# Methodological Guideline No 5/2021 of the financial market supervision units of Národná banka Slovenska of 17 May 2021

#### transposing guidelines on information and communication technology security and governance, concerning requirements to be met by insurance and reinsurance undertakings

By this Methodological Guideline, Národná banka Slovenska transposes the Guidelines of the European Insurance and Occupational Pensions Authority (EIOPA) on information and communication technology security and governance.

In accordance with Article 16 of Regulation (EU) No 1094/2010, EIOPA issued the Guidelines to provide guidance on how insurance and reinsurance undertakings (hereinafter collectively referred to as 'undertakings') should apply the governance requirements foreseen in Directive 2009/138/EC ('the Solvency II Directive') – in the context of the analysis performed in response to the European Commission's FinTech Action plan (COM(2018)0109 final) and the EIOPA Supervisory Convergence Plan 2018–2019, and following interactions with several other stakeholders – and in Commission Delegated Regulation (EU) No 2015/35 ('the Delegated Regulation') in the context of information and communication technology ('ICT') security and governance. The Guidelines build on the provisions on governance provided by Articles 41, 44, 46, 47, 132 and 246 of the Solvency II Directive and Articles 258 to 260, 266, 268 to 271 and 274 of the Delegated Regulation. Moreover, the Guidelines build also on the guidance provided by EIOPA Guidelines on system of governance (EIOPA-BoS-14/253) and by EIOPA Guidelines on outsourcing to cloud service providers (EIOPA-BoS-19/270).

#### Article I

#### Introduction

(1) The objective of these guidelines is to:

- a) provide clarification and transparency to market participants on the minimum expected information and cyber security capabilities, i.e. security baseline;
- b) avoid potential regulatory arbitrage;
- c) foster supervisory convergence regarding the expectations and processes applicable in relation to ICT security and governance as a key to proper ICT and security risk management.

(2) These guidelines apply to both individual undertakings and mutatis mutandis at the level of the group.

(3) In accordance with Article 16(3) of Regulation (EU) No 1094/2010, competent authorities and financial institutions are required to make every effort to comply with these guidelines.

(4) The complexity of ICT is increasing and the frequency of ICT related incidents (including cyber incidents) is also on the rise, as is the detrimental impact of such incidents on undertakings'

operational functioning. For this reason, ICT and security risk management is fundamental for an undertaking to achieve its strategic, corporate, operational and reputational objectives.

(5) In addition, across the insurance sector, including both traditional and innovative business models, there is an increasing reliance on ICT in the provision of insurance services and in undertakings' normal operational functioning, e.g. digitalisation of the insurance sector (InsurTech, IoT, etc.) as well as interconnectedness through telecommunications channels (internet, mobile and wireless connections and wide area networks). This makes undertakings' operations vulnerable to security incidents including cyber attacks. It is therefore important to ensure that undertakings are adequately prepared to manage their ICT and security risks.

(6) Furthermore, recognising the need for being prepared for cyber risk and a sound cyber security framework by undertakings, these guidelines also cover cyber security as a part of the undertaking's information security measures. Whilst these guidelines recognises that cybersecurity should be addressed as part of an undertaking's overall ICT and security risk management, it is important to point out that cyber attacks have some specific characteristics, which should be taken into account to ensure that information security measures adequately mitigate cyber risk:

- a) cyber attacks are often more difficult to manage (i.e. to identify, protect, detect, respond to and to fully recover from) than most of the other sources of ICT and security risk and also the extent of the damage is difficult to determine;
- b) some cyber attacks can render common risk management and business continuity arrangements, as well as disaster recovery procedures ineffective, as they might propagate malware to backup systems in order to make them unavailable or to corrupt backup data;
- c) service providers, brokers, (managing) agents and intermediaries may become channels to propagate cyber attacks. Contagious silent threats may use interconnectivity through third party telecommunications links to travel to the undertaking's ICT system. Therefore, an interconnected undertaking having individual low relevance may become vulnerable and a source of risk propagation and may result in a systemic impact. Observing the weakest link principle, cyber-security should not only be a concern for major market participants or critical service providers.

(7) In complying with these guidelines, undertakings should take into account the principle of proportionality, which should ensure that governance arrangements, including those related to ICT security and governance, are proportionate to the nature, scale and complexity of the corresponding risks the undertaking faces or may face.

