



Rialtas na hÉireann  
Government of Ireland

# Electronic Communications Security Measures

008 – Network Monitoring &  
Incident Response v1.0

2021

Prepared by Department of the  
Environment, Climate & Communications  
[gov.ie/decc](http://gov.ie/decc)

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# 1 Foreword

The Electronic Communications Security Measures (ECSMs) have been produced by the Electronic Communications Security Measures working group convened by the Irish National Cyber Security Centre (NCSC), which forms part of the Department of the Environment, Climate and Communications (DECC); and with the support of the Commission for Communications Regulation (ComReg). Industry participation in the WG has involved network operators, including the Mobile Network Operators (MNO) which have been awarded 5G licences, and selected fixed line operators.

This ECSM is part of a series of documents listed below:

Title	Subject
<b>ECSM 001</b>	General
<b>ECSM 002</b>	Risk Management
<b>ECSM 003</b>	Physical and Environmental Security
<b>ECSM 004</b>	Training, Awareness and Personnel Security
<b>ECSM 005</b>	Network Management & Access Control
<b>ECSM 006</b>	Signalling Plane Security
<b>ECSM 007</b>	Virtualisation Security
<b>ECSM 008</b>	Network, Monitoring and Incident Response
<b>ECSM 009</b>	Supply Chain Security
<b>ECSM 010</b>	Diversity, Resilience & Continuity
...	...

## 11 2 Introduction

12 Ireland's modern digitally connected society and economy is highly dependent on reliable  
13 and secure electronic communications networks and services (ECN and ECS respectively).  
14 They form the backbone of much of Ireland's critical national infrastructure providing  
15 connectivity to the essential services upon which citizens rely, such as healthcare providers,  
16 energy providers, financial institutions, emergency services and public administration. It is of  
17 paramount importance that these vital networks and services are protected from the full  
18 range of threats with an appropriate level of technical and organisation security measures.

19 The ECSM Working Group Convened on the 02<sup>nd</sup>, 3<sup>rd</sup> and 04<sup>th</sup> of June 2020 to discuss  
20 matters concerning secure network design, deployment, and operation. The group heard  
21 from experts in the field of electronic communications operations, security and incident  
22 response and held focussed discussions on the risks, challenges and best practices  
23 associated with network monitoring and incident response as it pertains to electronic  
24 communications networks and services. ECSM 008 –Network Monitoring and Incident  
25 Response has been developed by the NCSC informed by those meetings.

## 26 3 Scope

27 The ECSMs are applicable to all undertakings providing public Electronic Communications  
28 Networks and publicly available Electronic Communications Services.

29 The legislative basis for the ECSMs is set out in ECSM 001- General

## 30 4 References

Document	Title
ENISA	Supplement to the technical guideline on Security Measures under the EECC
ENISA	Technical Guideline on Security Measures under the EECC
ENISA	Good Practice Guide for Incident Management
ENISA	How to set up CSIRT and SOC
ISO/IEC 27001:2013	Information technology — Security techniques —

	Information security management systems — Requirements
<b>ISO/IEC 27002:2013</b>	Information technology — Security techniques — Code of practice for information security controls
<b>ISO/IEC 27037:2012</b>	Information technology — Security techniques — Guidelines for identification, collection, acquisition and preservation of digital evidence
<b>ISO/IEC 27037:2016</b>	Information technology — Security techniques — Information security incident management — Part 1: Principles of incident management
<b>NIST</b>	Framework for Improving Critical Infrastructure Cybersecurity v1.1
<b>NIST SP 800-100</b>	Information Security Handbook: A Guide for Managers
<b>NIST SP 800-53 R4</b>	Security and Privacy Controls for Federal Information Systems and Organizations
<b>NIST SP 800-61 R2</b>	Computer Security Incident Handling Guide

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## 32 **5 Definitions, Symbols and Abbreviations**

