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Expression des Besoins et Identification des Objectifs de Sécurité

EBIOS[®]

SECTION 4
TOOLS FOR ASSESSING ISS RISKS

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02/1997 (1.1)	Publication of the EBIOS guide	Validated
23/01/2004	Global revision: <ul style="list-style-type: none"> - Explanations and bringing into line with international security and risk management standards - Highlighting the regulatory baseline within the total set of constraints to be taken into account - Incorporation of the concepts of assumption and security rules (ISO/IEC 15408) - Selected essential elements transferred into the Target system study - Improvement of method for establishing the requirements scale: values representing acceptable limits for the organisation compared with personalised impacts - Incorporation of needs determination for each element in the following activity - Determination of operating mode incorporated into the assumptions - Concepts adapted to ISO/IEC 15408: the source of threats is studied, i.e. the attack methods and the threat agents, together with their characterisation, which may include a type (natural, human, environmental), a cause (accidental, deliberate, detailing in the description available resources, expertise, motivation), an attack potential - Highlighting of attack methods not retained - Formalisation of threats, as understood in ISO/IEC 15408 (threat agents, attack and asset in the form of entities), before comparing with security needs - Comparison of threats with needs modified to allow risks to be identified - Highlighting of non-retained risks - Determination of minimum security objectives incorporated into the activities "Formalisation of security objectives" and "Determination of functional requirements" - Determination of security objectives modified to take into account the assumptions, security policy rules, constraints, regulatory baseline and risks - Determination of security levels added to allow the level of security objectives to be determined (especially in relation to attack potential) and an assurance level to be chosen - Determination of functional security requirements added to allow functional requirements covering security objectives to be determined and the extent of cover presented - Determination of security requirements for assurance added to allow any assurance requirements to be determined Improvements in form, minor adjustments and corrections (grammar, spelling, formulations, presentations, consistency, etc.)	Validated by the EBIOS Club
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SECTION 3 – TECHNIQUES (separate document)

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SECTION 5 – TOOLS FOR TREATING ISS RISKS (separate document)

1 Introduction

The EBIOS¹ method comprises five complementary sections.

- ❑ Section 1 – Introduction
This section presents the context, advantages and positioning of the EBIOS approach. It also contains a bibliography, glossary and explanation of acronyms.
- ❑ Section 2 – Approach
This section explains the running of the activities of the method.
- ❑ Section 3 – Techniques
This section proposes means for accomplishing the activities of the method. These techniques will have to be adapted to the organisation's needs and practices.
- ❑ Section 4 – Tools for assessing ISS risks
This section forms the first part of the knowledge bases for the EBIOS method (types of entity, attack methods, vulnerabilities).
- ❑ Section 5 – Tools for treating ISS risks
This section forms the second part of the knowledge bases for the EBIOS method (security objectives, security requirements, tables for determining security functional objectives and requirements).

This document forms the fourth section of the method.

It includes :

- a classification of entity types and sub-types,
- a classification of attack methods, described according to the threat agents capable of using them,
- a vulnerability base arranged by attack method and listing all the types and sub-types concerned.

¹ EBIOS is a registered trademark of the French General Secretariat of National Defence.

2 Entity types and sub-types

2.1 MAT : Hardware

MAT: Hardware

Type	MAT: Hardware
Description	Description: ----- The hardware type consists of all the physical elements of an information system.

2.1.1 MAT_ACT : Data processing equipment (active)

MAT_ACT: Data processing equipment (active)

Type	MAT_ACT: Data processing equipment (active)
Description	Description: ----- Automatic information processing equipment including the items it requires to operate independently. Affiliated entity types and sub-types: ----- MAT: Hardware The hardware type consists of all the physical elements of an information system.

MAT_ACT.1: Transportable equipment

Type	MAT_ACT.1: Transportable equipment
Description	Description: ----- Computer equipment designed to be carried by hand and used in different places. Examples: ----- Laptop computer, PDA. Affiliated entity types and sub-types: ----- MAT: Hardware The hardware type consists of all the physical elements of an information system.. MAT_ACT: Data processing equipment (active) Automatic information processing equipment including the items it requires to operate independently.

MAT_ACT.2: Fixed equipment

Type	MAT_ACT.2: Fixed equipment
Description	Description: ----- Computer equipment belonging to the organisation or used in the organisation's premises. Examples: ----- Server, microcomputer used as a workstation. Affiliated entity types and sub-types: -----

MAT: Hardware
 The hardware type consists of all the physical elements of an information system.
 MAT_ACT: Data processing equipment (active)
 Automatic information processing equipment including the items it requires to operate independently.

MAT_ACT.3: Processing peripheral

Type	MAT_ACT.3: Processing peripheral
Description	<p>Description: ----- Equipment connected to a computer via a communication port (serial, parallel link, etc.) for entering, conveying or transmitting data.</p> <p>Examples: ----- Printer, removable disc drive</p> <p>Affiliated entity types and sub-types: ----- MAT: Hardware The hardware type consists of all the physical elements of an information system. MAT_ACT: Data processing equipment (active) Automatic information processing equipment including the items it requires to operate independently.</p>

2.1.2 MAT_PAS : Data medium (passive)

MAT_PAS: Data medium (passive)

Type	MAT_PAS: Data medium (passive)
Description	<p>Description: ----- These are media for storing data or functions.</p> <p>Affiliated entity types and sub-types: ----- MAT: Hardware The hardware type consists of all the physical elements of an information system.</p>

MAT_PAS.1: Electronic medium

Type	MAT_PAS.1: Electronic medium
Description	<p>Description: ----- An information medium that can be connected to a computer or computer network for data storage. Despite their compact size, these media may contain a large amount of data. They can be used with standard computing equipment.</p> <p>Examples: ----- Floppy disc, CD ROM, back-up cartridge, removable hard disc, memory key, tape.</p> <p>Affiliated entity types and sub-types: ----- MAT: Hardware The hardware type consists of all the physical elements of an information system. MAT_PAS: Data medium (passive) These are media for storing data or functions.</p>

MAT_PAS.2: Other media

Type	MAT_PAS.2: Other media
------	------------------------

Description

Description:

Static, non-electronic media containing data.

Examples:

Paper, slide, transparency, documentation, fax.

Affiliated entity types and sub-types:

MAT: Hardware

The hardware type consists of all the physical elements of an information system.

MAT_PAS: Data medium (passive)

These are media for storing data or functions.

2.2 LOG: Software

LOG: Software

Type	LOG: Software
Description	Description: ----- The software type consists of all the programmes contributing to the operation of a data processing set.

2.2.1 LOG_OS: Operating system

LOG_OS: Operating system

Type	LOG_OS: Operating system
Description	Description : ----- This title includes all the programmes of a computer making up the operational base from which all the other programmes (services or applications) are run. It includes a kernel and basic functions or services. Depending on the architecture, an operating system may be monolithic or made up of a micro-kernel and a set of system services. The main components of the operating system are all the equipment management services (CPU, memory, discs, peripherals and network interfaces), task or process management services and user and user rights management services. Examples : ----- GCOS, MVS, Solaris, Linux, Windows95, Windows2000, WindowsXP, PalmOS, WCX, MacOS. Affiliated entity types and sub-types: ----- LOG : Software The software type consists of all the programmes contributing to the operation of a data processing set.

2.2.2 LOG_SRV: Service, maintenance or administration software

LOG_SRV: Service, maintenance or administration software

Type	LOG_SRV: Service, maintenance or administration software
Description	Description : ----- Software characterised by the fact that it complements the operating system services and is not directly at the service of the users or applications (even though it is usually essential or even indispensable for the global operation of the information system). Examples : ----- GCOS, MVS, Solaris, Linux, Windows95, Windows2000, WindowsXP, PalmOS, WCX, MacOS. Affiliated entity types and sub-types: ----- LOG: Software The software type consists of all the programmes contributing to the operation of a data processing set.

2.2.3 LOG_STD: Package software or standard software

LOG_STD: Package software or standard software

Type	LOG_STD: Package software or standard software
Description	<p>Description :</p> <p>-----</p> <p>Standard software or package software are complete products commercialised as such (rather than one-off or specific developments) with medium, release and maintenance. They provide "generic" services for users and applications, but are not personalised or specific in the way that business applications are.</p> <p>Examples:</p> <p>-----</p> <p>Data base management software, electronic messaging software, groupware, directory software, Webserver software, etc. (Oracle, DB2, IIS, Apache, Lotus Notes, Exchange, OpenLDAP, etc.).</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>LOG: Software</p> <p>The software type consists of all the programmes contributing to the operation of a data processing set.</p>

2.2.4 LOG_APP : Business application

LOG_APP: Business application

Type	LOG_APP: Business application
Description	<p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>LOG: Software</p> <p>The software type consists of all the programmes contributing to the operation of a data processing set.</p>

LOG_APP.1: Standard business application

Type	LOG_APP.1: Standard business application
Description	<p>Description :</p> <p>-----</p> <p>This is commercial software designed to give users direct access to the services and functions they require from their information system in their professional context. There is a very wide, theoretically limitless, range of fields.</p> <p>Examples:</p> <p>-----</p> <p>Accounts software, machine tool control software, customer care software, personnel competency management software, administrative teleprocedure software, etc.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>LOG: Software</p> <p>The software type consists of all the programmes contributing to the operation of a data processing set.</p> <p>LOG_APP: Business application</p>

LOG_APP.2: Specific business application

Type	LOG_APP.2: Specific business application
Description	<p>Description:</p> <p>-----</p> <p>This is software in which various aspects (primarily support, maintenance, upgrading, etc.) have been specifically developed to give users direct access to</p>

the services and functions they require from their information system in their professional context. There is a very wide, theoretically limitless, range of fields.

Examples:

Invoice management of telecom operators' customers, real time monitoring application for rocket launching

Affiliated entity types and sub-types:

LOG: Software

The software type consists of all the programmes contributing to the operation of a data processing set..