(8) These guidelines should be read in conjunction with and without prejudice to the Solvency II Directive, the Delegated Regulation, EIOPA Guidelines on system of governance and EIOPA Guidelines on outsourcing to cloud service providers. These guidelines are intended to be technology and methodology neutral.

(9) For the purposes of these guidelines, the following definitions apply:

- a) 'asset owner' means a person or entity with the accountability and authority for an information and ICT asset;
- b) 'availability' means the property of being accessible and usable on demand (timeliness) by an authorised entity;
- c) 'confidentiality' means the property that information is neither made available nor disclosed to unauthorised individuals, entities, processes or systems;
- d) 'cyber attack' means any type of hacking leading to an offensive / malicious attempt to destroy, expose, alter, disable, steal or gain unauthorised access to or make unauthorised use of an information asset that targets ICT systems;
- e) 'cyber security' means the preservation of confidentiality, integrity and availability of information and/or information systems through the cyber medium;
- f) 'ICT asset' means an asset of either software or hardware that is found in the business environment;
- g) 'ICT projects' means any project, or part thereof, where ICT systems and services are changed, replaced or implemented;
- h) 'ICT and security risk' means, as a sub-component of operational risk, the risk of loss due to breach of confidentiality, failure of integrity of systems and data, inappropriateness or unavailability of systems and data or inability to change ICT within a reasonable time and costs when the environment or business requirements change (i.e. agility). This includes cyber risks as well as information security risks resulting from inadequate or failed internal processes or external events including cyber attacks or inadequate physical security;
- i) 'information security' means the preservation of confidentiality, integrity and availability of information and/or information systems. In addition, other properties, such as authenticity, accountability, non-repudiation and reliability can also be involved;
- j) 'ICT services' means services provided through ICT systems and service providers to one or more internal or external users;
- k) 'ICT systems' means the set of applications, services, information technology assets, ICT assets or other information-handling components, which includes the operating environment;
- l) 'information asset' means a collection of information, either tangible or intangible, that is worth protecting;
- m)'integrity' means the property of accuracy and completeness;

- n) 'operational or security incident' means a singular event or a series of linked unplanned events which have or will probably have an adverse impact on the integrity, availability and confidentiality of ICT systems and services;
- o) 'service provider' means a third party entity that is performing a process, service or activity, or parts thereof, under an outsourcing arrangement;
- p) 'threat led penetration testing' means a controlled attempt to compromise the cyber resilience of an entity by simulating the tactics, techniques and procedures of real-life threat actors. It is based on targeted threat intelligence and focuses on an entity's people, processes and technology, with minimal foreknowledge and impact on operations;
- r) 'vulnerability' means a weakness, susceptibility or flaw of an asset or control that can be exploited by one or more threats.

(10) If not defined in these guidelines, the terms have the meaning defined in the Solvency II Directive.

# Article II

### Guidelines

#### **Guideline 1 – Proportionality**

Undertakings should apply these guidelines in a manner which is proportionate to the nature, scale and complexity of the risks inherent in their business.

### Guideline 2 – ICT within the system of governance

Undertakings' system of governance, in particular the risk-management and internal control system, should ensure adequate management of undertakings' ICT and security risks.

The quantity and skills of the undertakings' staff should be adequate to support their ICT operational needs, ICT and security risk management processes on an ongoing basis and ensure the implementation of their ICT strategy. Furthermore, staff should receive adequate training on ICT and security risks, including information security, on a regular basis, as set out in Guideline 13.

Undertakings should ensure that the allocated resources are appropriate to fulfil the below requirements.

### **Guideline 3 – ICT strategy**

Undertakings' processes for setting and approving their written ICT strategy, as well as their overall business strategy, are subject to the supervision of Národná banka Slovenska (NBS), as are their processes for aligning internal procedures with the strategy.

The ICT strategy should define at least:

- a) how undertakings' ICT should evolve to effectively support and implement their business strategy, including the evolution of the organisational structure, business models, ICT system and key dependencies with service providers;
- b) the evolution of the ICT architecture, including service provider dependencies; and
- c) clear information security objectives, focusing on ICT systems and services, staff and processes.

Undertakings should ensure that ICT strategy is implemented, adopted and communicated to all relevant staff and service providers, as applicable and relevant, in a timely manner.

Undertakings should establish a process to monitor and measure the effectiveness of the implementation of the ICT strategy. That process should be reviewed and updated on a regular basis.