### 33 **5.1 Definitions**

<b>Term</b>	<b>Meaning</b>
<b>EU 5G Security Toolbox</b>	Cybersecurity of 5G networks - EU Toolbox of risk mitigating measures' document published jointly by member states on 31st of January 2020
<b>EU Risk Assessment</b>	EU coordinated risk assessment of the cybersecurity of 5G networks report published jointly by the EU Member States on 09th October 2019
<b>Incident Handling</b>	Actions of detecting, reporting, assessing, responding

	to, dealing with, and learning from security incidents
<b>Incident Response</b>	Actions taken to mitigate or resolve a security incident, including those taken to protect and restore the normal operational conditions of an information system and the information stored in it.
<b>Incident Response Function</b>	A capability set up for the purpose of assisting in responding to computer security-related incidents; also called a Computer Security Incident Response Team (CSIRT), a Computer Emergency Response Team (CERT) or Computer Incident Response Capability (CIRC)
<b>Indicator of Compromise</b>	An artefact observed on a network or in an operating system that, with high confidence, indicates a computer intrusion.
<b>Managed Service Provider (MSP)</b>	A third-party that helps to run or administrate a network.
<b>National Risk Assessment</b>	Risk assessment carried out by the National Cyber Security Centre and forwarded to the European Commission on 15 July 2019.
<b>Operator</b>	An undertaking providing or authorised to provide a public electronic communications network or an associated facility;
<b>Playbook</b>	A documented planned course of action in response to anticipated events.
<b>Security Event</b>	Any observable occurrence in a network or system that poses a risk to the security of networks and services.
<b>Security Incident</b>	An event having an actual adverse effect on the security of electronic communications networks or

	services.
<b>Security of Networks and Services</b>	The ability of electronic communications networks and services to resist, at a given level of confidence, any action that compromises the availability, authenticity, integrity or confidentiality of those networks and services, of stored or transmitted or processed data, or of the related services offered by, or accessible via, those electronic communications networks or services
<b>Threat Intelligence</b>	Data that is collected, processed, and analysed to understand threat actors' motives, targets and attack behaviours.

## 34 5.2 Symbols

35 Nil

## 36 5.3 Abbreviations

<b>Term</b>	<b>Meaning</b>
<b>AV</b>	Anti-Virus
<b>ComReg</b>	The Commission for Communications Regulation
<b>CSIRT</b>	Computer Security Incident Response Team
<b>DECC</b>	The Department of Environment, Climate and Communications
<b>ECSM</b>	Electronic Communications Security Measure
<b>IDS</b>	Intrusion Detection Systems
<b>IOC</b>	Indicator of Compromise
<b>ISAC</b>	Information Sharing and Analysis Centre
<b>MNO</b>	Mobile Network Operator



<b>MSP</b>	Managed Service Providers
<b>NCSC</b>	National Cyber Security Centre
<b>NOC</b>	Network Operations Centre
<b>SIEM</b>	Security Information and Event Management
<b>SOC</b>	Security Operations Centre
<b>TI</b>	Threat Intelligence

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## 39 6 Overview of Risk

40 Security incidents, including cyber-attacks, have become a part of operating in a connected  
41 world. The potential for a successful cyber-attack of an operator's network is not a case of if,  
42 but when. In order to best prepare for this eventuality, it is important that operators have an  
43 ability to monitor their networks, to detect anomalous or malicious activity, and respond  
44 effectively to security incidents. Preventive actions and controls based on the results of risk  
45 assessments can lower the number of incidents, but not all incidents can be prevented  
46 entirely. An incident response capability is therefore necessary for detecting incidents,  
47 minimising data loss and destruction and restoring normal network operations.

48

49 When an incident occurs, it is too late to develop the right procedures, reporting, data  
50 collection, management responsibility, legal protocols, and communications strategy that will  
51 allow the operator to successfully understand, manage, and recover from an incident.  
52 Without an incident response plan, an operator may not discover an attack in the first place,  
53 or, if the attack is detected, the operator may not follow good procedures to contain damage,  
54 eradicate the attacker's presence, and recover in a secure fashion. As a result, the incident  
55 could have a greater impact, causing more damage, infecting more systems, and possibly  
56 exfiltrate more sensitive data than would otherwise be possible were an effective incident  
57 response plan in place.

58

59 The importance of effective Network Monitoring and Incident Response was highlighted in  
60 EU 5G Security Toolbox, particularly in technical measure 05 - *Ensuring secure 5G network*  
61 *management, operation and monitoring* which states:

62

63 *“Ensure that MNOs run their Network Operation Centres (NOC) and/or Security Operation*  
64 *Centres (SOC) on premise, inside the country and/or inside the EU.*

65

66 *The NOC and SOC are a vital component of the MNO's infrastructure in implementing and*  
67 *monitoring the measures for secure network management and operation. They should*  
68 *provide clear visibility and implement effective network monitoring of at least all the critical*  
69 *components and sensitive part of 5G networks, to detect anomalies and to identify and avoid*  
70 *threats, such as, for example, threats to the core network coming from compromised user*  
71 *devices and (IoT).*

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*Also ensure that MNOs appropriately protect the management traffic of the communications network or service to avoid unauthorised changes to the communications network or service components.”*

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One of the key vulnerabilities identified in the National Risk Assessment, and the coordinated EU Risk Assessment, is the lack of specialised and trained personnel to secure, monitor and maintain networks, therefore it is essential that operators adequately resource their network monitoring and incident response function. ECSM 004 covers training and personnel security matters in greater detail.