LOG_APP: Business application

2.3 RES : Network

RES: Network

Type	RES: Network
Description	<p>Description:</p> <p>-----</p> <p>The network type consists of all telecommunications devices used to interconnect several physically remote computers or components of an information system.</p>

2.3.1 RES_INF : Medium and supports

RES_INF: Medium and supports

Type	RES_INF: Medium and supports
Description	<p>Description:</p> <p>-----</p> <p>Communications and telecommunications media or equipment are characterised mainly by the physical and technical characteristics of the equipment (point-to-point, broadcast) and by the communication protocols (link or network - levels 2 and 3 of the OSI 7-layer model).</p> <p>Examples:</p> <p>-----</p> <p>PSTN, Ethernet, GigabitEthernet, cable, fibre, copper ADSL, WiFi 802.11, BlueTooth, FireWire.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>RES: Network</p> <p>The network type consists of all telecommunications devices used to interconnect several physically remote computers or components of an information system.</p>

2.3.2 RES_REL : Passive or active relay

RES_REL: Passive or active relay

Type	RES_REL: Passive or active relay
Description	<p>Description:</p> <p>-----</p> <p>This sub-type includes all devices that are not the logical terminations of communications (IS vision) but are intermediate or relay devices. These relays employ ad-hoc hardware, and often ad-hoc software. They are characterised by the supported network communication protocols. In addition to the basic relay, they often include routing and/or filtering functions and services, employing communication switches and routers with filters. They can often be administrated remotely and are sometimes capable of generating logs.</p> <p>Examples:</p> <p>-----</p> <p>Bridge, router, hub, switch, automatic exchange.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>RES: Network</p> <p>The network type consists of all telecommunications devices used to interconnect several physically remote computers or components of an information system.</p>

2.3.3 RES_INT : Communication interface

RES_INT: Communication interface

Type	RES_INT: Communication interface
Description	<p>Description:</p> <p>-----</p> <p>The communication interfaces of the processing units. They are connected to the processing units, but are characterised by the media and supported protocols, by any installed filtering, log or warning generation functions and their capacities and by the possibility and requirement of remote administration.</p> <p>Examples:</p> <p>-----</p> <p>Wifi, GPRS, Ethernet adaptor.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>RES: Network</p> <p>The network type consists of all telecommunications devices used to interconnect several physically remote computers or components of an information system.</p>

2.4 PER : Personnel

PER: Personnel

Type	PER: Personnel
Description	Description: ----- The personnel type consists of all the groups of persons involved in the information system.

2.4.1 PER_DEC : Decision maker

PER_DEC: Decision maker

Type	PER_DEC: Decision maker
Description	Description: ----- Decision makers are the owners of the essential elements (information and functions) and the line managers of the organisation or specific project. Examples: ----- Top management, Project leader. Affiliated entity types and sub-types: ----- PER: Personnel The personnel type consists of all the groups of persons involved in the information system.

2.4.2 PER_UTI : Users

PER_UTI: Users

Type	PER_UTI: Users
Description	Description: ----- Users are the personnel who handle sensitive elements in the context of their activity and who have a special responsibility in this respect. They may have special access rights to the information system to carry out their everyday tasks. Examples: ----- Human resources management, Financial management, Risk manager. Affiliated entity types and sub-types: ----- PER: Personnel The personnel type consists of all the groups of persons involved in the information system.

2.4.3 PER_EXP : Operator / Maintenance

PER_EXP: Operator / Maintenance

Type	PER_EXP: Operator / Maintenance
Description	Description: ----- These are the personnel in charge of operating and maintaining the information system. They have special access rights to the information system to carry out their everyday tasks.

Examples:

System administrator, data administrator, back-up, Help Desk, application deployment operator, security officers.

Affiliated entity types and sub-types:

PER: Personnel

The personnel type consists of all the groups of persons involved in the information system.

2.4.4 PER_DEV : Developer

PER_DEV: Developer

Type	PER_DEV: Developer
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Description	Description:
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Developers are in charge of developing the organisation's applications. They have access to part of the information system with high-level rights but do not take any action on the production data.

Examples:

Business application developers.

Affiliated entity types and sub-types:

PER: Personnel

The personnel type consists of all the groups of persons involved in the information system.

2.5 PHY : Site

PHY: Site

Type	PHY: Site
Description	Description: ----- The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate.

2.5.1 PHY_LIE : Places

PHY_LIE: Places

Type	PHY_LIE: Places
Description	Description: ----- Perimeters, physical enclosures.

PHY_LIE.1: External environment

Type	PHY_LIE.1: External environment
Description	Description: ----- This concerns all the places in which the organisation's means of security cannot be applied. Examples: ----- Homes of the personnel, premises of another organisation, environment outside the site (urban area, hazard area). Affiliated entity types and sub-types: ----- PHY: Site The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate. PHY_LIE: Place Perimeters, physical enclosures.

PHY_LIE.2: Premises

Type	PHY_LIE.2: Premises
Description	Description: ----- This place is bounded by the organisation's perimeter directly in contact with the outside. This may be a physical protective boundary obtained by creating physical barriers or means of surveillance around buildings. Examples: ----- Establishment, buildings. Affiliated entity types and sub-types: ----- PHY: Site The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate. PHY_LIE: Place Perimeters, physical enclosures.

PHY_LIE.3: Zone

Type	PHY_LIE.3: Zone
Description	<p>Description:</p> <p>-----</p> <p>A zone is formed by a physical protective boundary forming partitions within the organisation's premises. It is obtained by creating physical barriers around the organisation's information processing infrastructures.</p> <p>Examples:</p> <p>-----</p> <p>Offices, reserved access zone, secure zone.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>PHY: Site The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate.</p> <p>PHY_LIE: Place Perimeters, physical enclosures.</p>

2.5.2 PHY_SRV : Essential service

PHY_SRV: Essential service

Type	PHY_SRV: Essential service
Description	<p>Description:</p> <p>-----</p> <p>All the services required for the organisation's equipment to operate.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>PHY: Site The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate.</p>

PHY_SRV.1: Communication

Type	PHY_SRV.1: Communication
Description	<p>Description:</p> <p>-----</p> <p>Telecommunications services and equipment provided by an operator.</p> <p>Examples:</p> <p>-----</p> <p>Telephone line, PABX, internal telephone networks.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>PHY: Site The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate.</p> <p>PHY_SRV: Essential service All the services required for the organisation's equipment to operate</p>

PHY_SRV.2: Power

Type	PHY_SRV.2: Power
Description	<p>Description:</p> <p>-----</p> <p>Services and means (sources and wiring) required for providing power to information technology equipment and peripherals.</p> <p>Examples:</p> <p>-----</p>

	<p>Low voltage power supply, inverter, electrical circuit head-end.</p> <p>Affiliated entity types and sub-types: -----</p> <p>PHY: Site The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate.</p> <p>PHY_SRV: Essential service All the services required for the organisation's equipment to operate.</p>
<p>PHY_SRV.3: Cooling / pollution</p>	
<p>Type</p>	<p>PHY_SRV.3: Cooling / pollution</p>
<p>Description</p>	<p>Description: -----</p> <p>Services and means (equipment, control) for cooling and purifying the air.</p> <p>Examples: -----</p> <p>Chilled water pipes, air-conditioners.</p> <p>Affiliated entity types and sub-types: -----</p> <p>PHY: Site The site type comprises all the places containing the system, or part of the system, and the physical means required for it to operate.</p> <p>PHY_SRV: Essential service All the services required for the organisation's equipment to operate.</p>

2.6 ORG : Organisation

ORG: Organisation

Type	ORG: Organisation
Description	Description : ----- The organisation type describes the organisational framework, consisting of all the personnel structures assigned to a task and the procedures controlling these structures.

2.6.1 ORG_DEP : Higher-tier organisation

ORG_DEP: Higher-tier organisation

Type	ORG_DEP: Higher-tier organisation
Description	Description: ----- These are organisations on which the studied organisation depends. They may be legally affiliated or external. This imposes constraints on the studied organisation in terms of regulations, decisions, actions or reporting of information. Examples: ----- Administrating body, Head office of an organisation, Court of auditors. Affiliated entity types and sub-types: ----- ORG The organisation type describes the organisational framework, consisting of all the personnel structures assigned to a task and the procedures controlling these structures.

2.6.2 ORG_GEN : Structure of the organisation

ORG_GEN: Structure of the organisation

Type	ORG_GEN: Structure of the organisation
Description	Description: ----- This consists of the various branches of the organisation, including its cross-functional activities, under the control of its management. Examples: ----- Human resources management, IT management, purchasing management, business unit management, building safety service, fire service, audit management. Affiliated entity types and sub-types: ----- ORG The organisation type describes the organisational framework, consisting of all the personnel structures assigned to a task and the procedures controlling these structures.

2.6.3 ORG_PRO : Project or system organisation

ORG_PRO: Project or system organisation

Type	ORG_PRO: Project or system organisation
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Description	<p>Description: ----- This concerns the organisation set up for a specific project or service.</p> <p>Examples: ----- New application development project, information system migration project.</p> <p>Affiliated entity types and sub-types: ----- ORG The organisation type describes the organisational framework, consisting of all the personnel structures assigned to a task and the procedures controlling these structures.</p>
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2.6.4 ORG_EXT : Subcontractors / Suppliers / Manufacturers

ORG_EXT: Subcontractors / Suppliers / Manufacturers

Type	ORG_EXT: Subcontractors / Suppliers / Manufacturers
Description	<p>Description: ----- An organisation providing the organisation with a service or resources and bound to it by contract.</p> <p>Examples: ----- Facilities management company, outsourcing company, consultancy companies.</p> <p>Affiliated entity types and sub-types: ----- ORG The organisation type describes the organisational framework, consisting of all the personnel structures assigned to a task and the procedures controlling these structures.</p>

2.7 SYS : System

SYS: System

Type	SYS: System
Description	Description: ----- The system type consists of all specific facilities linked to information technologies, with a specific objective and operational environment. It is composed of various entities belonging to other types described above.

2.7.1 SYS_INT : Internet access device

SYS_INT: Internet access device

Type	SYS_INT: Internet access device
Description	Description: ----- A device that dials the interconnection between the organisation's network and the Internet network and provides access services to or from the Internet. Examples: ----- Filtering device, DMZ, gateways. Affiliated entity types and sub-types: ----- SYS: System The system type consists of all specific facilities linked to information technologies, with a specific objective and operational environment. It is composed of various entities belonging to other types described above.

2.7.2 SYS_MES : Electronic messaging

SYS_MES: Electronic messaging

Type	SYS_MES: Electronic messaging
Description	Description: ----- A device allowing authorised users to type, query and send computerised documents or electronic messages from or to computers connected in network. Examples: ----- Internal electronic mail, Web electronic mail. Affiliated entity types and sub-types: ----- SYS: System The system type consists of all specific facilities linked to information technologies, with a specific objective and operational environment. It is composed of various entities belonging to other types described above.

2.7.3 SYS_ITR : Intranet

SYS_ITR: Intranet

Type	SYS_ITR: Intranet
Description	Description: ----- Shared and private data and information services, using communication protocols

and core technologies (Internet technology for example).

Examples:

Internal information system.

Affiliated entity types and sub-types:

SYS: System

The system type consists of all specific facilities linked to information technologies, with a specific objective and operational environment. It is composed of various entities belonging to other types described above.

