the ability to force password changes upon first logon?	x			
		IAM-12.11		Do you have mechanisms in place for unlocking accounts that have been locked out (e.g., self-service via email, defined challenge questions, manual unlock)?	x			
Identity & Access Management Utility Programs Access	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 monitored?	x			
Infrastructure & Virtualization Security Audit Logging / Intrusion Detection	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	Are file integrity (host) and network intrusion detection (IDS) tools implemented to help facilitate timely detection, investigation by root cause analysis, and response to incidents?			x	3DGIS uses third party CSP.
		IVS-01.2	providing unique user access accountability to detect potentially	Is physical and logical user access to audit logs restricted to authorized personnel?	x			
		IVS-01.3	suspicious network behaviors and/or file integrity anomalies, and to support forensic investigative capabilities in the event of a security breach.	Can you provide evidence that due diligence mapping of regulations and standards to your controls/architecture/processes has been performed?	x			
		IVS-01.4		Are audit logs centrally stored and retained?	x			
		IVS-01.5			<u> </u>		1	

Infrastructure & Virtualization	IVS-02	IVS-02.1	The provider shall ensure the integrity of all virtual machine images at all	Do you log and alert any changes made to			3DGIS uses third party CSP.
Security Change Detection			times. Any changes made to virtual machine images must be logged and an	virtual machine images regardless of their running state (e.g., dormant, off or running)?		×	
		IVS-02.2	alert raised regardless of their running state (e.g., dormant, off, or running). The results of a change or move of an image and the subsequent validation of the image's integrity must be	Does the virtual machine management infrastructure include a tamper audit or software integrity function to detect changes to the build/configuration of the virtual machine?		x	3DGIS uses third party CSP.
		IVS-02.3	immediately available to customers through electronic methods (e.g., portals or alerts).	Are changes made to virtual machines, or moving of an image and subsequent validation of the image's integrity, made immediately available to customers through electronic methods (e.g., portals or alerts)?		x	3DGIS uses third party CSP.
nfrastructure & Virtualization Security Clock Synchronization	IVS-03	IVS-03.1	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.	Do you use a synchronized time-service protocol (e.g., NTP) to ensure all systems have a common time reference?	x		
Infrastructure & Virtualization Security Capacity / Resource Planning	IVS-04	IVS-04.1	The availability, quality, and adequate capacity and resources shall be planned, prepared, and measured to deliver the required system performance in accordance with legal,	Do you provide documentation regarding what levels of system (e.g., network, storage, memory, I/O, etc.) oversubscription you maintain and under what circumstances/scenarios?		x	3DGIS uses third party CSP.
		IVS-04.2	statutory, and regulatory compliance obligations. Projections of future capacity requirements shall be made to mitigate the risk of system overload.	Do you restrict use of the memory oversubscription capabilities present in the hypervisor?		x	3DGIS uses third party CSP.
		IVS-04.3		Does your system's capacity requirements take into account current, projected, and anticipated capacity needs for all systems used to provide services to the tenants?	x		
		IVS-04.4		Is system performance monitored and tuned in order to continuously meet regulatory, contractual, and business requirements for all the systems used to provide services to the tenants?	x		
Infrastructure & Virtualization Security Management - Vulnerability Management	IVS-05	IVS-05.1	Implementers shall ensure that the security vulnerability assessment tools or services accommodate the virtualization technologies used (e.g., virtualization aware).	Do security vulnerability assessment tools or services accommodate the virtualization technologies being used (e.g., virtualization aware)?		x	3DGIS uses third party CSP.
Infrastructure & Virtualization Security Network Security	IVS-06	IVS-06.1	Network environments and virtual instances shall be designed and configured to restrict and monitor traffic between trusted and untrusted connections. These configurations shall	For your laaS offering, do you provide customers with guidance on how to create a layered security architecture equivalence using your virtualized solution?		x	3DGIS uses third party CSP.
		IVS-06.2	be reviewed at least annually, and supported by a documented justification for use for all allowed	Do you regularly update network architecture diagrams that include data flows between security domains/zones?		x	3DGIS uses third party CSP.