81

## 82 7 Security Measures

83 The operator should implement the Network Monitoring and Incident Response Security  
84 Measures in a manner that is customised to be appropriate and proportionate to the  
85 organisation.

Measure	Description
IR.01	The operator shall have adequate resources available to monitor, understand and analyse security-related network activity.
IR.02	The operator shall host <sup>1</sup> their NOC/SOC on premises or located within the EU, EEA or shall operate it in a manner compliant with European electronic communications, security and data protection legislation.
IR.03	Baseline network behaviour shall be understood, through the gathering of logging data from priority areas such as critical network nodes, allowing system abnormalities and malicious activity to be detected.
IR.04	Security events shall be identified and shall trigger appropriate alerts to the NOC/SOC.
IR.05	Security events for priority areas, such as critical network nodes shall be promptly investigated and triaged, and where necessary remediated or escalated appropriately.
IR.06	The operator shall have documented security incident management procedures, including roles and responsibilities, lines of reporting/escalation, contact information and playbooks on how to respond to common security incident types.
IR.07	The operator shall have a standard way of categorising and prioritising incidents, such as by incident type and severity/impact.
IR.08	The incident management process shall be tested through periodic incident response exercises and scenarios.

<sup>1</sup> f using a third party for the provision of NOC/SOC services, the third party must either be an EU/EEA registered company or operate in a manner that is compliant with European electronic communications, security, and data protection legislation.

<b>IR.09</b>	The operator shall have a post-incident/exercise review process, including lessons learned, to improve their resilience and minimize the likelihood or impact of similar incidents occurring.
<b>IR.10</b>	The operator should seek out sources of threat intelligence (TI), including indicators of compromise (IOCs) and should proactively detect, contain, and eradicate malicious activity.
<b>IR.11</b>	Operators shall share the details of significant security incidents with ComReg and appropriate government authorities, as required by legislation, to enhance understanding of the threats, risks and exploitation of Electronic Communications Networks and Services.
<b>IR.12</b>	The operator should participate in sectoral information sharing arrangements, where such arrangements exist.

87 **8 Implementation Guidance**

88 The implementation guidance in the following subsections is applicable to the security  
 89 measures in section 7 as shown in **Error! Reference source not found.** below.

90 **Table 1 - Correlation of implementation Guidance to Security Measures**

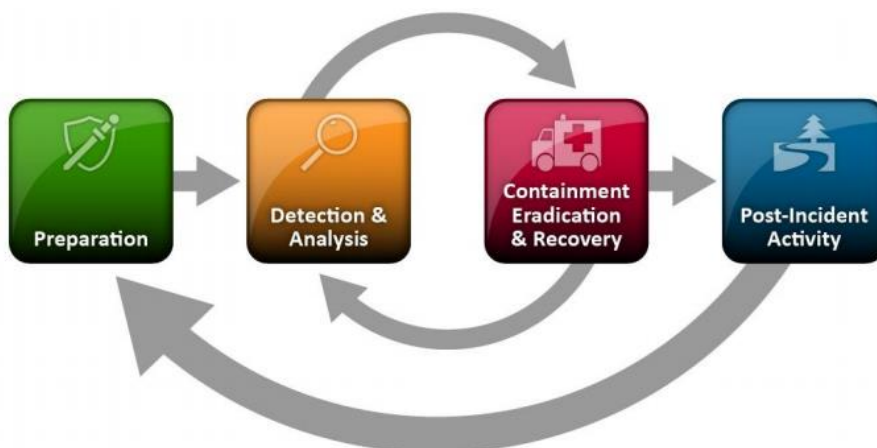
	IR. 01	IR. 02	IR. 03	IR. 04	IR. 05	IR. 06	IR. 07	IR. 08	IR. 09	IR. 10	IR. 11	IR. 12
8.1	✓		✓	✓	✓	✓	✓	✓	✓	✓		
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8.3	✓	✓										
8.4	✓		✓	✓								
8.5											✓	✓