2.7.4 SYS_ANU : Company directory

SYS_ANU: Company directory

Type	SYS_ANU: Company directory
Description	<p>Description:</p> <p>-----</p> <p>A device for managing and accessing a data base describing the company's personnel and their characteristics.</p> <p>Examples:</p> <p>-----</p> <p>Management of application rights.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>SYS: Systeme</p> <p>The system type consists of all specific facilities linked to information technologies, with a specific objective and operational environment. It is composed of various entities belonging to other types described above.</p>

2.7.5 SYS_WEB : External portal

SYS_WEB: External portal

Type	SYS_WEB: External portal
Description	<p>Description:</p> <p>-----</p> <p>An external portal is a point of access that a user will find or use when he looks for information or a service provided by the organisation. Portals provide a wide range of resources and services.</p> <p>Examples:</p> <p>-----</p> <p>Information portal, teleprocedure portal, electronic business site.</p> <p>Affiliated entity types and sub-types:</p> <p>-----</p> <p>SYS: System</p> <p>The system type consists of all specific facilities linked to information technologies, with a specific objective and operational environment. It is composed of various entities belonging to other types described above.</p>

3 Generic attack methods and threat agents

The following table presents attack methods, showing the main ways in which they can violate security criteria. They are classified according to a representative theme (but may nonetheless be assigned to more than one theme).

Méthodes d'attaque	Availability	Confidentiality	Integrity
1 - Physical damage			
01 - FIRE	X		X
02 - WATER DAMAGE	X		X
03 - POLLUTION	X		X
04 - MAJOR ACCIDENT	X		X
05 - DESTRUCTION OF EQUIPMENT OR MEDIA	X		X
2 - Natural events			
06 - CLIMATIC PHENOMENON	X		X
07 - SEISMIC PHENOMENON	X		X
08 - VOLCANIC PHENOMENON	X		X
09 - METEOROLOGICAL PHENOMENON	X		X
10 - FLOOD	X		X
3 - Loss of essential services			
11 - FAILURE OF AIR-CONDITIONING	X		
12 - LOSS OF POWER SUPPLY	X		
13 - FAILURE OF TELECOMMUNICATION EQUIPMENT	X		
4 - Disturbance due to radiation			
14 - ELECTROMAGNETIC RADIATION	X		X
15 - THERMAL RADIATION	X		X
16 - ELECTROMAGNETIC PULSES	X		X
5 - Compromise of information			
17 - INTERCEPTION OF COMPROMISING INTERFERENCE SIGNALS		X	
18 - REMOTE SPYING	X	X	X
19 - EAVESDROPPING		X	
20 - THEFT OF MEDIA OR DOCUMENTS		X	
21 - THEFT OF EQUIPMENT	X	X	
22 - RETRIEVAL OF RECYCLED OR DISCARDED MEDIA		X	
23 - DISCLOSURE		X	
24 - DATA FROM UNTRUSTWORTHY SOURCES	X		X
25 - TAMPERING WITH HARDWARE		X	
26 - TAMPERING WITH SOFTWARE	X	X	X
27 - POSITION DETECTION		X	
6 - Technical failures			
28 - EQUIPMENT FAILURE	X		
29 - EQUIPMENT MALFUNCTION	X		
30 - SATURATION OF THE INFORMATION SYSTEM	X		
31 - SOFTWARE MALFUNCTION	X		X
32 - BREACH OF INFORMATION SYSTEM	X		

MAINTAINABILITY			
7 - Unauthorised actions			
33 - UNAUTHORISED USE OF EQUIPMENT	X	X	X
34 - FRAUDULENT COPYING OF SOFTWARE		X	
35 - USE OF COUNTERFEIT OR COPIED SOFTWARE	X		
36 - CORRUPTION OF DATA		X	X
37 - ILLEGAL PROCESSING OF DATA		X	
8 - Compromise of functions			
38 - ERROR IN USE	X	X	X
39 - ABUSE OF RIGHTS	X	X	X
40 - FORGING OF RIGHTS	X	X	X
41 - DENIAL OF ACTIONS			X
42 - BREACH OF PERSONNEL AVAILABILITY	X		

Attack methods are described according to the threat agents capable of using them.

Theme 1 – Physical damage

01 - FIRE

Description	<p>Type ----- Natural / Human / Environmental</p> <p>Accidental cause ----- Concentration of flammable or explosive materials in a confined environment, catching fire through an external event or internal accident.</p> <p>Examples ----- Lightning, waste-paper bin fire, short circuit.</p> <p>Deliberate cause ----- Terrorists or vandals gaining access to property in order to set light to flammable or explosive materials directly or indirectly (incendiary bombs, tampering with ventilation devices, etc.).</p> <p>Examples ----- Striker gaining access to premises (through the IT room windows for example) to place an incendiary device in them.</p> <p>Types of consequence ----- Destruction of assets. Danger to personal safety. Financial loss. Disturbance of internal operation.</p>
Severities	<p>Integrity Availability</p>

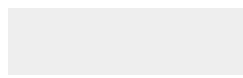
02 - WATER DAMAGE

Description	<p>Type ----- Natural / Human / Environmental.</p> <p>Accidental cause ----- Flood due to a leak or burst pipe.</p> <p>Examples ----- Leakage from air-conditioning equipment, leakage from a water room on the floor above, fire nozzle open.</p> <p>Deliberate cause ----- Terrorists or vandals gaining access to the property to cause flooding in the rooms.</p> <p>Examples ----- Deliberate breakage of pipes, triggering of extinguishing systems or simply spraying the equipment.</p>
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	Types of consequence ----- Destruction or temporary unavailability of an asset. Financial loss. Disturbance of internal operation.
Severities	Integrity Availability

03 - POLLUTION

Description	Type ----- Natural / Human / Environmental. Accidental cause ----- Presence of dust, vapours, corrosive or toxic gases in the ambient air. Examples ----- Exhaust gases in an area of heavy traffic. Deliberate cause ----- Deliberate pollution of the ambient air by tampering with air-conditioning devices or placing a source of pollution in the rooms. Examples ----- Malicious access and placing of pollutant in ventilation, heating or air-conditioning ducts. Types of consequence ----- Destruction of an asset. Danger to personal safety. Availability of operational personnel.
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Severities

Integrity
Availability

04 - MAJOR ACCIDENT

Description

Type

Natural / Environmental.

Accidental cause

External event or damage linked to the natural or industrial environment close to the assets and capable of causing them very serious physical damage.

Examples

Explosion of industrial sites in the vicinity, landslides, tidal wave, aircraft crashes, vehicle damaged or destroyed in a collision, etc.

Deliberate cause

External event or damage linked to an act of vandalism or terrorism close to the assets capable of causing them very serious physical damage.

Examples

Explosion of industrial sites in the vicinity, landslides, aircraft crashes, vehicle damaged or destroyed in a collision.

Types of consequence

Destruction of an asset.

Danger to personal safety.

Financial loss.

Shutdown of operation.

Severities Integrity
Availability

05 - DESTRUCTION OF EQUIPMENT OR MEDIA

Description Type

Human

Accidental cause

Negligence or accidental event causing destruction of equipment or media.

Examples

Negligence during the transporting of equipment.
Storage of archive media in an unsuitable environment.
Damage caused by an animal.
Spilling food or drink on equipment.

Deliberate cause

Person gaining access to equipment and causing its destruction.

Examples

Destruction of a machine and its back-ups (cartridge).

Types of consequence

Loss of data.
Financial losses linked to the value of the equipment destroyed.
Unavailability of the equipment.

Severities Integrity
Availability

Theme 2 – Natural events

06 - CLIMATIC PHENOMENON

Description	Type ----- Natural Accidental cause ----- Specific climatic conditions (at operating limits of the equipment). Examples ----- Site located in a geographical area prone to extreme heat, cold, humidity, wind or drought. Types of consequence ----- Destruction or temporary shutdown of an asset.
Severities	Integrity Availability

07 - SEISMIC PHENOMENON

Description	Type ----- Natural. Accidental cause ----- Earth tremor or earthquake causing extreme vibration or triggering a disaster (tidal wave). Examples -----
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	<p>Site housing an information system located in a geographical area subjected to frequent tremors.</p> <p>Types of consequence</p> <p>-----</p> <p>Destruction of an asset.</p> <p>Danger to personal safety.</p>
Severities	<p>Integrity</p> <p>Availability</p>

08 - VOLCANIC PHENOMENON

Description	<p>Type</p> <p>-----</p> <p>Natural.</p> <p>Accidental cause</p> <p>-----</p> <p>Volcanic eruption causing vibrations or triggering another disaster (tidal wave).</p> <p>Examples</p> <p>-----</p> <p>Site housing an information system located in a geographical area known to be volcanic (intermittent phenomenon, active phases alternating with possibly very long dormant phases).</p> <p>Types of consequence</p> <p>-----</p> <p>Destruction of an asset.</p> <p>Danger to personal safety.</p>
Severities	<p>Integrity</p> <p>Availability</p>

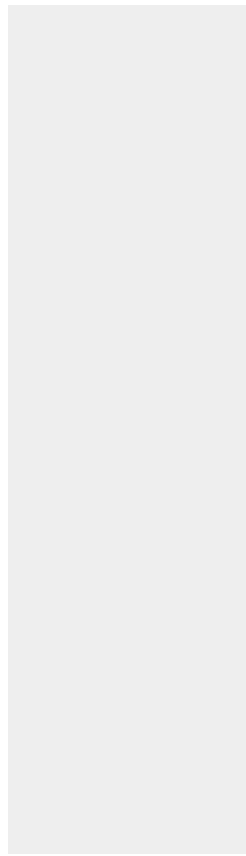
09 - METEOROLOGICAL PHENOMENON

Description	<p>Type</p> <p>-----</p>
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	<p>Natural / Human.</p> <p>Accidental cause</p> <p>-----</p> <p>Isolated atmospheric disturbance causing extreme climatic conditions</p> <p>Examples</p> <p>-----</p> <p>Storms, hurricanes, cyclones, hail, lightning, avalanche.</p> <p>Deliberate cause</p> <p>-----</p> <p>A saboteur gains access to lightning protection devices.</p> <p>Examples</p> <p>-----</p> <p>Disconnection of the earthing system, short-circuiting of spark gaps, movement of the devices.</p> <p>Types of consequence</p> <p>-----</p> <p>Destruction of an asset.</p> <p>Danger to personal safety.</p>
Severities	<p>Integrity</p> <p>Availability</p>

10 - FLOOD

Description	<p>Type</p> <p>-----</p> <p>Natural.</p> <p>Accidental cause</p>
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River, watercourse or underground water table causing periodic or exceptional flooding of land close by.

Examples

The site may be located in a flood-prone area and be flooded by a river close by, or may be further away but subjected to the consequences of this flooding (landslide).

Types of consequence

Destruction of an asset.

Danger to personal safety.

Financial loss.

