

INSPECTION PROCEDURES INFORMATION SECURITY & CYBERSECURITY INSPECTION WORK PROGRAM

Key principles					
INFORMATION & CYBERSECURITY INSPECTION WORK PROGRAM					
	The Information security & Cybersecurity inspection work program supports the inspection of the measures implemented by the audit firm ("the firm") to protect the in which includes				
	 the documentation produced by the auditor, and 				
	• the client documentation which has been collected during the audit engagements.				
	The measures in place should ensure the confidentiality, availability and reliability of the information as well as the safe custody, integrity, accessibility or retrievability of the				
Scope					
	All IT functions and systems that are required for quality management and statutory audits, including IT infrastructure (e.g. Data Centers, networks, IT platforms), systems and applications (e.g. for independence analysis, audit documentation, data analytics) as well as an appropriate Internal Control System including policies, guidelines, process				

Key conclusions						
On completion of procedures in this area, assess in conclusion whether						
1	the audit firm has set up an IT organization, has implemented IT processes as well as an IT environment that supports the Internal Controls System for its audit work					
2	the audit firm established a robust information security framework for both the firm and the clients' information					
3	the audit firm implemented controls to prevent and detect IT and Cybersecurity incidents and promptly react when such an incident occurs					
4	the audit firm is regularly assessing its information security framework and takes corrective actions on a timely basis					
5	the audit firm implemented up-to-date solutions to ensure the continuity of its activities					

Definitions ¹	
COBIT	A complete, internationally accepted framework for governing and managing enterprise information and technology (IT) that supports enterprise executives business goals and related IT goals.
Cybersecurity	The protection of information assets by addressing threats to information processed, stored, and transported by internetworked information systems.
Incident management	The process of identifying unplanned event or service interruption occurring on the system and responding in a timely manner with the objective to restore the
Information security	Ensures that within the enterprise, information is protected against disclosure to unauthorised users (confidentiality), improper modification (integrity), and nor

¹ Definitions are based on the ISACA Glossary and have been updated when needed.

nformation and in particular the audit documentation,

he underlying data and the related technology.

(e.g. operational systems, database management systems) sses, preventive measures and controls.

and management in their definition and achievement of

service to its operational state.

n-access when required (availability).



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Information security governance	The set of responsibilities and practices exercised by the board and executive management with the goal of providing strategic direction, ensuring that of appropriately and verifying that the enterprise's resources are used responsibly. It also includes the periodic assessment and evaluation of the cybersecurity pro-			
Information Technology	The hardware, software, communication and other facilities used to input, store, process, transmit and output data in whatever form.			
ISO/IEC 27001	It is intended to provide the foundation for third-party audit and is harmonized with other management standards, such as ISO/IEC 9001 and 14001.			
ITIL (IT Infrastructure Library)	The UK Office of Government Commerce (OGC) IT Infrastructure Library. A set of guides on the management and provision of operational IT services.			
IT system monitoring	The process of reviewing a system activity (including batch processing) to identify anomalies that warrant follow-up or further investigation.			
Penetration testing	Comparing the system's performance to other equivalent systems, using well-defined benchmarks.			
Security incident	A series of unexpected events that involves an attack or series of attacks (compromise and/or breach of security) at one or more sites. A security incident normal number of impact levels are defined and, for each, the specific actions required and the people who need to be notified are identified.			
Security awareness programs	A clearly and formally defined plan, structured approach, and set of related activities and procedures with the objective of re- Scope Notes: This definition clearly states that it is about realizing and maintaining a security aware culture, meaning attaining and sustaining security aware program is not a one-time effort, but a continuous process.			
Vulnerability management	The process of identifying vulnerabilities (i.e., issues, weaknesses) relating to an entity's security environment and implementing timely corrective action to ad			
List of Acronyms				
ВСР	Business Continuity Plan			
BIA	Business Impact Analysis			
CRM	Customer Relationship Management (system)			
DORA ²	Digital Operational Resilience Act			
DPO	Data Protection Officer			
DRP	Disaster Recovery Plan			
GDPR	General Data Protection Regulation			
ISO	Information Security Officer			
IT	Information Technology			
SDLC	Software Development Life Cycle			
SLA	Service Level Agreement			

objectives are achieved, ascertaining that risk is managed ogram for effectiveness.

ally includes an estimation of its level of impact. A limited

ealizing and maintaining a security-aware culture. areness at all times. This implies that a security awareness

ddress the vulnerability.

² The requirements of DORA in this work program are recommended practices (and not regulatory requirements), as the statutory auditors and audit firms are excluded from the scope of DORA.