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92 **8.1 Incident Response Plan**

93 **Applicable Security Measures:** IR.01, IR.03, IR.04, IR.05, IR.06, IR.07, IR.08, IR.09, IR.10

94 The Incident response process can be broken down into a number of phases. NIST SP 800-  
 95 61 outlines four main phases of an incident response process – *Preparation, Detection &*  
 96 *Analysis, Containment, Eradication & Recovery and Post-Incident Activity*



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**Figure 1 - Incident Response Process**

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## 100 **8.1.1 Preparation**

101 The preparation phase of the Incident Response process is essential in not only ensuring  
102 operators can respond to security incidents but also preventing incidents by ensuring  
103 systems, network and applications are sufficiently secure.

104 A comprehensive Incident Response Policy and detailed incident response playbooks for  
105 common incidents are essential to ensure a smooth response to serious security incidents.

106 As a minimum the policy should include:

- 107 • a statement of senior management commitment,
- 108 • structure and definition of Incident Response Function,
- 109 • roles, responsibilities, and levels of authority,
- 110 • the requirements and guidelines for external communications and information sharing
- 111 • the escalation process during incident management,
- 112 • prioritisation or severity ratings of incidents.

113 As a minimum Incident Response Functions should have appropriate facilities and tools  
114 prepared and available, such as:

- 115 • detailed contact information,
- 116 • incident reporting and tracking mechanisms,
- 117 • hardware and software required to monitor and investigate security events,
- 118 • detailed network documentation and data flow charts,
- 119 • network baseline information.

120 Incident prevention is an important aspect of the preparation phase. Further detail on  
121 developing a comprehensive security training and awareness programme can be found in  
122 ECSM 004.

## 123 **8.1.2 Detection and Analysis**

124 Security incidents by their very nature are unpredictable, and it is impossible to precisely  
125 outline step by step instruction on how to deal with each incident, however, operators should  
126 be prepared to deal with the most common attacks. Frameworks such as MITRE ATT&CK<sup>2</sup>

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<sup>2</sup> <https://attack.mitre.org/>

127 outline the main adversary tactics and techniques and offer a useful and consistent  
128 framework which can be used to define, analyse, and respond to cyber security incidents.

129 During the detection phase the incident response function should focus on identifying any  
130 potential IOCs indicating malicious activity. IOCs can include, inter alia, anomalous traffic  
131 entering or exiting the network, unknown files, applications, or processes running, suspicious  
132 user activity, particularly involving privileged users, unusual log in attempts or spikes in  
133 requests.

134 Data for detecting indicators of compromise can come from numerous sources including, but  
135 not limited to:

- 136 • alerts from intrusion detection systems (IDS), security information and event  
137 management systems (SIEM) or anti-virus (AV)
- 138 • analysis from log files or anomalous data flows
- 139 • alerts and advisories on vulnerabilities e.g. via system vendors.
- 140 • reports from staff within the organisation
- 141 • reports from third parties.

142 Once indicators of a security incident have been detected, the incident response functions  
143 should promptly investigate and triage the incident to determine the validity and severity of  
144 the alert. Prioritisation is a key aspect of this phase of the incident response process.  
145 Incidents should be classified using clearly defined metrics of the incidents likely impact and  
146 severity.

147 The analysis of incidents should follow a predefined process and all actions during the  
148 response should be documented. It is also important to gather evidence throughout the  
149 incident, primarily in order to resolve the incident, but it may also be required in subsequent  
150 legal proceedings. Consider obtaining expert security and legal advice as regards preserving  
151 the evidence and adopting chain of custody procedures.

### 152 **8.1.3 Containment, Eradication and Recovery**

153 Containment is important before an incident overwhelms resources or increases damage.  
154 Containment will likely require decisions to be made on shutting down systems or  
155 disconnecting from networks and disabling functions. These decisions can be made easier  
156 by having pre-determined plans for incident containment.

157 After an incident has been contained, eradication may be necessary to eliminate  
158 components of the incident, such as deleting malware and disabling breached user



159 accounts, as well as identifying and mitigating all vulnerabilities that were exploited. During  
160 eradication, it is important to identify all affected hosts within the organization so that they  
161 can be remediated. Eradication and recovery should be done in a phased approach so that  
162 remediation steps are prioritized.