		IVS-06.3	services, protocols, ports, and compensating controls.	Do you regularly review for appropriateness the allowed access/connectivity (e.g., firewall rules) between security domains/zones within the network?		x	3DGIS uses third party CSP.
		IVS-06.4		Are all firewall access control lists documented with business justification?		x	3DGIS uses third party CSP.
Infrastructure & Virtualization Security OS Hardening and Base Controls	IVS-07	IVS-07.1	Each operating system shall be hardened to provide only necessary ports, protocols, and services to meet business needs and have in place supporting technical controls such as: antivirus, file integrity monitoring, and logging as part of their baseline operating build standard or template.	Are operating systems hardened to provide only the necessary ports, protocols, and services to meet business needs using technical controls (e.g., antivirus, file integrity monitoring, and logging) as part of their baseline build standard or template?	x		
Infrastructure & Virtualization Security Production / Non-	IVS-08	IVS-08.1	Production and non-production environments shall be separated to prevent unauthorized access or changes to information assets.	For your SaaS or PaaS offering, do you provide tenants with separate environments for production and test processes?	x		Only SaaS offered.
Production Environments		IVS-08.2	Separation of the environments may include: stateful inspection firewalls, domain/realm authentication sources, and clear segregation of duties for	For your laaS offering, do you provide tenants with guidance on how to create suitable production and test environments?		x	No laaS.
		IVS-08.3	personnel accessing these environments as part of their job duties.	Do you logically and physically segregate production and non-production environments?	x		
Infrastructure & Virtualization Security Segmentation	IVS-09	IVS-09.1	managed (physical and virtual) applications, and infrastructure system and network components, shall be	Are system and network environments protected by a firewall or virtual firewall to ensure business and customer security requirements?	x		
		IVS-09.2	designed, developed, deployed, and configured such that provider and customer (tenant) user access is appropriately segmented from other	Are system and network environments protected by a firewall or virtual firewall to ensure compliance with legal, regulatory and contractual requirements?	x		

		IVS-09.3	tenant users, based on the following	Have you implemented the necessary	[]			Tenants have not access to
			considerations: • Established policies and procedures • Isolation of business critical assets and/or sensitive user data and sessions that mandate stronger internal controls and high levels of assurance	nave you implemented the necessary measures for the appropriate isolation and segmentation of tenants' access to infrastructure system and network components, in adherence to established policies, legal, statutory, and regulatory compliance obligations?			x	the infrastructure.
		IVS-09.4	 Compliance with legal, statutory, and regulatory compliance obligations 	Do you have the ability to logically segment or encrypt customer data such that data may be produced for a single tenant only, without inadvertently accessing another tenant's data?		х		
		IVS-09.5		Are system and network environments protected by a firewall or virtual firewall to ensure protection and isolation of sensitive data?	x			
nfrastructure & /irtualization Security /M Security - Data	IVS-10	IVS-10.1	Secured and encrypted communication channels shall be used when migrating physical servers, applications, or data to virtualized servers and, where	Are secured and encrypted communication channels used when migrating physical servers, applications, or data to virtual servers?	x			
		IVS-10.2	possible, shall use a network segregated from production-level networks for such migrations.	Do you use a network segregated from production-level networks when migrating physical servers, applications, or data to virtual servers?	x			
Infrastructure & Virtualization Security VMM Security - Hypervisor Hardening	IVS-11	IVS-11.1	Access to all hypervisor management functions or administrative consoles for systems hosting virtualized systems shall be restricted to personnel based upon the principle of least privilege and supported through technical controls (e.g., two-factor authentication, audit trails, IP address filtering, firewalls, and TLS encapsulated communications to the administrative consoles).	Do you restrict personnel access to all hypervisor management functions or administrative consoles for systems hosting virtualized systems based on the principle of least privilege and supported through technical controls (e.g., two-factor authentication, audit trails, IP address filtering, firewalls and TLS-encapsulated communications to the administrative consoles)?	x			
Infrastructure & Virtualization Security Wireless Security	IVS-12	IVS-12.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, to protect wireless network environments, including the	Are policies and procedures established and mechanisms configured and implemented to protect the wireless network environment perimeter and to restrict unauthorized wireless traffic?	x			
		IVS-12.2	following: • Perimeter firewalls implemented and configured to restrict unauthorized traffic • Security settings enabled with strong encryption for authentication and transmission, replacing vendor default	Are policies and procedures established and mechanisms implemented to ensure wireless security settings are enabled with strong encryption for authentication and transmission, replacing vendor default settings (e.g., encryption keys, passwords, SNMP community strings)?	x			