Severities

Integrity
Availability

Theme 3 – Loss of essential services

11 - FAILURE OF AIR-CONDITIONING

Description	Type

	Human / Environmental.
	Accidental cause

	Failure, shutdown or inadequacy of the air-conditioning service may cause assets requiring cooling or ventilation to shut down, malfunction or fail completely.
	Examples

	Lack of maintenance for air-conditioning equipment, incorrect sizing of air-conditioning equipment, water supply cut off by the supplier.
	Deliberate cause

	A person can sabotage the equipment used to operate the air-conditioning system (cut off the water or power supply, destroy the system).
	Examples

	Shutdown of air-conditioning, water supply cut.
	Types of consequence

	Damage to assets.
	Availability
Severities	Availability

12 - LOSS OF POWER SUPPLY

Description	Type
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Human / Environmental.

Accidental cause

Failure, shutdown or incorrect sizing of the power supply to the assets arising either from the supplier's service or from the internal distribution system.

Examples

Interruption of the power company's service through strikes, breakdowns or work.

Fault or incorrect sizing of the internal power generator or emergency mains if these installations exist.

Connection of equipment with power rating in excessive of the emergency mains rating resulting in failure of the emergency equipment.

Lack of maintenance or ageing of the inverter batteries.

Accidental cutting of internal or external cables.

Interruption of water supply (by the supplier, or through internal error or negligence).

Deliberate cause

Sabotage or disturbance of the electrical installation by someone gaining access to the equipment (head-end, low voltage transformer, inverter, etc.)

Examples

Deliberate cutting of power provider's cables, deliberate shutting off of water supply.

Type of consequence

Temporary interruption of electricity supply or air-conditioning service.

Severities

Availability

13 - FAILURE OF TELECOMMUNICATION EQUIPMENT

Description

Type

Human / Environmental.

Accidental cause

Disturbance, shutdown or incorrect sizing of telecommunications services (telephone, Internet access, Internet network).

Examples

Strikes, exceptional external event causing call saturation.

Deliberate cause

Sabotage or disturbance of the Telecom installation by someone gaining access to the telecommunications equipment (head-end, PABX, distribution frame, external cables, etc.)

Examples

Deliberate cutting of Telecom cables, destruction of an external exchange, deliberate saturation of the telecommunication passband.

Type of consequence

Slight or prolonged interruption of Telecommunication services.

Financial loss.

Severities

Availability

Theme 4 – Disturbance due to radiation

14 - ELECTROMAGNETIC RADIATION

Description	<p>Type ----- Human / Environmental.</p> <p>Accidental cause ----- Electromagnetic interference from an internal or external device.</p> <p>Examples ----- Radar, radio antenna, electricity generating station, machining tool.</p> <p>Deliberate cause ----- Person using stray radiation to jam or saturate communications or disturb the operation of an appliance.</p> <p>Examples ----- Jamming of WIFI communication.</p> <p>Type of consequence ----- Distortion of cathode ray tube display, communication jamming. Modification or disturbance of operation.</p>
Severities	<p>Integrity Availability</p>

15 - THERMAL RADIATION

Description	<p>Type ----- Human / Natural / Environmental.</p> <p>Accidental cause ----- Thermal effect caused by a damage or exceptional weather conditions.</p> <p>Examples ----- Forest fire creating conditions that exceed the operating characteristics of the equipment.</p> <p>Deliberate cause ----- Device causing a thermal effect resulting in malfunction or destruction of equipment.</p> <p>Examples ----- Placing of nuclear waste close to the information system, thermo-nuclear explosion.</p> <p>Type of consequence ----- Malfunction or destruction of equipment. Danger to personal safety. Financial loss.</p>
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Severities	Integrity Availability
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16 - ELECTROMAGNETIC PULSES

Description	<p>Type</p> <p>-----</p> <p>Environmental.</p> <p>Accidental cause</p> <p>-----</p> <p>Damage causing an exceptional electromagnetic effect.</p> <p>Examples</p> <p>-----</p> <p>Industrial accident close to the site.</p> <p>Deliberate cause</p> <p>-----</p> <p>Electromagnetic pulses from nuclear sources.</p> <p>Examples</p> <p>-----</p> <p>Bombs.</p> <p>Type of consequence</p> <p>-----</p> <p>Destruction of property. Financial loss.</p>
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Severities	Integrity Availability
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Theme 5 – Compromise of information

17 - INTERCEPTION OF COMPROMISING INTERFERENCE SIGNALS

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- Interfering signals from an electromagnetic source emitted by the equipment (by conduction on the electrical power supply cables or earth wires or by radiation in free space). Capture of these signals depends on the distance to the targeted equipment or the possibility of connecting to cables or any other conductor passing close to the equipment (coupling phenomenon).</p> <p>Examples ----- Spy or cracker intercepting or recording electromagnetic signals using sensors and electronic equipment on pipes. Spy or cracker intercepting and recording electromagnetic signals from radiation emitted by a video display terminal.</p> <p>Type of consequence ----- Disclosure of communications or processing.</p>
Severities	Confidentiality

18 - REMOTE SPYING

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- Personnel actions observable from a distance.</p> <p>Examples ----- Visual observation with or without optical equipment, for example observation of a user entering a code or password on a keyboard.</p> <p>Type of consequence ----- Intrusion. Misuse of identity.</p>
Severities	Integrity Confidentiality Availability

19 - EAVESDROPPING

Description	<p>Type ----- Human.</p>
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	<p>Deliberate cause</p> <p>-----</p> <p>Someone connected to communication equipment or media or located inside the transmission coverage boundaries of a communication can use equipment, which may be very expensive, to listen to, save and analyse the information transmitted (voice or data).</p> <p>Examples</p> <p>-----</p> <p>Both radio and conducted signals can be intercepted. Sensors are used (for example an antenna for radio signals).</p> <p>Infrared communications may also be intercepted.</p> <p>For wire communications, a device already connected to the network (such as a workstation in a local network) can be used to store and analyse transmitted information (such as information exchanged with a server). Many commercial products are available to assist analysis and interpret frames in any communication protocol in real time..</p> <p>Type of consequence</p> <p>-----</p> <p>Disclosure of information transmitted on a communication medium.</p>
Severities	Confidentiality

20 - THEFT OF MEDIA OR DOCUMENTS

Description	<p>Type</p> <p>-----</p> <p>Human.</p> <p>Deliberate cause</p> <p>-----</p> <p>Someone inside or outside the organisation accessing digital media or paper documents with the intention of stealing and using the information on them.</p> <p>Examples</p> <p>-----</p> <p>Theft of floppy discs, CD-ROMs, cartridges, back-up tapes. Theft of files, notes, drawings, reports. Theft of printouts left temporarily on printers in shared rooms. Searching in waste paper bins left on public ways.</p> <p>Type of consequence</p> <p>-----</p> <p>Disclosure of information (assets, passwords).</p>
Severities	Confidentiality

21 - THEFT OF EQUIPMENT

Description	<p>Type</p> <p>-----</p> <p>Human.</p> <p>Deliberate cause</p> <p>-----</p> <p>Someone inside or outside the organisation accessing equipment located on the premises or transported outside, out of greed or for strategic reasons.</p> <p>Examples</p> <p>-----</p> <p>Theft of a laptop computer to sell it, theft of a PDA to make use of its contents.</p> <p>Type of consequence</p> <p>-----</p> <p>Loss of information and/or functions (for example portable equipment used for maintenance).</p> <p>Disclosure of the information stored on the equipment (for example passwords, extracts from information assets).</p> <p>Financial loss.</p>
Severities	<p>Confidentiality</p> <p>Availability</p>

22 - RETRIEVAL OF RECYCLED OR DISCARDED MEDIA

Description	<p>Type</p> <p>-----</p> <p>Human.</p> <p>Accidental cause</p> <p>-----</p> <p>Retrieval of electronic media (hard discs, floppy discs, back-up cartridges, USB keys, ZIP discs, removable hard discs, etc.) or paper copies (lists, incomplete print-outs, messages, etc.) intended for recycling and containing retrievable information.</p> <p>Example</p> <p>-----</p> <p>Recycling of computers whose hard discs have not been formatted, for use by other users in the same organisation, schools, other organisations. Reuse of paper for rough copies in the same organisation or outside.</p> <p>Deliberate cause</p> <p>-----</p> <p>Retrieval of electronic media (hard discs, floppy discs, back-up cartridges, USB</p>
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	<p>keys, ZIP discs, removable hard discs, etc.) or paper copies (lists, incomplete print-outs, messages, etc.) intended for destruction and containing retrievable information.</p> <p>Example ----- Searching in waste paper bins left on public ways.</p> <p>Type of consequence ----- Loss of customer confidence. Disclosure of information.</p>
Severities	Confidentiality

23 - DISCLOSURE

Description	<p>Type ----- Human. Accidental cause ----- Someone inside the organisation who, through negligence, passes information to others in the organisation who have no need to know or to the outside (the latter case usually having greater consequences). Examples ----- Message sent to the wrong recipient. Response to enquiries without checking the source (malicious request for passwords). Unfamiliarity with the information distribution rules applied in the organisation. Oversight committed in the definition of the rules controlling access to shared information. Failure to comply with basic rules of discretion (discussion or reading a document in public places).</p> <p>Deliberate cause ----- Someone knowingly passing on information inside the organisation to others who have no need to know or to the outside (the latter case usually having greater consequences). Examples ----- Someone passing on confidential information by electronic messaging out of revenge. Someone disclosing information under the belief that being in possession of sensitive information gives him/her a certain power over others. Passing on information to a third party under the pressure of blackmail.Using industrial or commercial information for financial gain (industrial espionage).</p> <p>Type of consequence ----- Attack on users' private life. Disclosure of information assets. Financial loss.</p>
Severities	Confidentiality

24 - DATA FROM UNTRUSTWORTHY SOURCES

Description	<p>Type ----- Human.</p>
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	<p>Accidental cause ----- Receiving false data or unsuitable equipment from outside sources and using them in the organisation.</p> <p>Examples ----- Information from a discussion forum. Downloading updates from Internet sites that do not belong to the developer concerned. Information received without sender identification or authentication, for example receiving electronic mail transmitted by a generic company identification (support@société.com).</p> <p>Deliberate cause ----- Someone transmitting false information for integration in the information system with the intention of misinforming the recipient and attacking the reliability of the system or validity of its information.</p> <p>Examples ----- Transmitting hoaxes by electronic messaging. Someone transmitting data and pretending to be the legitimate source.</p> <p>Type of consequence ----- Corruption of data or processing. Wasted use of human resources. Loss of customer confidence.</p>
Severities	<p>Integrity Availability</p>

25 - TAMPERING WITH HARDWARE

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- Someone with access to a communication medium or equipment installs an interception or destruction device in it.</p> <p>Examples ----- Inserting a PCB in a micro-computer during its transport. Setting up a microphone in equipment. Tapping voice or data communication circuits. Trapping a function of a protection device to disable it and then commit an attack.</p> <p>Type of consequence ----- Disclosure of information outside the organisation. Destruction of a device during a critical period. Disabled protection function.</p>
Severities	<p>Confidentiality</p>