163 Recovery from an incident can take anywhere from minutes to months and may require an  
164 entire rebuild of a system that has been fully compromised.

#### 165 **8.1.4 Post Incident Activity**

166 Operators should ensure they fully investigate all major incidents and draft a final incident  
167 report including actions taken and recommendations to mitigate future occurrence of this  
168 type of incident. In order to better prepare for future incidents as well as to improve the  
169 overall incident response process, a lessons learned process is an integral part of incident  
170 response. Each incident response team should evolve to reflect new threats, improved  
171 technology, and lessons learned. The lessons learned process also provides opportunities to  
172 train new and future members of staff.

173 Key metrics on incidents should also be gathered which can aid reporting and tracking the  
174 effectiveness of the incident response function.

### 175 **8.2 Automation**

176 **Applicable Security Measures:** IR.01, IR.03, IR.04, IR.05,

177 Introducing automation to an operator's incident response function to tackle security  
178 incidents when they arise assists in achieving timely restoration of services and reduces the  
179 opportunities for human errors. Automation is a key enabler for an operator to best use the  
180 scarce human security resources reducing the amount of time spent on manual log and  
181 alarm reviews, which can reduce the overall time to detect and respond to an incident.  
182 Elements of an operator's incident response can be automated, including fully automated  
183 playbook actions, semi-automated actions, or approval-based response actions that allow  
184 users to review before countermeasures are carried out. As automation technologies  
185 advance Artificial Intelligence (AI) is increasingly being used to improve the performance of  
186 automation and reducing the number of false positives.

### 187 **8.3 Appropriate Model**

188 **Applicable Security Measures:** IR.01, IR.02,

189 The appropriate model for an operator's network monitoring and incident response function  
190 will depend on the risk profile and operational context of the operator. Given the sensitive

191 nature of the work being carried out, this work should not be conducted outside of the  
192 EU/EEA or jurisdictions with legal frameworks consistent with European electronic  
193 communications, security, and data protection legislation.

### 194 **8.3.1 Operator Hosted**

195 Hosting the NOC/SOC on site and staffing with the operator's own staff offers the advantage  
196 of retaining complete control and oversight of the network monitoring and incident response  
197 functions. This model allows the operator to retain security expertise in-house and may be  
198 appropriate for larger operators.

### 199 **8.3.2 Outsourced**

200 Operator's may choose to outsource their network monitoring and/or incident response  
201 function to their parent group, or to a Managed Security Services Provider (MSSP). This can  
202 be done in order to save on costs, or to ensure the best use of scarce security expertise and  
203 resources. The network monitoring and incident response functions represent some of the  
204 most sensitive work that an operator engages in, and extreme care should be taken when  
205 this task is outsourced to a third party and the security measures in ECISM 009 – Supply  
206 Chain Security need to be strictly adhered to.

## 207 **8.4 Logging and Monitoring**

208 **Applicable Security Measures:** IR.01, IR.03, IR.04,

209 Logging is the foundation on which security monitoring and situational awareness are built.  
210 Effective logging allows an operator to understand what has happened and how great the  
211 impact of an incident was. It also assists in data-based decision making during the response  
212 to an incident. Effective logging also allows an operator to understand if their incident  
213 response process has been effective and if security controls are operating as they should.

214 The operator should have a policy for logging and monitoring critical systems and nodes  
215 including minimum monitoring and logging requirements, retention period, and the overall  
216 objectives of storing monitoring data and logs. They should also have appropriate tools for  
217 monitoring systems and collecting logs, as well as raising alerts to the NOC/SOC when  
218 security events occur.

## 219 **8.5 Information Sharing**

220 **Applicable Security Measures:** IR.11, IR.12

221 There is maxim that says in security you should cooperate whilst competing in all other  
222 areas of business. Security information sharing is one of the key components of effective  
223 preparation and response to cyber incidents. By sharing information with other electronic  
224 communications operators, other industries, and relevant public authorities, a shared body of  
225 knowledge can be developed in order to assist individual operators in preparing for and  
226 responding to cyber incidents. The type of information that can be shared includes:

- 227 • information relating to cyber threats,
- 228 • vulnerabilities,
- 229 • indicators of compromise,
- 230 • tactics, techniques and procedures,
- 231 • cybersecurity alerts and
- 232 • configuration tools

233 The purpose for sharing such information is to help prevent, detect, respond to, or mitigate  
234 cybersecurity incidents. In general sharing information helps to enhance the overall level of  
235 cybersecurity in particular through:

- 236 • raising awareness in relation to cyber threats,
- 237 • limiting or impeding the ability of a security threat to spread,
- 238 • supporting a range of defensive capabilities,
- 239 • vulnerability remediation and disclosure,
- 240 • threat detection techniques,
- 241 • mitigation strategies,
- 242 • response and recovery stages.