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St ep	Test objective	Reference	Inspection procedures
1	Obtain an up to date understanding of the firm's <u>IT environment</u> , including underlying IT platforms, relevant network infrastructure, operating systems and databases as well as relevant IT processes, with a focus on the firm's system of quality management and on the performance of statutory audits	ISQM1 32 (f) ISQM1 33 (a) DORA Art. 5-14	1. Understand and evaluate the firm's <u>IT environment</u> including underlying IT platforms, relevant network infrastructure, operating systems a essential data flows.
2	Obtain an up to date understanding of the firm's governance model regarding information and Cybersecurity	ISQM1 32 (f) DORA Art. 5 ISQM1 33 DORA Art. 6 DORA Art.24-27 ISQM1 35 GDPR	 Understand and evaluate the firm's <u>organization</u> including roles and responsibilities for IT and information security. Understand and evaluate the firm's <u>policies and procedures</u> for information and cyber security. Understand and evaluate the <u>risk assessment</u> approach for IT and information security risks. Understand and evaluate the firm's internal and external <u>monitoring activities</u> in relation to information and cyber security. Evaluate the <u>key changes</u> made by the firm since the previous inspection visit, as well as current initiatives. Evaluate the implementation of GDPR and how the firm ensures compliance to the regulations.
3	Obtain an up to date understanding of the firm's <u>control</u> <u>environment</u> as well as procedures, policies and processes regarding information and Cybersecurity	ISQM1 32 (f) ISQM1 33 (a) DORA Art. 9 DORA Art. 5, 8, 11, 12, 26, 28-30	 Understand and evaluate the measures and controls concerning information and cyber security. Understand and evaluate the firm's plans for <u>training and awareness</u> on information security and Cybersecurity. Understand and evaluate the firm's utilization, control and monitoring of <u>IT Outsourcing</u> and/or IT services delivered by third-parties.
4	Obtain an up to date understanding of the firm's procedures to manage <u>information</u> <u>security incidents</u>	ISQM1 33 (a) DORA Art. 10 DORA Art. 11- 12	 Understand and evaluate the firm's procedures to detect, record and manage information <u>security incidents.</u> Understand and evaluate the firm's solutions to ensure the <u>continuity of activities</u>.
5	Evaluate compliance with the firm's procedures to protect	ISQM 1 32 (f)	 Test the audit firm's controls regarding acquisition, development, enhancement, implementation and operation of IT environment including I including IT applications to ensure the proper implementation and operating of the relevant IT systems.

and databases as well as relevant IT processes and

IT applications as well as access to IT environment



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St ep	Test objective	Reference	Inspection procedures
	the firm and the clients' information	ISQM1 35 DORA Art. 13	 Obtain and review the results of internal and external assessments and ensure that the firm took corrective actions when applicable. For a sample of employees, including new joiners, ensure that they participated to training and/or awareness sessions. Ensure that there is a contract with third-parties, including members of the Network when relevant, and that they include clauses about information. For a sample of IT systems, review the rules for passwords as implemented in the system and review the list of user access rights to verify t Obtain and review the results of the last review of user access rights to ensure that the audit firm performs a regular post control of the user a basis when exceptions are detected.
6	Evaluate compliance with the firm's procedures in case of security incidents -	DORA Art. 17- 19 GDPR Data Breach Notification ISQM1 32 (f) DORA Art. 11- 12	 For a sample of information security incidents, review the supporting documentation and ensure that actions were taken on a timely manner Confirm that tests are performed on a regular basis to ensure that backups can be restored, and that DRP/BCP are effective and updated if n
ISACA COBIT framew		COBIT framew	ork, Cybersecurity Nexus, IT knowledge (<u>https://www.isaca.org/</u>)
ISO		ISO/IEC 2700x	series (<u>https://www.iso.org/</u>)
ITIL Information Tec		Information Tec	chnology Infrastructure Library (ITIL)
BSI BSI (Federal O		BSI (Federal Of	fice for Information Security, Germany) (<u>https://www.bsi.bund.de/EN/Topics/ITGrundschutz/itgrundschutz_node.html</u>)
NIST NIST (Nationa		NIST (National	Institute of Standards and Technology, USA) (https://www.nist.gov/cyberframework)
GDPR GDPR (Ge		GDPR (General	Data Protection Regulation (EU) 2016/679) (<u>https://ec.europa.eu/info/law/law-topic/data-protection/data-protection-eu_en#legislation</u>)

out the roles and responsibilities for protection of

that only relevant personnel are granted access.

access rights and that actions are taken on a timely

r and in compliance with national legislation.