26 - TAMPERING WITH SOFTWARE

Description	<p>Type ----- Human / Environmental.</p>
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	<p>Accidental cause ----- Unintentional action involving software carried out from inside or outside the organisation and resulting in corruption or destruction of programmes or data, impaired operation of the resource or even execution of commands in a user's name without his/her knowledge.</p> <p>Examples ----- User connecting a laptop computer to a network infected by a virus, introduced during an exchange with a different organisation. An information system user receiving a worm from a source outside the organisation and unknowingly spreading it inside the organisation.</p> <p>Deliberate cause ----- The attacker introduces a programme or commands in order to modify the behaviour of a programme or add an unauthorised service to an operating system. This threat agent may act on the information system during the design, pre-production, production, operating, transport or maintenance phase.</p> <p>Examples ----- Having a user run a programme by simulating an action that is authorised but contains hidden functions capable of infringing the security policy (Trojan horse). A logic bomb added to a programme by the programmer to insert a command, generally with a triggering condition (date, contextual event), which runs an unauthorised action.</p> <p>Types of consequence ----- Intrusion. Disturbance of operation. Destruction of data. Corruption of the software.</p>
Severities	<p>Integrity Confidentiality Availability</p>

27 - POSITION DETECTION

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- Someone with access to equipment used to detect the position of an information system user.</p> <p>Examples ----- Access to entry/exit records. Access to ticket requests. Use of antennas to which mobile phones are connected during operation in order to detect a person's position.</p> <p>Types of consequence ----- Use of information to carry out targeted attacks.</p>
Severities	<p>Confidentiality</p>

Theme 6 – Technical failures

28 - EQUIPMENT FAILURE

Description	<p>Type ----- Human / Natural.</p> <p>Accidental cause ----- Event causing equipment failure.</p> <p>Examples ----- Wear, ageing, lack of maintenance or incorrect use (for example, incorrect sizing, use outside the operating limits) causing a failure.</p> <p>Types of consequence ----- Unavailability of an equipment item. Corruption or loss of information.</p>
Severities	Availability

29 - EQUIPMENT MALFUNCTION

Description	<p>Type ----- Human / Natural.</p> <p>Accidental cause ----- A logical or physical event causing an equipment item to malfunction.</p> <p>Examples ----- Failure to follow equipment qualification procedures after updates or upgrades. Unintentional damage to an equipment item. Use of equipment under conditions outside its operating limits (temperature, humidity). Wear or ageing of equipment.</p> <p>Types of consequence ----- Interrupted operation of a device which, through a side effect, may result in unavailability of the information system.</p>
Severities	Availability

30 - SATURATION OF THE INFORMATION SYSTEM

Description	<p>Type ----- Human.</p> <p>Accidental cause ----- Hardware, software or network resource inadequate for meeting users' needs.</p> <p>Examples ----- Overload of storage space (e.g. back-up space, mailbox storage, work area, etc.) for example, saturation of a mailbox when its owner is absent for long periods. Saturation due to overworking the machine (too many requests processed</p>
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	<p>simultaneously). Equipment incorrectly sized (inverters, communication channels, etc.)</p> <p>Deliberate cause ----- An attacker simulates an intense demand on resources by setting up continuous bombardment.</p> <p>Examples ----- Running a very large number of simultaneous commands. Deliberate saturation of space used for storing system or application activity tracks in order to hide unauthorised operations.</p> <p>Types of consequence ----- Shutdown causing temporary unavailability of the service. Loss of information.</p>
Severities	Availability

31 - SOFTWARE MALFUNCTION

Description	<p>Type ----- Human / Environmental.</p> <p>Accidental cause ----- Design error, installation error or operating error committed during modification causing incorrect execution.</p> <p>Examples ----- Implementation error resulting in incorrect processing of data at terminals. Installation of software causing side effects. Failure to comply with installation or operation procedures. Error committed during maintenance operations.</p> <p>Types of consequence ----- Interruption of service. Incorrect operation. Production of corrupted data.</p>
Severities	Integrity Availability

32 - BREACH OF INFORMATION SYSTEM MAINTAINABILITY

Description	<p>Type ----- Human / Environmental.</p> <p>Accidental cause ----- Lack of expertise in the system making retrofitting and upgrading impossible; for example, inability to correct an operating problem or respond to new needs.</p> <p>Examples ----- Failure of hardware and software suppliers. Failure of external software and hardware maintenance companies, termination of support contract leaving a lack of competency or resources for system upgrading.</p>
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A system modified so many times that it has become difficult, or even impossible, to maintain without the risk of side effects after modification.

Deliberate cause

Someone making the system difficult, or even impossible, to upgrade.

Examples

Out of spite, a person leaves no records or help for maintaining the system (rendering it opaque).

Types of consequence

Prolonged interruption of service.

Breach of operating security.

Financial losses resulting from replacing equipment or changing supplier.

Severities

Availability

Theme 7 – Unauthorised actions

33 - UNAUTHORISED USE OF EQUIPMENT

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- A person inside or outside the organisation accesses the information system and uses one of its services to penetrate it, run operations or steal information.</p> <p>Examples ----- Theft of authorised user identification/authentication data in order to acquire user rights and bypass access checks, access to protected areas from an authorised access using a flaw in the application mechanisms to bypass the protection system. Reading and looking up information from residual data on electronic media (cache memory file, snippets of residual information on hard discs, context back-ups - restore points used to undo problems - containing system status information that can be looked up by a well-informed attacker). Simulation of machine behaviour to deceive an authorised user and acquire his/her name and password. Deliberate modification or destruction of data.</p> <p>Types of consequence ----- Intrusion into the information system. Disclosure of information.</p>
Severities	<p>Integrity Confidentiality Availability</p>

34 - FRAUDULENT COPYING OF SOFTWARE

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- Someone inside the organisation makes fraudulent copies (also called pirated copies) of package software or in-house software.</p> <p>Examples ----- Copying the organisation's software for fun, out of revenge (broadcasting via Internet) or out of greed (sale).</p> <p>Types of consequence ----- Financial loss. Loss of customer confidence.</p>
Severities	<p>Confidentiality</p>

35 - USE OF COUNTERFEIT OR COPIED SOFTWARE

Description	<p>Type ----- Human / Environmental.</p>
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	<p>Accidental cause ----- Loss or destruction of documents proving the purchase of licences or negligence committed by installing software without paying for the licence.</p> <p>Examples ----- Proof of purchase accidentally destroyed. Inability to produce a licence inventory.</p> <p>Deliberate cause ----- Someone inside the organisation makes illegal use of copied software.</p> <p>Examples ----- Software copied without licence to carry out an authorised task in the organisation.</p> <p>Types of consequence ----- Breach of the law. Loss of customer confidence.</p>
Severities	Availability

36 - CORRUPTION OF DATA

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- Someone gains access to the communication equipment of the information system and corrupts transmission of information (by intercepting, inserting, destroying, etc.) or repeatedly attempts access until successful.</p> <p>Examples ----- Destroying, inserting or modifying messages (modifying information, rearranging information within messages or rearranging the order of messages). Denial of service (delaying a message). IP address sweep from outside the organisation until an address giving access to the information system is found.</p> <p>Types of consequence ----- Intrusion. Corruption of communications.</p>
Severities	Integrity Confidentiality

37 - ILLEGAL PROCESSING OF DATA

Description	<p>Type ----- Human.</p> <p>Deliberate cause ----- A person carries out information processing that is forbidden by the law or a regulation.</p>
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	<p>Examples ----- Creating and using an undeclared personal data file (illegal use of records). Carrying out forbidden operations on declared personal data files such as comparing several files. Encrypting data for reasons of confidentiality using long keys without prior authorisation. Illegal use of data from a recycled computer.</p> <p>Types of consequence ----- Attack on users' private life. Judicial proceedings and penalties.</p>
Severities	Confidentiality

Theme 8 – Compromise of functions

38 - ERROR IN USE

Description	<p>Type ----- Human.</p> <p>Accidental cause ----- A person commits an operating error, input error or utilisation error on hardware or software.</p> <p>Examples ----- Loss of data following an error during back-up operations. Failure to comply with installation or maintenance procedures. Error by console operator entering a large amount of data containing figures. Negligence committed when setting the parameters of a protection programme. Recipient's address entered incorrectly on an e-mail.</p> <p>Types of consequence ----- Interruption of service. Corruption of data. Malfunction, loss of effectiveness of protection means, introduction of additional flaws. Unintentional disclosure of data.</p>
Severities	<p>Integrity Confidentiality Availability</p>

39 - ABUSE OF RIGHTS

Description	<p>Type ----- Human.</p> <p>Accidental cause ----- Someone with special rights (network administration, computer specialists, etc.) modifies the operating characteristics of the resources without informing the users.</p> <p>Examples ----- New access rights are created without taking into account the needs for protecting data stored by the users. Back-up procedure stopped without users being informed. Configuration parameters modified on servers causing side effect and malfunctions.</p> <p>Deliberate cause ----- Someone accesses the system to modify, delete or add operating characteristics or carry out any other unauthorised operation possible to holders of these rights.</p> <p>Examples ----- An administrator changes users' passwords. A maintenance agent modifies the behaviour of the security mechanisms to access protected information.</p>
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The event log is deleted on the application servers.

Types of consequence

Impaired operation.
Disclosure of information.
Loss of information.

Severities Integrity
Confidentiality
Availability

40 - FORGING OF RIGHTS

Description Type

Human.

Deliberate cause

A person assumes the identity of a different person in order to use his/her access rights to the information system, misinform the recipient, commit a fraud, etc.

Examples

A person assumes the identity of a user and, claiming to have lost a password, requests the administrator to cover his/her access.
A person takes over a session left open by its authorised user.

Types of consequence

Intrusion.

Severities Integrity
Confidentiality
Availability

41 - DENIAL OF ACTIONS

Description Type

Human.

Deliberate cause

A person or entity denies being involved in an exchange with a third party or carrying out an operation.

Examples

Someone denying that he/she has received or sent a given message or claiming to have sent (received) a different message (file) or claiming not to have carried out an operation.

Types of consequence

Absence of proof.

Severities Integrity

42 - BREACH OF PERSONNEL AVAILABILITY

Description Type

Human / Environmental.

	Accidental cause ----- Absence of qualified or authorised personnel held up for reasons beyond their control. Examples ----- Illness, death, transport strike. Deliberate cause ----- Deliberate absence of qualified or authorised personnel. Examples ----- Strikes, leave not approved by the organisation. Types of consequence ----- Stoppage, service disturbance.
Severities	Availability

4 Generic vulnerabilities

Vulnerabilities are arranged by attack method and indicate the types and sub-types concerned. Entity sub-types inherit the vulnerabilities of their entity type.