		IVS-12.3	settings (e.g., encryption keys, passwords, and SNMP community strings) • User access to wireless network devices restricted to authorized personnel	Are policies and procedures established and mechanisms implemented to protect wireless network environments and detect the presence of unauthorized (rogue) network devices for a timely disconnect from the network?	x			
Infrastructure & Virtualization Security Network	IVS-13	IVS-13.1	Network architecture diagrams shall clearly identify high-risk environments and data flows that may have legal compliance impacts. Technical	Do your network architecture diagrams clearly identify high-risk environments and data flows that may have legal compliance impacts?	x			
		IVS-13.2	measures shall be implemented and shall apply defense-in-depth techniques (e.g., deep packet analysis, traffic throttling, and black-holing) for detection and timely response to network-based attacks associated with anomalous ingress or egress traffic patterns (e.g., MAC spoofing and ARP poisoning attacks) and/or distributed denial-of-service (DDOS) attacks.	Do you implement technical measures and apply defense-in-depth techniques (e.g., deep packet analysis, traffic throttling and black- holing) for detection and timely response to network-based attacks associated with anomalous ingress or egress traffic patterns (e.g., MAC spoofing and ARP poisoning attacks) and/or distributed denial-of-service (DDoS) attacks?		x		
Interoperability & Portability APIs	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.	Do you publish a list of all APIs available in the service and indicate which are standard and which are customized?		х		
nteroperability & Portability Data Request	IPY-02	IPY-02.1	All structured and unstructured data shall be available to the customer and provided to them upon request in an industry-standard format (e.g., .doc, .xls, .pdf, logs, and flat files).	Is unstructured customer data available on request in an industry-standard format (e.g., .doc, .xls, or .pdf)?	x			
nteroperability & Portability Policy & Legal	IPY-03	IPY-03.1	Policies, procedures, and mutually- agreed upon provisions and/or terms shall be established to satisfy customer (tenant) requirements for service-to- service application (API) and	Do you provide policies and procedures (i.e. service level agreements) governing the use of APIs for interoperability between your service and third-party applications?	x			
		IPY-03.2	information processing interoperability, and portability for application development and information exchange, usage, and integrity	If using virtual infrastructure, do you allow virtual machine images to be downloaded and ported to a new cloud provider?		х		
		IPY-03.3	persistence.	Do you provide policies and procedures (i.e. service level agreements) governing the migration of application data to and from your service?	x			

Interoperability & Portability Standardized Network Protocols	IPY-04	IPY-04.1	The provider shall use secure (e.g., non- clear text and authenticated) standardized network protocols for the import and export of data and to	Is data import, data export, and service management be conducted over secure (e.g., non-clear text and authenticated), industry accepted standardized network protocols?	x			
		IPY-04.2	manage the service, and shall make available a document to consumers (tenants) detailing the relevant interoperability and portability standards that are involved.	Do you provide consumers (tenants) with documentation detailing the relevant interoperability and portability network protocol standards that are involved?	x			
Interoperability & Portability Virtualization	IPY-05	IPY-05.1	The provider shall use an industry- recognized virtualization platform and standard virtualization formats (e.g., OVF) to help ensure interoperability,	Do you use an industry-recognized virtualization platform and standard virtualization formats (e.g., OVF) to help ensure interoperability?		x		
		IPY-05.2	and shall have documented custom changes made to any hypervisor in use, and all solution-specific virtualization hooks, available for customer review.	If using virtual infrastructure, are machine images made available to the customer in a way that would allow the customer to replicate those images in their own off-site storage location?			x	
		IPY-05.3		Do you have documented custom changes made to any hypervisor in use, and all solution- specific virtualization hooks available for customer review?			x	
Mobile Security Anti-Malware	MOS-01	MOS-01.1	Anti-malware awareness training, specific to mobile devices, shall be 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?	x			
Mobile Security Application Stores	MOS-02	MOS-02.1	A documented list of approved application stores has been communicated as acceptable for mobile devices accessing or storing provider managed data.	Do you document and make available lists of approved application stores for mobile devices accessing or storing company data and/or company systems?	x			
Mobile Security Approved Applications	MOS-03	MOS-03.1	The company shall have a documented policy prohibiting the installation of non-approved applications or approved applications not obtained through a pre identified application store.			x		
Mobile Security Approved Software for BYOD	MOS-04	MOS-04.1	The BYOD policy and supporting awareness training clearly states the approved applications, application stores, and application extensions and plugins that may be used for BYOD usage.	Does your BYOD policy and training clearly state which applications and applications stores are approved for use on BYOD devices?		x		No BYOD is allowed.