#### Guideline 4 – ICT and security risks within the risk management system

NBS has overall responsibility for establishing an effective system for managing ICT and security risks as part of the undertaking's overall risk management system. This includes the determination of the risk tolerance for those risks, in accordance with the risk strategy of the undertaking, and a regular written report about the result of the risk management process addressed to the administrative, management or supervisory body (AMSB).

As part of their overall risk management system, undertakings should in relation to ICT and security risks (while defining the ICT protection requirements as described below) consider at least the following:

- a) Undertakings should establish and regularly update a mapping of their business processes and activities, business functions, roles and assets (e.g. information assets and ICT assets) in order to identify their importance and their interdependencies to ICT and security risks.
- b) Undertakings should identify and measure all relevant ICT and security risks they are exposed to and classify the identified business processes and activities, business functions, roles and assets (e.g. information assets and ICT assets) in terms of criticality. Undertakings should also assess the protection requirements of, at least, confidentiality, integrity and availability of those business processes and activities, business functions, roles and assets (e.g. information assets and ICT assets). Asset owners, who are accountable for the classification of the assets should be identified.
- c) The methods used to determine the criticality as well as the level of protection required, in particular with regard to the protection objectives of integrity, availability and confidentiality, should ensure that the resulting protection requirements are consistent and comprehensive.
- d) The measurement of ICT and security risks should be conducted on the basis of the defined ICT and security risk criteria taking into account the criticality of their business processes and activities, business functions, roles and assets (e.g. information assets

and ICT assets), the extent of known vulnerabilities, and prior incidents that impacted the undertaking.

- e) The assessment of ICT and security risks should be carried out and documented regularly. This assessment should also be performed ahead of any major change in infrastructure, processes or procedures affecting the business processes and activities, business functions, roles and assets (e.g. information assets and ICT assets).
- f) Based on their risk assessment undertakings should, at least, define and implement measures to manage identified ICT and security risks and protect information assets in accordance with their classification. This should include the definition of measures to manage the remaining residual risks.

The results of the ICT and security risk management process will be included in the supervision of undertakings' overall risk management.

# Guideline 5 – Audit

Undertakings' governance, systems and processes for its ICT and security risks should be audited on a periodic basis in line with the undertakings' audit plan by auditors with sufficient knowledge, skills and expertise in ICT and security risks to provide independent assurance of their effectiveness to the AMSB. The frequency and focus of such audits should be commensurate with the relevant ICT and security risks.

#### Guideline 6 - Information security policy and measures

Undertakings should establish a written information security policy which should define the highlevel principles and rules to protect the confidentiality, integrity and availability of undertakings' information in order to support the implementation of their ICT strategy.

The policy should include a description of the main roles and responsibilities for information security management and it should set out the requirements for staff, processes and technology in relation to information security, recognising that staff at all levels have responsibilities in ensuring the undertaking's information security.

The policy should be communicated within the undertaking and should apply to all staff. Where applicable and relevant, the information security policy or parts of it should also be communicated and applied to service providers.

Based on the policy, undertakings should establish and implement more specific information security procedures and information security measures to, inter alia, mitigate the ICT and security risks they are exposed to. These procedures and information security measures should include every process described in these guidelines, as applicable.

Before implementing the policy, undertakings should consult NBS about it.

### **Guideline 7 – Information security function**

Undertakings should establish, within their system of governance and in accordance with the proportionality principle, an information security function, with the responsibilities assigned to a designated person. The undertaking should ensure the independence and objectivity of the information security function by appropriately segregating it from ICT development and operations processes.

The tasks of the information security function are typically to:

- a) support NBS when defining and maintaining the information security policy for undertakings and control its deployment;
- b) report to NBS regularly and on an ad hoc basis on the status of information security and its developments;
- c) monitor and review the implementation of the information security measures;
- d) ensure that the information security requirements are adhered to when using service providers;
- e) ensure that all employees and service providers accessing information and systems are adequately informed of the information security policy, for example through information security training and awareness sessions;
- f) coordinate operational or security incident examination and report relevant incidents to NBS.