243 There are many forms that such information sharing can take such as meeting the minimum  
244 level of statutory obligations regarding incident reporting, bilateral sharing arrangements with  
245 other operators, informal information sharing forums through to formal Information Sharing  
246 and Analysis Centres (ISACs). ISACs typically have dedicated procedures, ICT platforms,  
247 content and conditions of the information sharing arrangements. Further information on  
248 ISACs can be found on the ENISA website<sup>3</sup> of including their “ISAC in a box” tool<sup>4</sup> for

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<sup>3</sup> <https://www.enisa.europa.eu/topics/national-cyber-security-strategies/information-sharing?tab=details>

249 establishing and developing ISAC. It includes activities, documents and tools, everything  
250 needed to set up and run an ISAC.

251 A key element in information sharing arrangements is the development of trust between  
252 sharing partners, therefore, it is recommended that such arrangements are built  
253 incrementally

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<sup>4</sup> <https://www.enisa.europa.eu/topics/national-cyber-security-strategies/information-sharing/isacs-toolkit/view>

## 255 **9 Relevant References**

256 The following standards, guidelines and reports offer further detail and will assist operators  
257 in designing policies, procedures and processes that meet the *Security Measures* outlined in  
258 Section 7 of this document.

### 259 **9.1 ENISA Good Practice Guide for Incident Management**

260 [Good Practice Guide for Incident Management — ENISA \(europa.eu\)](#)

261 This guide complements the existing set of ENISA guides that support Computer Emergency  
262 Response Teams. It describes good practices and provides practical information and  
263 guidelines for the management of network and information security incidents with an  
264 emphasis on incident handling.

### 265 **9.2 ENISA CSIRT SOC Guide**

266 [How to set up CSIRT and SOC — ENISA \(europa.eu\)](#)

267 This publication provides results-driven guidance for those who are interested in establishing  
268 a computer security incident response team (CSIRT) or security operations centre (SOC),  
269 and guidance on possible improvements for different types of CSIRTs and SOCs that exist  
270 currently. The reader will receive practical guidance on what to focus on during the individual  
271 phases of establishment and improvement.

### 272 **9.3 ISO/IEC 27035-1 Principles of Incident Management**

273 [ISO - ISO/IEC 27035-1:2016 - Information technology — Security techniques — Information  
274 security incident management — Part 1: Principles of incident management](#)

275 ISO/IEC 27035-1:2016 presents basic concepts and phases of information security incident  
276 management and combines these concepts with principles in a structured approach to  
277 detecting, reporting, assessing, and responding to incidents, and applying lessons learnt.  
278 The principles are generic and intended to be applicable to all organizations, regardless of  
279 type, size or nature. Organizations can adjust the guidance according to their type, size and  
280 nature of business in relation to the information security risk situation. It is also applicable to  
281 external organizations providing information security incident management services.

282 **9.4 ISO/IEC 27037 Guidelines for identification, collection,**  
283 **acquisition and preservation of digital evidence**

284 [ISO - ISO/IEC 27037:2012 - Information technology — Security techniques — Guidelines for](#)  
285 [identification, collection, acquisition and preservation of digital evidence](#)

286 ISO/IEC 27037:2012 provides guidelines for specific activities in the handling of digital  
287 evidence, which are identification, collection, acquisition and preservation of potential digital  
288 evidence that can be of evidential value. It provides guidance to individuals with respect to  
289 common situations encountered throughout the digital evidence handling process and  
290 assists organizations in their disciplinary procedures and in facilitating the exchange of  
291 potential digital evidence between jurisdictions.

292 **9.5 NIST SP 800-61 Computer Security Incident Response**  
293 **Guide**

294 [Computer Security Incident Handling Guide \(nist.gov\)](#)

295 This publication assists organizations in establishing computer security incident response  
296 capabilities and handling incidents efficiently and effectively. This publication provides  
297 guidelines for incident handling, particularly for analyzing incident-related data and  
298 determining the appropriate response to each incident. The guidelines can be followed  
299 independently of particular hardware platforms, operating systems, protocols, or  
300 applications.