Mobile Security Awareness and Training	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 provider shall post and communicate the policy and requirements through the company's security awareness and training program.	Do you have a documented mobile device policy in your employee training that clearly defines mobile devices and the accepted usage and requirements for mobile devices?	x			
Mobile Security Cloud Based Services	MOS-06	MOS-06.1	All cloud-based services used by the company's mobile devices or BYOD shall be pre-approved for usage and the storage of company business data.	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?	x			
Mobile Security Compatibility	MOS-07	MOS-07.1	The company shall have a documented application validation process to test for mobile device, operating system, and application compatibility issues.	Do you have a documented application validation process for testing device, operating system, and application compatibility issues?	x			
Mobile Security Device Eligibility	MOS-08	MOS-08.1	BYOD usage.	Do you have a BYOD policy that defines the device(s) and eligibility requirements allowed for BYOD usage?			x	
Mobile Security Device Inventory	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 decommissioned status, and to whom the device is assigned or approved for usage (BYOD)), will be included for each device in the inventory.	Do you maintain an inventory of all mobile devices storing and accessing company data which includes device status (e.g., operating system and patch levels, lost or decommissioned, device assignee)?	x			
Mobile Security Device Management	MOS-10	MOS-10.1	A centralized, mobile device management solution shall be deployed to all mobile devices permitted to store, transmit, or process customer data.	Do you have a centralized mobile device management solution deployed to all mobile devices that are permitted to store, transmit, or process company data?		x		
Mobile Security Encryption	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 devices and shall be enforced through technology controls.	Does your mobile device policy require the use of encryption for either the entire device or for data identified as sensitive enforceable through technology controls for all mobile devices?	x			Only for specific application and corporate email.

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Mobile Security Jailbreaking and Rooting	MOS-12	MOS-12.1	The mobile device policy shall prohibit the circumvention of built-in security controls on mobile devices (e.g.,	Does your mobile device policy prohibit the circumvention of built-in security controls on mobile devices (e.g., jailbreaking or rooting)?	x			
		MOS-12.2	jailbreaking or rooting) and is enforced through detective and preventative controls on the device or through a	Do you have detective and preventative				
			centralized device management system (e.g., mobile device management).	controls on the device or via a centralized device management system which prohibit the circumvention of built-in security controls?		х		
Nobile Security Legal	MOS-13	MOS-13.1	The BYOD policy includes clarifying language for the expectation of privacy, requirements for litigation, e-discovery,	Does your BYOD policy clearly define the expectation of privacy, requirements for litigation, e-discovery, and legal holds?			x	No BYOD is allowed.
		MOS-13.2	and legal holds. The BYOD policy shall clearly state the expectations over the loss of non-company data in the case that a wipe of the device is required.	Does the BYOD policy clearly state the expectations over the loss of non-company data in case a wipe of the device is required?			х	No BYOD is allowed.
Nobile Security ockout Screen	MOS-14	MOS-14.1	BYOD and/or company owned devices	Do you require and enforce via technical controls an automatic lockout screen for BYOD and company owned devices?			х	No BYOD is allowed.