#### **Guideline 8 – Logical security**

Undertakings should define, document and implement procedures for logical access control or logical security (identity and access management) in line with the protection requirements, as defined in Guideline 4. These procedures should be implemented, enforced, monitored and periodically reviewed, and should also include controls for monitoring anomalies. These procedures should, at a minimum, implement the following elements, where the term 'user' also includes technical users:

- a) Need-to-know, least privilege and segregation of duties: undertakings should manage access rights, including remote access to information assets and their supporting systems on a 'need-to-know' basis. Users should be granted the minimum access rights that are strictly required to execute their duties (principle of 'least privilege'), i.e. to prevent unjustified access to data or that the allocation of combinations of access rights may be used to circumvent controls (principle of 'segregation of duties').
- b) User accountability: undertakings should limit, as much as possible, the usage of generic and shared user accounts and ensure that users can be identified and traced back to a responsible natural person or an authorised task for the actions performed in the ICT systems at all times.

- c) Privileged access rights: undertakings should implement strong controls over privileged system access by strictly limiting and closely supervising accounts with elevated system access (e.g. administrator accounts).
- d) Remote access: in order to ensure secure communication and reduce risk, remote administrative access to critical ICT systems should be granted only on a need-to-know basis and when strong authentication solutions are used.
- e) Logging of user activities: users' activities should be logged and monitored in a risk proportionate manner, comprising, at a minimum, privileged users' activities. Access logs should be secured to prevent unauthorised modification or deletion and retained for a period commensurate with the criticality of the identified business functions, supporting processes and information assets, without prejudice to the retention requirements set out in EU and national law. Undertakings should use this information to facilitate identification and investigation of anomalous activities that have been detected in the provision of services.
- f) Access management: access rights should be granted, removed and modified in a timely manner, according to predefined routines for approval where the applicable information asset owner is involved. In the case access is no longer required, access rights should be promptly revoked;
- g) Access assessment: access rights should be periodically reviewed to ensure that users do not possess excessive privileges and that access rights are withdrawn/removed when no longer required;
- h) The granting, modification, and revocation of access rights should be documented in a way that facilitates comprehension and analysis;
- i) Authentication methods: undertakings should enforce authentication methods that are sufficiently robust to adequately and effectively ensure that access control policies and procedures are complied with. Authentication methods should be commensurate with the criticality of ICT systems, information or process being accessed. This should, at a minimum, include strong passwords or stronger authentication methods (such as two-factor authentication), based on relevant risk.

Electronic access by applications to data and ICT systems should be limited to the minimum required to provide the relevant service.

#### **Guideline 9 – Physical security**

Undertakings' physical security measures (e.g. protection against power failure, fire, water and unauthorised physical access) should be defined, documented and implemented to protect their premises, data centres and sensitive areas from unauthorised access and from environmental hazards.

Physical access to ICT systems should be permitted only to authorised individuals. Authorisation should be assigned in accordance with the individuals' tasks and responsibilities and limited to individuals who are appropriately trained and monitored. Physical access should be regularly reviewed to ensure that unnecessary access rights are promptly withdrawn/removed.

Adequate measures to protect against environmental hazards should be commensurate with the importance of the buildings and the criticality of the operations or ICT systems located in these buildings.

#### **Guideline 10 – ICT operations security**

Undertakings should implement procedures to ensure confidentiality, integrity and availability of ICT systems and ICT services in order to minimise the impact of security issues on ICT service delivery. These procedures should appropriately include the following measures:

- a) Identification of potential vulnerabilities which should be evaluated and remediated by ensuring that ICT systems are up to date, including the software provided by undertakings to their internal and external users, by deploying critical security patches, including antivirus definitions updates or by implementing compensating controls.
- b) Implementation of secure configuration baselines for all critical components such as operating systems, databases, routers or switches.
- c) Implementation of network segmentation, data leakage prevention systems and the encryption of network traffic (in accordance with the information asset classification).
- d) Implementation of protection of endpoints including servers, workstations and mobile devices. Undertakings should evaluate whether an endpoint meets the security standards defined by them before it is granted access to the corporate network.
- e) Ensuring that integrity-checking mechanisms are in place to verify the integrity of ICT systems.
- f) Encryption of data at rest and in transit (in accordance with the information asset classification).

#### **Guideline 11 – Security monitoring**

Undertakings should establish and implement procedures and processes to continuously monitor activities that impact the undertakings' information security. The monitoring should cover, at least:

- a) internal and external factors, including business and ICT administrative functions;
- b) transactions by service providers, other entities and internal users; and
- c) potential internal and external threats.