4.1 FIRE

Single copy of licence contracts

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP.1: Standard business application
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Single internally-developed applications

Types of entity	LOG_STD: Package software or standard software LOG_APP.2: Specific business application
-----------------	--

No substitution equipment

Types of entity	MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
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Equipment using flammable materials (e.g. bulk printers producing dust)

Types of entity	MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
-----------------	---

No back-up of data contained on the media

Types of entity	MAT_PAS.1: Electronic medium
-----------------	------------------------------

Original media

Types of entity	MAT_PAS.2: Other media
-----------------	------------------------

No insurance cover for serious damage

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers ORG_DEP: Higher-tier organisation ORG: Organisation
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No site inspection by emergency services (fire-fighting services)

Types of entity	ORG_DEP: Higher-tier organisation
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No installation standard for sites belonging to the organisation

Types of entity	ORG_DEP: Higher-tier organisation
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No contractual clauses guaranteeing cover of the activities if a crisis is declared at the supplier's site

Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
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No security instructions given to external personnel working on the premises

Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
-----------------	---

No management of emergency equipment inspection reports

Types of entity	ORG_GEN: Structure of the organisation
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No updated display of information for calling the emergency services

Types of entity ORG_GEN: Structure of the organisation

No fire-fighting organisation (description of roles and responsibilities)

Types of entity ORG_GEN: Structure of the organisation

No monitoring of maintenance contracts for fire-fighting equipment

Types of entity ORG_GEN: Structure of the organisation

No crisis management organisation

Types of entity ORG_PRO: Project or system organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No test of reaction and information procedures in the event of an accident

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No awareness programme for protection of security equipment

Types of entity PER_DEC: Decision maker

Conflictual industrial relations

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer

Presence of an opening onto a public right-of-way (window)

Types of entity PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises

Ageing of the premises

Types of entity PHY_LIE.2: Premises

No control of access to the site or premises

Types of entity PHY_LIE.2: Premises

No fire partitions

Types of entity PHY_LIE.2: Premises

No precautions taken at the installation phase for fire risks specific to the equipment housed.

Types of entity PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE.3: Zone

No sizing of the automatic fire extinction system, or incorrect sizing or inadequacy of

this system.

Types of entity	PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE.3: Zone
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No maintenance of air-conditioning equipment

Types of entity	PHY_SRV.3: Cooling / pollution
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VULNERABILITIES LINKED TO ATTACK METHOD 01 - FIRE

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE: Places PHY_LIE.3: Zone PHY_LIE.2: Premises PHY_LIE.1: External environment PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers ORG_DEP: Higher-tier organisation ORG: Organisation MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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4.2 WATER DAMAGE

Single copy of licence contracts

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP.1: Standard business application
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Single internally-developed applications

Types of entity	LOG_STD: Package software or standard software LOG_APP.2: Specific business application
-----------------	--

No substitution equipment

Types of entity	MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
-----------------	---

No back-up of data contained on the media

Types of entity	MAT_PAS.1: Electronic medium
-----------------	------------------------------

Original media

Types of entity	MAT_PAS.2: Other media
-----------------	------------------------

No insurance cover for serious damage

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers ORG_DEP: Higher-tier organisation ORG: Organisation
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No installation standard for sites belonging to the organisation

Types of entity	ORG_DEP: Higher-tier organisation
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No contractual clauses covering a crisis declared at a subcontractor's or supplier's site

Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
-----------------	---

No security instructions given to external personnel working on the premises

Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
-----------------	---

No management of emergency equipment inspection reports

Types of entity	ORG_GEN: Structure of the organisation
-----------------	--

No updated display of information for calling the emergency services

Types of entity	ORG_GEN: Structure of the organisation
-----------------	--

No warning, reaction or information instructions in the event of water damage (no identification of stop cocks, etc.)

Types of entity	ORG_GEN: Structure of the organisation
-----------------	--

No guarantee that water detectors are operating correctly

Types of entity	ORG_GEN: Structure of the organisation
-----------------	--

No crisis management organisation

Types of entity	ORG_PRO: Project or system organisation
-----------------	---

No test of reaction and information procedures in the event of an accident

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No awareness programme for protection of security equipment

Types of entity PER_DEC: Decision maker

Conflictual industrial relations

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer

Site located in flood-prone area

Types of entity PHY_LIE.1: External environment

No control of physical access points to the premises

Types of entity PHY_LIE.2: Premises

External opening not watertight

Types of entity PHY_LIE.2: Premises

Presence of a fire extinction system using water

Types of entity PHY_LIE.2: Premises

Ceiling or external opening not watertight

Types of entity PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE.3: Zone

No clear identification of water stop cocks

Types of entity PHY_LIE.3: Zone

Unprotected access point

Types of entity PHY_LIE.3: Zone

Water pipe close to equipment

Types of entity PHY_LIE.3: Zone

Fire extinction system using water

Types of entity PHY_LIE.3: Zone

Water pipe close to termination equipment

Types of entity PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE.3: Zone

No sump

Types of entity PHY_LIE.3: Zone

Unprotected access to rooms housing production equipment or distribution equipment for essential services

Types of entity PHY_SRV.2: Power
PHY_SRV.1: Communication

Wiring laid on the floor

Types of entity PHY_SRV.2: Power
PHY_SRV.1: Communication

Ageing of cooling pipes

Types of entity PHY_SRV.3: Cooling / pollution

No maintenance of air-conditioning equipment

Types of entity PHY_SRV.3: Cooling / pollution

No water stop cock

Types of entity PHY_SRV.3: Cooling / pollution

VULNERABILITIES LINKED TO ATTACK METHOD 02 - WATER DAMAGE

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network
PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution
PHY_SRV.2: Power
PHY_SRV.1: Communication
PHY_LIE: Places
PHY_LIE.3: Zone
PHY_LIE.2: Premises
PHY_LIE.1: External environment
PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel
ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers
ORG_DEP: Higher-tier organisation
ORG: Organisation
MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium
MAT_ACT: Data processing equipment (active)
MAT_ACT.3: Processing peripheral
MAT_ACT.2: Fixed equipment

MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.3 POLLUTION

Single copy of licence contracts

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP.1: Standard business application

Single internally-developed applications

Types of entity LOG_STD: Package software or standard software
 LOG_APP.2: Specific business application

Medium sensitive to storage conditions

Types of entity MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No monitoring of maintenance contracts

Types of entity ORG_GEN: Structure of the organisation

No measures in the event of interruption of air-conditioning service

Types of entity ORG_GEN: Structure of the organisation

No test of reaction and information procedures in the event of an accident

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No awareness programme for protection of security equipment

Types of entity PER_DEC: Decision maker

Conflictual industrial relations

Types of entity PER_UTI: Users

PER_EXP: Operator / Maintenance
 PER_DEV: Developer

Proximity of pollution sources (noise, smoke, vapour, etc.)

Types of entity PHY_LIE.2: Premises
 PHY_LIE.1: External environment

Polluted atmosphere (hangar, workshop, etc.)

Types of entity PHY_LIE.2: Premises

No maintenance of air-conditioning equipment

Types of entity PHY_SRV.3: Cooling / pollution

No correctly sized redundant equipment

Types of entity PHY_SRV.3: Cooling / pollution

Ageing of air-conditioning filters

Types of entity PHY_SRV.3: Cooling / pollution

Unprotected access to equipment

Types of entity PHY_SRV.3: Cooling / pollution

VULNERABILITIES LINKED TO ATTACK METHOD 03 - POLLUTION

Types of entity

- SYS_WEB: External portal
- SYS_MES: Electronic messaging
- SYS_ITR: Intranet
- SYS_INT: Internet access device
- SYS_ANU: Company directory
- SYS: System
- RES_REL: Passive or active relay
- RES_INT: Communication interface
- RES_INF: Medium and supports
- RES: Network
- PHY_SRV: Essential service
- PHY_SRV.3: Cooling / pollution
- PHY_SRV.2: Power
- PHY_SRV.1: Communication
- PHY_LIE: Places
- PHY_LIE.3: Zone
- PHY_LIE.2: Premises
- PHY_LIE.1: External environment
- PER_UTI: Users
- PER_EXP: Operator / Maintenance
- PER_DEV: Developer
- PER_DEC: Decision maker
- PER: Personnel
- ORG_PRO: Project or system organisation
- ORG_GEN: Structure of the organisation
- ORG_EXT: Subcontractors / Suppliers / Manufacturers
- ORG_DEP: Higher-tier organisation
- ORG: Organisation
- MAT_PAS: Data medium (passive)
- MAT_PAS.2: Other media
- MAT_PAS.1: Electronic medium

MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.4 MAJOR ACCIDENT

Single copy of licence contracts

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP.1: Standard business application

Single internally-developed applications

Types of entity LOG_STD: Package software or standard software
 LOG_APP.2: Specific business application

No substitution equipment

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No back-up of data contained on the media

Types of entity MAT_PAS.1: Electronic medium

Original media

Types of entity MAT_PAS.2: Other media

No emergency service close to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering a crisis declared at a subcontractor's or supplier's site

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No updated display of information for calling the emergency services

Types of entity ORG_GEN: Structure of the organisation

No insurance cover for serious damage

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No crisis management organisation

Types of entity ORG_PRO: Project or system organisation

	ORG_GEN: Structure of the organisation
Unfamiliarity with security measures	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
No emergency situation management procedures	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance
Possibilities of destruction caused by an external event (collisions, attacks)	
Types of entity	PHY_LIE.1: External environment
Proximity of industrial activity or potentially hazardous site	
Types of entity	PHY_LIE.1: External environment
Rooms in which explosion/implosion risks have not been taken into account	
Types of entity	PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE.3: Zone PHY_LIE.2: Premises
VULNERABILITIES LINKED TO ATTACK METHOD 04 - MAJOR ACCIDENT	
Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE: Places PHY_LIE.3: Zone PHY_LIE.2: Premises PHY_LIE.1: External environment PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers

ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.5 DESTRUCTION OF EQUIPMENT OR MEDIA

Single copy of licence contracts

Types of entity

- LOG_STD: Package software or standard software
- LOG_SRV: Service, maintenance or administration software
- LOG_OS: Operating system
- LOG_APP.1: Standard business application

Single internally-developed applications

Types of entity

- LOG_STD: Package software or standard software
- LOG_APP.2: Specific business application

No substitution equipment

Types of entity

- MAT_ACT: Data processing equipment (active)
- MAT_ACT.2: Fixed equipment
- MAT_ACT.1: Transportable equipment

Fragility of equipment

Types of entity

- MAT_ACT: Data processing equipment (active)
- MAT_ACT.2: Fixed equipment
- MAT_ACT.1: Transportable equipment

Equipment accessible to persons other than its owners (e.g. located in a passage way)

Types of entity

- MAT_ACT: Data processing equipment (active)
- MAT_ACT.2: Fixed equipment
- MAT_ACT.1: Transportable equipment

Medium accessible to persons other than its owners

Types of entity

- MAT_PAS: Data medium (passive)
- MAT_PAS.2: Other media
- MAT_PAS.1: Electronic medium

No archiving procedure

Types of entity

- MAT_PAS: Data medium (passive)
- MAT_PAS.2: Other media

MAT_PAS.1: Electronic medium

Fragility of media

Types of entity MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium

No archive storage measures suitable for the storage periods (ageing of tapes, wear of CD-ROMs)

Types of entity MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium

No back-up of data contained on the media

Types of entity MAT_PAS.1: Electronic medium

Original media

Types of entity MAT_PAS.2: Other media

No instructions given to external personnel working on the premises

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No insurance cover for destruction of equipment

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No rules for the use and storage of hardware and information media (protection conditions during transport, smoking ban, etc.)