Mobile Security Operating Systems	MOS-15	MOS-15.1	Changes to mobile device operating systems, patch levels, and/or applications shall be managed through the company's change management processes.	Do you manage all changes to mobile device operating systems, patch levels, and applications via your company's change management processes?		x		
Nobile Security Passwords	MOS-16	MOS-16.1	devices, shall be documented and enforced through technical controls on	Do you have password policies for enterprise issued mobile devices and/or BYOD mobile devices?	х			
		MOS-16.2	all company devices or devices approved for BYOD usage, and shall	Are your password policies enforced through technical controls (i.e. MDM)?		х		
		MOS-16.3	prohibit the changing of password/PIN lengths and authentication requirements.	Do your password policies prohibit the changing of authentication requirements (i.e. password/PIN length) via a mobile device?		x		
Nobile Security Policy	MOS-17	MOS-17.1	The mobile device policy shall require the BYOD user to perform backups of data, prohibit the usage of unapproved	Do you have a policy that requires BYOD users to perform backups of specified corporate data?			x	No BYOD is allowed.
		MOS-17.2	application stores, and require the use of anti-malware software (where supported).	Do you have a policy that requires BYOD users to prohibit the usage of unapproved application stores?			x	No BYOD is allowed.
		MOS-17.3		Do you have a policy that requires BYOD users to use anti-malware software (where supported)?			x	
Mobile Security Remote Wipe	MOS-18	MOS-18.1	All mobile devices permitted for use through the company BYOD program or a company-assigned mobile device	Does your IT provide remote wipe or corporate data wipe for all company-accepted BYOD devices?			х	No BYOD is allowed.
		MOS-18.2	shall allow for remote wipe by the	Does your IT provide remote wipe or corporate data wipe for all company-assigned mobile devices?		x		
Mobile Security Security Patches	MOS-19	MOS-19.1	Mobile devices connecting to corporate networks or storing and accessing company information shall allow for remote software version/patch		x			
		MOS-19.2	the latest available security-related	Do your mobile devices allow for remote validation to download the latest security patches by company IT personnel?		х		
Mobile Security Jsers	MOS-20	MOS-20 MOS-20.1	The BYOD policy shall clarify the	Does your BYOD policy clarify the systems and servers allowed for use or access on the BYOD- enabled device?			х	No BYOD is allowed.
		MOS-20.2		Does your BYOD policy specify the user roles that are allowed access via a BYOD-enabled device?			Х	No BYOD is allowed.
Security Incident Management, E- Discovery, & Cloud Forensics Contact / Authority Maintenance	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 enforcement.	Do you maintain liaisons and points of contact with local authorities in accordance with contracts and appropriate regulations?	x			
ecurity Incident Management, E-	SEF-02	SEF-02.1	Policies and procedures shall be established, and supporting business	Do you have a documented security incident response plan?		x		3DGIS is looking forward to implement ISO 27001
Discovery, & Cloud Forensics Incident		SEF-02.2	processes and technical measures implemented, to triage security-related events and ensure timely and thorough	Do you integrate customized tenant requirements into your security incident response plans?		х		3DGIS is looking forward to implement ISO 27001
Management		SEF-02.3	incident management, 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		х		3DGIS is looking forward to
		SEF-02.4		incidents? Have you tested your security incident response plans in the last year?		x		implement ISO 27001 3DGIS is looking forward to implement ISO 27001

Security Incident Management, E- Discovery, & Cloud Forensics Incident Reporting		SEF-03.1	Workforce personnel and external business relationships shall be informed of their responsibility and, if required, shall consent and/or contractually agree to report all information security events in a timely	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	manner. Information security events shall be reported through predefined communications channels in a timely manner adhering to applicable legal, statutory, or regulatory compliance	Do you have predefined communication channels for workforce personnel and external business partners to report incidents in a timely manner adhering to applicable legal, statutory, or regulatory compliance		x		
Security Incident Management, E- Discovery, & Cloud Forensics	SEF-04	SEF-04.1	Proper forensic procedures, including chain of custody, are required for the presentation of evidence to support potential legal action subject to the	Does your incident response plan comply with industry standards for legally admissible chain- of-custody management processes and controls?		х		
Incident Response Legal Preparation		SEF-04.2	notification, customers and/or other	Does your incident response capability include the use of legally admissible forensic data collection and analysis techniques?		х		
		SEF-04.3	a security breach shall be given the opportunity 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?	x			
		SEF-04.4		Do you enforce and attest to tenant data separation when producing data in response to legal subpoenas?	x			
Security Incident Management, E- Discovery, & Cloud	SEF-05	SEF-05.1	Mechanisms shall be put in place to monitor and quantify the types, volumes, and costs of information	Do you monitor and quantify the types, volumes, and impacts on all information security incidents?	x			
Forensics Incident Response Metrics		SEF-05.2	security incidents.	Will you share statistical information for security incident data with your tenants upon request?	x			After NDA signature.