Based on the monitoring, undertakings should implement appropriate and effective capabilities for detecting, reporting and responding to anomalous activities and threats, like physical or logical

intrusion, breaches of confidentiality, integrity and availability of information assets, malicious code and publicly known vulnerabilities for software and hardware.

The reporting from the security monitoring should help the undertakings to understand the nature of both operational or security incidents, to identify trends and to support the undertakings' internal investigations and enable them to make appropriate decisions.

### Guideline 12 - Information security reviews, assessment and testing

Undertakings should perform a variety of different information security reviews, assessments and testings, so as to ensure effective identification of vulnerabilities in their ICT systems and services. For instance, undertakings may perform gap analysis against information security standards, compliance reviews, internal and external audits of the information systems, or physical security reviews.

Undertakings should establish and implement an information security testing framework that validates the robustness and effectiveness of the information security measures and ensure that this framework considers threats and vulnerabilities, identified through threat monitoring and the ICT and security risk assessment process.

Testing should be carried out in a safe and secure manner and by independent testers with sufficient knowledge, skills and expertise in testing information security measures.

Undertakings should perform tests on a regular basis. The scope, frequency and method of testing (such as penetration testing, including threat led penetration testing) should be commensurate with the level of risk identified. Testing of critical ICT systems and vulnerability scans should be performed annually.

Undertakings should ensure that tests of security measures are conducted in the event of changes to infrastructure, processes or procedures and if changes are made because of major operational or security incidents or due to the release of new or significantly changed critical applications. Undertakings should monitor and evaluate results of the security tests, and update their security measures accordingly without undue delays in case of critical ICT systems.

### Guideline 13 - Information security training and awareness

Undertakings should establish information security training programmes for all staff, including AMSB, to ensure that they are trained to perform their duties and responsibilities to reduce human error, theft, fraud, misuse or loss. Undertakings should ensure that the training programme provides training for all staff on a regular basis.

Undertakings should establish and implement periodic security awareness programmes to educate their staff, including the AMSB, on how to address information security related risks.

### **Guideline 14 – ICT operations management**

Undertakings should manage their ICT operations based on the ICT strategy. Documents should define how undertakings operate, monitor and control the ICT systems and ICT services, including documenting critical ICT processes, procedures and operations. Undertakings should implement

logging and monitoring procedures for critical ICT operations to allow for detection, analysis and correction of errors.

Undertakings should maintain an up-to-date inventory of their ICT assets. The ICT asset inventory should be sufficiently detailed to enable a prompt identification of an ICT asset, its location, security classification and ownership.

Undertakings should monitor and manage the lifecycle of ICT assets to ensure that they continue to meet and support business and risk management requirements. Undertakings should monitor that the ICT assets are supported by their vendors or in-house developers and that all relevant patches and upgrades are applied based on a documented process. The risks stemming from outdated or unsupported ICT assets should be assessed and mitigated. Decommissioned ICT assets should be safely processed and disposed of.

Undertakings should implement performance and capacity planning and monitoring processes to prevent, detect and respond to important performance issues of ICT systems and ICT capacity shortages in a timely manner.

Undertakings should define and implement data and ICT systems backup and restoration procedures to ensure that they can be recovered as required. The scope and frequency of backups should be set in line with business recovery requirements and the criticality of the data and the ICT systems, evaluated according to the performed risk assessment. Testing of the backup and restoration procedures should be performed on a regular basis.

Undertakings should ensure that data and ICT system backups are stored in one or more locations out of the primary site, which are secure and sufficiently remote from the primary site so as to avoid being exposed to the same risks.

### Guideline 15 - ICT incident and problem management

Undertakings should establish and implement an incident and problem management process to monitor and log operational or security incidents and enable undertakings to continue or resume critical business functions and processes when disruptions occur.

Undertakings should determine appropriate criteria and thresholds for classifying an event as an operational or security incident, as well as early warning indicators that should serve as an alert to enable early detection of these incidents.