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Conflictual industrial relations

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer

Inadequate awareness programme concerning physical protection of equipment

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer

No control of access to the site or premises or possibility of intrusion via indirect access routes.

Types of entity PHY_LIE.2: Premises
PHY_LIE.1: External environment

Unprotected physical access to rooms housing equipment or media.

Types of entity PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution

PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE.3: Zone

Media accessible to unauthorised persons

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network

Unidentified underground equipment

Types of entity RES_INF: Medium and supports

Equipment accessible to unauthorised persons

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

Fragility of equipment

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

VULNERABILITIES LINKED TO ATTACK METHOD 05 - DESTRUCTION OF EQUIPMENT OR MEDIA

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium

MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.6 CLIMATIC PHENOMENON

Conditions of use outside operating limits of the equipment

Types of entity

MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware

No installation standard for sites belonging to the organisation

Types of entity

ORG_DEP: Higher-tier organisation

No emergency service close to the organisation

Types of entity

ORG_DEP: Higher-tier organisation

No contractual clauses covering a crisis declared at a subcontractor's or supplier's site

Types of entity

ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions (warning, prevention, reaction, etc.)

Types of entity

ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity

PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No test of reaction and information procedures in the event of an accident

Types of entity

PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker

No means of ventilation or air-conditioning during excessive summer heat

Types of entity

PHY_LIE.3: Zone

PHY_LIE.2: Premises

Climatic conditions not taken into account in the construction of the premises

Types of entity PHY_LIE.3: Zone
PHY_LIE.2: Premises

Medium or equipment not designed to resist extreme conditions (of humidity, temperature or physical disturbances).

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network

VULNERABILITIES LINKED TO ATTACK METHOD 06 - CLIMATIC PHENOMENON

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network
PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution
PHY_SRV.2: Power
PHY_SRV.1: Communication
PHY_LIE: Places
PHY_LIE.3: Zone
PHY_LIE.2: Premises
PHY_LIE.1: External environment
PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel
ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers
ORG_DEP: Higher-tier organisation
ORG: Organisation
MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium
MAT_ACT: Data processing equipment (active)
MAT_ACT.3: Processing peripheral
MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment
MAT: Hardware
LOG_STD: Package software or standard software
LOG_SRV: Service, maintenance or administration software
LOG_OS: Operating system

LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.7 SEISMIC PHENOMENON

Equipment sensitive to vibrations

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No emergency service close to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering a crisis declared at a subcontractor's or supplier's site

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions (warning, prevention, reaction, etc.)

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No test of reaction and information procedures in the event of an accident

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker

Seismic conditions not taken into account in the construction of the buildings

Types of entity PHY_LIE.2: Premises

Medium or equipment not designed to resist extreme conditions (of humidity, temperature or physical disturbances).

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network

VULNERABILITIES LINKED TO ATTACK METHOD 07 - SEISMIC PHENOMENON

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory

SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.8 VOLCANIC PHENOMENON

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No emergency service close to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering a crisis declared at a subcontractor's or supplier's site

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions (warning, prevention, reaction, etc.)

Types of entity ORG_PRO: Project or system organisation

ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No test of reaction and information procedures in the event of an accident

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker

Site listed as volcano-prone

Types of entity PHY_LIE.1: External environment

Seismic conditions not taken into account in the construction of the buildings

Types of entity PHY_LIE.2: Premises

Medium or equipment not designed to resist extreme conditions (of humidity, temperature or physical disturbances).

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network

VULNERABILITIES LINKED TO ATTACK METHOD 08 - VOLCANIC PHENOMENON

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation

ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.9 METEOROLOGICAL PHENOMENON

Conditions of use outside operating limits of the equipment

Types of entity

MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware

No emergency service close to the organisation

Types of entity

ORG_DEP: Higher-tier organisation

No installation standard for sites belonging to the organisation

Types of entity

ORG_DEP: Higher-tier organisation

No contractual clauses covering a crisis declared at a subcontractor's or supplier's site

Types of entity

ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions (warning, prevention, reaction, etc.)

Types of entity

ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity

PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No test of reaction and information procedures in the event of an accident

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker
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Site in which extreme weather phenomena occur periodically (storm, hurricane, cyclone, etc.)

Types of entity	PHY_LIE.1: External environment
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No protection against lightning

Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
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Medium or equipment not designed to resist extreme conditions (of humidity, temperature or physical disturbances).

Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network
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VULNERABILITIES LINKED TO ATTACK METHOD 09 - METEOROLOGICAL PHENOMENON

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE: Places PHY_LIE.3: Zone PHY_LIE.2: Premises PHY_LIE.1: External environment PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers ORG_DEP: Higher-tier organisation ORG: Organisation MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
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MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.10 FLOOD

No emergency service close to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering a crisis declared at a subcontractor's or supplier's site

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions (warning, prevention, reaction, etc.)

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Site located in flood-prone area

Types of entity PHY_LIE.1: External environment

No protection against rising water levels

Types of entity PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises

Medium or equipment not designed to resist extreme conditions (of humidity, temperature or physical disturbances).

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network

VULNERABILITIES LINKED TO ATTACK METHOD 10 - FLOOD

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.11 FAILURE OF AIR-CONDITIONING

Equipment requiring air-conditioning in order to operate

Types of entity MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment

Archives requiring air-conditioning for their preservation

Types of entity MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering compensation for damage in the event of loss of an essential service

Types of entity **ORG_EXT: Subcontractors / Suppliers / Manufacturers**

No contractual clauses covering the maximum acceptable downtime of an essential service

Types of entity **ORG_EXT: Subcontractors / Suppliers / Manufacturers**

No instructions (warning, prevention, reaction, etc.)

Types of entity **ORG_PRO: Project or system organisation**
ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

No revision of air-conditioning needs when premises are modified or equipment is added.

Types of entity **PHY_LIE.3: Zone**

System depending on a chilled water or power supplier

Types of entity **PHY_SRV.3: Cooling / pollution**

System not adequately sized to meet the needs

Types of entity **PHY_SRV.3: Cooling / pollution**

No maintenance of air-conditioning equipment

Types of entity **PHY_SRV.3: Cooling / pollution**

No correctly sized redundant equipment

Types of entity **PHY_SRV.3: Cooling / pollution**

Unprotected access to water and power supply equipment

Types of entity **PHY_SRV.3: Cooling / pollution**

VULNERABILITIES LINKED TO ATTACK METHOD 11 - FAILURE OF AIR-CONDITIONING

Types of entity **SYS_WEB: External portal**
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network
PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution
PHY_SRV.2: Power
PHY_SRV.1: Communication
PHY_LIE: Places
PHY_LIE.3: Zone
PHY_LIE.2: Premises

PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.12 LOSS OF POWER SUPPLY

Equipment sensitive to electrical disturbances (voltage drops, overvoltages, transient power-cuts)

Types of entity RES_REL: Passive or active relay
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering compensation for damage in the event of loss of an essential service

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No contractual clauses covering the maximum acceptable downtime of an essential service

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions (warning, prevention, reaction, etc.)

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users

PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Lack of information concerning conditions of use of emergency power supply points

Types of entity PER_UTI: Users

Terminal communication equipment with no emergency power supply

Types of entity PHY_SRV.1: Communication

Rooms containing acid-based batteries are not specifically designed and physically isolated from the equipment to which they are connected

Types of entity PHY_SRV.2: Power

Incorrect sizing of emergency power supply equipment (inverter, batteries, etc.)

Types of entity PHY_SRV.2: Power

Unprotected physical access to rooms housing electrical power supply and distribution equipment

Types of entity PHY_SRV.2: Power

Rooms containing acid-based batteries are not fitted with mechanical ventilation and explosion-proof electrical equipment.

Types of entity PHY_SRV.2: Power

The floor or wall coverings are not anti-static

Types of entity PHY_SRV.2: Power

The low voltage panel is not accessible

Types of entity PHY_SRV.2: Power

The medium / low voltage transformer substation is not installed on the site (with controlled supplier access)

Types of entity PHY_SRV.2: Power

No analysis of emergency power level required if equipment is added

Types of entity PHY_SRV.2: Power

Earthing of exposed conductive parts does not comply with regulations

Types of entity PHY_SRV.2: Power

VULNERABILITIES LINKED TO ATTACK METHOD 12 - LOSS OF POWER SUPPLY

Types of entity
 SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution

PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.13 FAILURE OF TELECOMMUNICATION EQUIPMENT

Equipment maintained remotely via telecommunication equipment

Types of entity RES_REL: Passive or active relay
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No installation standard for sites belonging to the organisation

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering compensation for damage in the event of loss of an essential service

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No contractual clauses covering the maximum acceptable downtime of an essential service

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions (warning, prevention, reaction, etc.)