Supply Chain Management, Transparency, and Accountability	STA-01	STA-01.1	Providers shall inspect, account for, and work with their cloud supply-chain partners to correct data quality errors and associated risks. Providers shall	Do you inspect and account for data quality errors and associated risks, and work with your cloud supply-chain partners to correct them?			х	3DGIS does not depend on data supply chain partners for its services.
Data Quality and Integrity		STA-01.2	design and implement controls to mitigate and contain data security risks through proper separation of duties, role-based access, and least-privilege access for all personnel within their supply chain.	Do you design and implement controls to mitigate and contain data security risks through proper separation of duties, role- based access, and least-privileged access for all personnel within your supply chain?	x			
Supply Chain Management, Transparency, and Accountability Incident Reporting	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			
Supply Chain Management, Transparency, and	STA-03	STA-03 STA-03.1	Business-critical or customer (tenant) impacting (physical and virtual) application and system-system	Do you collect capacity and use data for all relevant components of your cloud service offering?	x			
Accountability Network / Infrastructure Services			interface (API) designs and configurations, and infrastructure network and systems components, shall be designed, developed, and deployed in accordance with mutually arread unce contex and constitutional	Do you provide tenants with capacity planning and use reports?		x		
Supply Chain Management, Transparency, and Accountability Provider Internal Assessments	STA-04	STA-04.1	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			
Supply Chain Management, Transparency, and Accountability	STA-05	STA-05.1	Supply chain agreements (e.g., SLAs) between providers and customers (tenants) shall incorporate at least the following mutually-agreed upon	Do you select and monitor outsourced providers in compliance with laws in the country where the data is processed, stored, and transmitted?	x			
Third Party Agreements		STA-05.2	STA-05.2 provisions and/or terms: • Scope of business relationship and services offered (e.g., customer (tenant) data acquisition, exchange an	Do you select and monitor outsourced providers to ensure that they are in compliance with applicable legislation?	x			
		STA-05.3	usage, feature sets and functionality, personnel and infrastructure network	Does legal counsel review all third-party agreements?		х		
		STA-05.4 and systems components for service delivery and support, roles and responsibilities of provider and	delivery and support, roles and	Do third-party agreements include provision for the security and protection of information and assets?	x			
		STA-05.5	subcontracted or outsourced business	Do you have the capability to recover data for a specific customer in the case of a failure or data loss?	x			
		STA-05.6 location of hosted services, and any known regulatory compliance considerations)	Do you have the capability to restrict the storage of customer data to specific countries or geographic locations?	x				
		STA-05.7	• Information security requirements, provider and customer (tenant) primary points of contact for the	Can you provide the physical location/geography of storage of a tenant's data upon request?	x			
		STA-05.8	duration of the business relationship, and references to detailed supporting and relevant business processes and	Can you provide the physical location/geography of storage of a tenant's data in advance?	x			
		STA-05.9	technical measures implemented to enable effectively governance, risk management, assurance and legal, statutory and regulatory compliance	Do you allow tenants to define acceptable geographical locations for data routing or resource instantiation?	x			
		STA-05.10	obligations by all impacted business relationships • Notification and/or pre-authorization	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	of any changes controlled by the	Do you allow tenants to opt out of having their	1			
		51A-05.11	provider with customer (tenant) impacts	data/metadata accessed via inspection technologies?			х	
		STA-05.12	 Timely notification of a security incident (or confirmed breach) to all customers (tenants) and other business 	Do you provide the client with a list and copies of all subprocessing agreements and keep this updated?			x	
Supply Chain Management, Transparency, and Accountability Supply Chain Governance Reviews	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?	x			
Supply Chain Management, Transparency, and Accountability Supply Chain Metrics	STA-07	STA-07.1	Policies and procedures shall be implemented to ensure the consistent review of service agreements (e.g., SLAS) between providers and customers (tenants) across the relevant supply chain	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)?	x			