To minimise the impact of adverse events and enable timely recovery, undertakings should establish appropriate processes and organisational structures to ensure a consistent and integrated monitoring, handling and follow-up of operational and security incidents to ensure that the root causes are identified, treated, and corrective actions/measures are taken to prevent the incident from happening again. The incident and problem management process should, at least, establish:

a) the procedures to identify, track, log, categorise and classify incidents according to a priority defined by the undertaking and based on business criticality and service agreements;

- b) the roles and responsibilities for different incident scenarios (e.g. errors, malfunctioning, cyber attacks);
- c) a problem management procedure to identify, analyse and solve the root cause behind one or more incidents; undertakings should analyse operational or security incidents that have been identified or have occurred within and/or outside the organisation, and should consider key lessons learned from these analyses and update the security measures accordingly;
- d) effective internal communication plans, including incident notification and escalation procedures covering also security-related customer complaints to ensure that:
  - i. incidents with a potentially high adverse impact on critical ICT systems and ICT services are reported to the relevant senior management;
  - ii. the AMSB is informed on an ad-hoc basis in case of significant incidents and at least informed of the impact, reaction and additional controls to be defined because of the incidents.
- e) incident response procedures to mitigate the impact related to the incidents and to ensure that the service becomes operational and secure in a timely manner;
- f) specific external communication plans for critical business functions and processes in order to:
  - i. collaborate with relevant stakeholders to effectively respond to and recover from the incident;
  - ii. provide timely information, including incident reporting, to external parties (e.g. customers, other market participants, relevant (supervisory) authorities, as appropriate and in line with applicable regulation).

#### **Guideline 16 - ICT project management**

Undertakings should implement an ICT project methodology (including independent security requirement considerations) with an adequate governance process and project implementation leadership to effectively support the implementation of the ICT strategy through ICT projects.

Undertakings should appropriately monitor and mitigate risks deriving from the portfolio of ICT projects, considering also risks that may result from interdependencies between different projects and from dependencies of multiple projects on the same resources and/or expertise.

#### Guideline 17 - ICT systems acquisition and development

Undertakings should develop and implement a process governing the acquisition, development and maintenance of ICT systems in order to ensure that the confidentiality, integrity, availability of the data to be processed are comprehensibly secured and the defined protection requirements are met. This process should be designed using a risk-based approach. Undertakings should ensure that before system acquisitions or development activities take place, the functional and non-functional requirements (including information security requirements), and technical objectives are clearly defined.

Undertakings should ensure that measures are in place to prevent unintentional alteration or intentional manipulation of the ICT systems during development.

Undertakings should have a methodology in place for testing and approval of ICT systems, ICT services and information security measures.

Undertakings should appropriately test ICT systems, ICT services and information security measures to identify potential security weaknesses, violations and incidents.

Undertakings should ensure segregation of production environments from development, testing and other non-production environments.

Undertakings should implement measures to protect the integrity of source code (where available) of ICT systems. They should also document the development, implementation, operation, and/or configuration of the ICT systems in a comprehensive manner to reduce unnecessary dependency on subject matter experts.

Undertakings' processes for acquisition and development of ICT systems should also apply to ICT systems developed or managed by the business function's end users outside of the ICT organisation (e.g. business managed applications or end user computing applications) using a risk based approach. The undertakings should maintain a register of these applications that support critical business functions or processes.

### **Guideline 18 – ICT change management**

Undertakings should establish and implement an ICT change management process to ensure that all changes to ICT systems are recorded, assessed, tested, approved, authorised and implemented in a controlled manner. Changes during urgent or emergency ICT changes should be traceable and notified ex post to the relevant asset owner for ex post analysis.

Undertakings should determine whether changes in the existing operational environment impact the existing security measures or require the adoption of additional measures to mitigate the risks involved. These changes should be in accordance with the undertakings' formal change management process.

### Guideline 19 - Business continuity management

Undertakings should draw up and approve an ICT continuity policy.

The ICT continuity policy should be communicated appropriately within undertakings and should apply to all relevant staff and, where relevant, to service providers.

### **Guideline 20 – Business impact analysis**

As part of a sound business continuity management, undertakings should conduct a business impact analysis to assess their exposure to severe business disruptions and their potential impact,

quantitatively and qualitatively, using internal and/or external data and scenario analysis. The business impact analysis should also consider the criticality of the identified and classified business processes and activities, business functions, roles and assets (e.g. information assets and ICT assets), and their interdependencies in accordance with Guideline 4.

Undertakings should ensure that their ICT systems and ICT services are designed and aligned with their business impact analysis, for example with redundancy of certain critical components to prevent disruptions caused by events impacting those components.

### **Guideline 21 – Business continuity planning**

Undertakings' overall business continuity plans (BCPs) should consider material risks that could adversely impact ICT systems and ICT services. The plans should support objectives to protect and, if necessary, re-establish the confidentiality, integrity and availability of the undertakings' business processes and activities, business functions, roles and assets (e.g. information assets and ICT assets). Undertakings should coordinate with relevant internal and external stakeholders, as appropriate, during the establishment of these plans.

Undertakings should put BCPs in place to ensure that they can react appropriately to potential failure scenarios within a recovery time objective (the maximum time within which a system or process must be restored after an incident) and a recovery point objective (the maximum time period during which data can be lost in case of an incident at a predefined service level).

Undertakings should consider a range of different scenarios in their BCPs, including extreme but plausible scenarios and cyber-attack scenarios, and assess the potential impact of such scenarios. Based on these scenarios, undertakings should describe how continuity of ICT systems and ICT services, as well as undertakings' information security, is ensured.

### **Guideline 22 – Response and recovery plans**

Based on the business impact analysis and plausible scenarios, undertakings should develop response and recovery plans. These plans should specify the conditions that may require activation of the plan and actions to be taken to ensure the integrity, availability, continuity and recovery of, at least, undertakings' critical ICT systems and ICT services. The response and recovery plans should aim to meet the recovery objectives of the undertakings' operations.

The response and recovery plans should, where necessary, consider both short-term and long-term recovery options. The plans should, at least:

- a) focus on the recovery of the operations of important ICT services, business functions, supporting processes, information assets and their interdependencies to avoid adverse effects on the functioning of the undertaking;
- b) be documented and made available to the business and support units and readily accessible in case of emergency, including a clear definition of roles and responsibilities; and
- c) be continuously updated in line with lessons learned from incidents, tests, newly identified risks and threats, and changed recovery objectives and priorities.

The plans should also consider alternative options where recovery may not be feasible in the short term because of cost, risks, logistics or unforeseen circumstances.

As part of the response and recovery plans, undertakings should consider and implement continuity measures to mitigate failure of service providers, which are of key importance for undertakings' ICT service continuity (in line with the provisions of EIOPA Guidelines on system of governance and Guidelines on outsourcing to cloud service providers).

# **Guideline 23 – Testing of plans**

Undertakings should test their BCPs, and ensure that the operation of their critical business processes and activities, business functions, roles and assets (e.g. information assets) and ICT assets and their interdependencies (including those provided by service providers) are regularly tested based on the undertakings' risk profile.

BCPs should be updated regularly, based on testing results, current threat intelligence and lessons learned from previous events. Any relevant changes in recovery objectives (including recovery time objective and recovery point objective) and/or changes in business processes and activities, business functions, roles and assets (e.g. information assets and ICT assets) should also be included.

BCP testing should demonstrate that BCPs are capable of sustaining the viability of the business until critical operations are re-established at a predefined service level or impact tolerance.

Test results should be documented and any identified deficiencies resulting from the tests should be analysed, addressed and reported to NBS.

### **Guideline 24 – Crisis communications**

In the event of a disruption or emergency, and during the implementation of the BCPs, undertakings should ensure that they have effective crisis communication measures in place so that all relevant internal and external stakeholders, including relevant supervisory authorities, when required by national regulation, as well as relevant service providers, are informed in a timely and appropriate manner.

### **Guideline 25 – Outsourcing of ICT services and ICT systems**

Without prejudice to EIOPA Guidelines on outsourcing to cloud service providers, undertakings should ensure that where ICT services and ICT systems are outsourced, the relevant requirements for the ICT service or ICT system are met.

In case of outsourcing of critical or important functions, undertakings should ensure that contractual obligations of the service provider (e.g. contract, service level agreements, termination provisions in the relevant contracts) include, at least, the following:

a) appropriate and proportionate information security objectives and measures including requirements such as minimum information security requirements, specifications of undertakings' data life cycle, audit and access rights and any requirements regarding

location of data centres and data encryption requirements, network security and security monitoring processes;

- b) service level agreements, to ensure continuity of ICT services and ICT systems and performance targets under normal circumstances as well as those provided by contingency plans in the event of service interruption; and
- c) operational and security incident handling procedures including escalation and reporting.

Undertakings should monitor and seek assurance on the level of compliance of these service providers with their security objectives, measures and performance targets.

### Article III

#### Date of effect

This Methodological Guideline takes effect on 1 July 2021.

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