		STA-07.2	(upstream/downstream). Reviews shall be performed at least annually and identify non-conformance to established agreements. The reviews	Do you have the ability to measure and address non-conformance of provisions and/or terms across the entire supply chain (upstream/downstream)?	х			
		STA-07.3	should result in actions to address service-level conflicts or inconsistencies resulting from disparate supplier	Can you manage service-level conflicts or inconsistencies resulting from disparate supplier relationships?		х		
		STA-07.4	relationships.	Do you provide tenants with ongoing visibility and reporting of your operational Service Level Agreement (SLA) performance?	x			
		STA-07.5		Do you make standards-based information security metrics (CSA, CAMM, etc.) available to your tenants?		x		
		STA-07.6		Do you provide customers with ongoing visibility and reporting of your SLA performance?	x			
		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?	x			
Supply Chain Management, Transparency, and	STA-08	STA-08.1	Providers shall assure reasonable information security across their information supply chain by performing	Do you assure reasonable information security across your information supply chain by performing an annual review?	x			
Accountability Third Party Assessment		STA-08.2	an annual review. The review shall include all partners/third party providers upon which their information supply chain depends on.	Does your annual review include all partners/third-party providers upon which your information supply chain depends?			х	
Supply Chain Management, Transparency, and Accountability	STA-09	STA-09.1	Third-party service providers shall demonstrate compliance with information security and confidentiality, access control, service	Do you mandate annual information security reviews and audits of your third party providers to ensure that all agreed upon security requirements are met?			х	
Third Party Audits		STA-09.2	definitions, and delivery level agreements included in third-party contracts. Third-party reports, records, and services shall undergo audit and	Do you have external third party services conduct vulnerability scans and periodic penetration tests on your applications and networks?		х		3DGIS uses third party CSP.
Threat and Vulnerability Management Antivirus / Malicious Software	TVM-01	TVM-01.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, to prevent the execution of malware on organizationally-owned	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	or managed user end-point devices (i.e., issued workstations, laptops, and mobile devices) and IT infrastructure network and systems components.	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?	x			
Threat and Vulnerability Management	TVM-02	TVM-02.1	Policies and procedures shall be established, and supporting processes and technical measures implemented,	Do you conduct network-layer vulnerability scans regularly as prescribed by industry best practices?	x			
Vulnerability / Patch Management		TVM-02.2	for timely detection of vulnerabilities within organizationally-owned or managed applications, infrastructure	Do you conduct application-layer vulnerability scans regularly as prescribed by industry best practices?	x			
		TVM-02.3	network and system components (e.g., network vulnerability assessment, penetration testing) to ensure the	Do you conduct local operating system-layer vulnerability scans regularly as prescribed by industry best practices?	х			
		TVM-02.4	efficiency of implemented security controls. A risk-based model for prioritizing remediation of identified	Will you make the results of vulnerability scans available to tenants at their request?	x			After NDA signature.
		TVM-02.5	vulnerabilities shall be used. Changes shall be managed through a change management process for all vendor- supplied patches, configuration	Do you have a capability to patch vulnerabilities across all of your computing devices, applications, and systems?	x			
		TVM-02.6	changes, or changes to the organization's internally developed software. Upon request, the provider informs customer (tenant) of policies and procedures and identified weaknessee sepecially if customer (tenant) data is used as part the service and/or customer (tenant) has some	Do you inform customers (tenant) of policies and procedures and identified weaknesses if customer (tenant) data is used as part the service and/or customer (tenant) has some shared responsibility over implementation of control?	x			

Threat and Vulnerability Management <i>Mobile Code</i>	TVM-03	TVM-03.1	established, and supporting business processes and technical measures implemented, to prevent the execution of unauthorized mobile code, defined	Is mobile code authorized before its installation and use, and the code configuration checked, to ensure that the authorized mobile code operates according to a clearly defined security policy?	х		
		TVM-03.2		Is all unauthorized mobile code prevented from executing?	Х		

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