Types of entity ORG_PRO: Project or system organisation

ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No maintenance of termination and distribution equipment

Types of entity PHY_SRV.1: Communication

Operating faults on the internal telephone network

Types of entity PHY_SRV.1: Communication

Operating problem already encountered on the telecommunication service supply

Types of entity PHY_SRV.1: Communication

Unprotected physical access to rooms housing electrical power supply and distribution equipment or telecommunication equipment

Types of entity PHY_SRV.2: Power
 PHY_SRV.1: Communication

VULNERABILITIES LINKED TO ATTACK METHOD 13 - FAILURE OF TELECOMMUNICATION EQUIPMENT

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)

MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.14 ELECTROMAGNETIC RADIATION

Equipment or medium sensitive to electromagnetic or thermal radiation

Types of entity MAT_ACT.2: Fixed equipment

No contractual clause relating to electromagnetic compatibility

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

Risk of electromagnetic or thermal radiation not taken into account in the design

Types of entity
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment

Proximity of a source of electromagnetic or thermal radiation

Types of entity
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment

Risks arising from the proximity of an electromagnetic source not taken into account

Types of entity
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication

Medium and supports sensitive to electromagnetic or thermal radiation

Types of entity
 RES_REL: Passive or active relay
 RES_INF: Medium and supports

VULNERABILITIES LINKED TO ATTACK METHOD 14 - ELECTROMAGNETIC RADIATION

Types of entity
 SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay

RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.15 THERMAL RADIATION

Equipment or medium sensitive to electromagnetic or thermal radiation

Types of entity MAT_ACT.2: Fixed equipment

Proximity of a source of electromagnetic or thermal radiation

Types of entity PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment

Risk of electromagnetic or thermal radiation not taken into account in the design

Types of entity PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises

PHY_LIE.1: External environment

Risks arising from the proximity of an electromagnetic source not taken into account

Types of entity

- PHY_SRV: Essential service
- PHY_SRV.3: Cooling / pollution
- PHY_SRV.2: Power
- PHY_SRV.1: Communication

Medium and supports sensitive to electromagnetic or thermal radiation

Types of entity

- RES_REL: Passive or active relay
- RES_INF: Medium and supports

VULNERABILITIES LINKED TO ATTACK METHOD 15 - THERMAL RADIATION

Types of entity

- SYS_WEB: External portal
- SYS_MES: Electronic messaging
- SYS_ITR: Intranet
- SYS_INT: Internet access device
- SYS_ANU: Company directory
- SYS: System
- RES_REL: Passive or active relay
- RES_INT: Communication interface
- RES_INF: Medium and supports
- RES: Network
- PHY_SRV: Essential service
- PHY_SRV.3: Cooling / pollution
- PHY_SRV.2: Power
- PHY_SRV.1: Communication
- PHY_LIE: Places
- PHY_LIE.3: Zone
- PHY_LIE.2: Premises
- PHY_LIE.1: External environment
- PER_UTI: Users
- PER_EXP: Operator / Maintenance
- PER_DEV: Developer
- PER_DEC: Decision maker
- PER: Personnel
- ORG_PRO: Project or system organisation
- ORG_GEN: Structure of the organisation
- ORG_EXT: Subcontractors / Suppliers / Manufacturers
- ORG_DEP: Higher-tier organisation
- ORG: Organisation
- MAT_PAS: Data medium (passive)
- MAT_PAS.2: Other media
- MAT_PAS.1: Electronic medium
- MAT_ACT: Data processing equipment (active)
- MAT_ACT.3: Processing peripheral
- MAT_ACT.2: Fixed equipment
- MAT_ACT.1: Transportable equipment
- MAT: Hardware
- LOG_STD: Package software or standard software
- LOG_SRV: Service, maintenance or administration software
- LOG_OS: Operating system
- LOG_APP: Business application

LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.16 ELECTROMAGNETIC PULSES

Equipment or medium sensitive to electromagnetic or thermal radiation

Types of entity MAT_ACT.2: Fixed equipment

Proximity of a source of electromagnetic or thermal radiation

Types of entity PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment

Risk of electromagnetic or thermal radiation not taken into account in the design

Types of entity PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment

Risks arising from the proximity of an electromagnetic source not taken into account

Types of entity PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication

Medium and supports sensitive to electromagnetic or thermal radiation

Types of entity RES_REL: Passive or active relay
 RES_INF: Medium and supports

VULNERABILITIES LINKED TO ATTACK METHOD 16 - ELECTROMAGNETIC PULSES

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance

PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.17 INTERCEPTION OF COMPROMISING INTERFERENCE SIGNALS

Installation rules not taken into account

Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV.2: Power PHY_SRV.1: Communication MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware
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Equipment zoning not taken into account

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware
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Equipment capable of emitting compromising stray radiation

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware

Managers have no contact with the expertise or technology watch departments

Types of entity ORG_DEP: Higher-tier organisation

No rules imposing the use of standards

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering the security measures to be observed by subcontractors and suppliers

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No equipment verification procedure before purchase or after maintenance work.

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No monitoring of security policy application

Types of entity ORG_GEN: Structure of the organisation

No information protection policy

Types of entity ORG_GEN: Structure of the organisation

The security policy is not applied

Types of entity ORG_GEN: Structure of the organisation

TEMPEST zoning not carried out

Types of entity PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment

Public access close to the buildings

Types of entity PHY_LIE.2: Premises

Room situated close to a public right-of-way

Types of entity PHY_LIE.3: Zone

Ancillary equipment making it easier to pick up compromising stray signals (electrical cables, pipes, etc.)

Types of entity PHY_SRV.2: Power
 PHY_SRV.1: Communication

No protection of access to equipment

Types of entity PHY_SRV.2: Power
 PHY_SRV.1: Communication

Medium and supports capable of emitting compromising stray radiation

Types of entity RES_REL: Passive or active relay

RES_INF: Medium and supports

VULNERABILITIES LINKED TO ATTACK METHOD 17 - INTERCEPTION OF COMPROMISING STRAY SIGNALS

Types of entity	<p>SYS_WEB: External portal</p> <p>SYS_MES: Electronic messaging</p> <p>SYS_ITR: Intranet</p> <p>SYS_INT: Internet access device</p> <p>SYS_ANU: Company directory</p> <p>SYS: System</p> <p>RES_REL: Passive or active relay</p> <p>RES_INT: Communication interface</p> <p>RES_INF: Medium and supports</p> <p>RES: Network</p> <p>PHY_SRV: Essential service</p> <p>PHY_SRV.3: Cooling / pollution</p> <p>PHY_SRV.2: Power</p> <p>PHY_SRV.1: Communication</p> <p>PHY_LIE: Places</p> <p>PHY_LIE.3: Zone</p> <p>PHY_LIE.2: Premises</p> <p>PHY_LIE.1: External environment</p> <p>PER_UTI: Users</p> <p>PER_EXP: Operator / Maintenance</p> <p>PER_DEV: Developer</p> <p>PER_DEC: Decision maker</p> <p>PER: Personnel</p> <p>ORG_PRO: Project or system organisation</p> <p>ORG_GEN: Structure of the organisation</p> <p>ORG_EXT: Subcontractors / Suppliers / Manufacturers</p> <p>ORG_DEP: Higher-tier organisation</p> <p>ORG: Organisation</p> <p>MAT_PAS: Data medium (passive)</p> <p>MAT_PAS.2: Other media</p> <p>MAT_PAS.1: Electronic medium</p> <p>MAT_ACT: Data processing equipment (active)</p> <p>MAT_ACT.3: Processing peripheral</p> <p>MAT_ACT.2: Fixed equipment</p> <p>MAT_ACT.1: Transportable equipment</p> <p>MAT: Hardware</p> <p>LOG_STD: Package software or standard software</p> <p>LOG_SRV: Service, maintenance or administration software</p> <p>LOG_OS: Operating system</p> <p>LOG_APP: Business application</p> <p>LOG_APP.2: Specific business application</p> <p>LOG_APP.1: Standard business application</p> <p>LOG: Software</p>
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4.18 REMOTE SPYING

No screen saver when equipment is inactive

Types of entity	LOG_STD: Package software or standard software
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LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Use of easily-observed passwords to access the system or application (shape on keyboard, short password)

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Password for accessing the system or application changed rarely or not at all

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Screen observable from outside

Types of entity MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Sensitive documents read in public places (documents observed by external persons, etc.)

Types of entity MAT_PAS.2: Other media

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

No rules for protecting the exchange of confidential information

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering the security measures to be observed by subcontractors and suppliers

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

The security policy is not applied

Types of entity ORG_GEN: Structure of the organisation

No identification of sensitive assets

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

The security responsibilities concerning authorisation management are not formalised.

Types of entity ORG_GEN: Structure of the organisation

No monitoring of application of the security policy

Types of entity ORG_GEN: Structure of the organisation

No information protection policy

Types of entity ORG_PRO: Project or system organisation

No identification of security needs for a project

Types of entity ORG_PRO: Project or system organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Low awareness of the need to protect information

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No management support for application of the security policy

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Presence of observation point outside the site

Types of entity PHY_LIE.1: External environment

Zone with opening onto a public right-of-way

Types of entity PHY_LIE.3: Zone

Zone observable from a passage way

Types of entity PHY_LIE.3: Zone

VULNERABILITIES LINKED TO ATTACK METHOD 18 - REMOTE SPYING

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places

PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.19 EAVESDROPPING

No access monitoring device when equipment is inactive

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Possibility of adding an eavesdropping programme such as a Trojan horse

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No protection of logs containing activity tracks

Types of entity	SYS_WEB: External portal SYS_ITR: Intranet
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	SYS_INT: Internet access device LOG_STD: Package software or standard software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
	Password for accessing the system or application changed rarely or not at all
Types of entity	LOG_STD: Package software or standard software LOG_OS: Operating system LOG_APP.2: Specific business application LOG_APP.1: Standard business application
	No protection against the use of advanced privileges
Types of entity	LOG_OS: Operating system
	Password for accessing support software changed rarely or not at all
Types of entity	LOG_SRV: Service, maintenance or administration software
	Logical access to equipment allowing eavesdropping software to be installed
Types of entity	MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
	Equipment with a communication interface that can be eavesdropped (infrared, 802.11, Bluetooth, etc.)
Types of entity	MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
	No security policy for protecting the information processing infrastructure in the organisation's sites
Types of entity	ORG_DEP: Higher-tier organisation
	No rules for protecting the exchange of confidential information
Types of entity	ORG_DEP: Higher-tier organisation
	No contractual clauses covering the security measures to be observed by subcontractors and suppliers
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
	No monitoring of application of the security policy
Types of entity	ORG_GEN: Structure of the organisation
	No identification of sensitive assets
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
	The security responsibilities concerning authorisation management are not formalised.
Types of entity	ORG_GEN: Structure of the organisation
	The security policy is not applied
Types of entity	ORG_GEN: Structure of the organisation
	No information protection policy
Types of entity	ORG_PRO: Project or system organisation

No identification of security needs for a project

Types of entity **ORG_PRO: Project or system organisation**

Insufficient training in measures and tools for protecting external and internal exchanges

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Personnel susceptible to enticement

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

No management support for application of the security policy

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Low awareness of the need to protect the confidentiality of information exchanges

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Obtaining an advantage through picking up information

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Possibility of picking up transmissions outside the site

Types of entity **PHY_LIE.1: External environment**

No control of access to the site or premises or possibility of intrusion via indirect access routes.

Types of entity **PHY_LIE.3: Zone**
PHY_LIE.2: Premises

Access to communication terminal equipment not protected

Types of entity **PHY_SRV.1: Communication**

Medium and supports whose characteristics allow eavesdropping (e.g. Ethernet, wireless communication systems)

Types of entity **RES_INF: Medium and supports**

Physical or logical access to a relay allowing eavesdropping equipment to be

installed

Types of entity RES_INF: Medium and supports

No authentication of equipment connected to the network

Types of entity RES_INT: Communication interface

Physical access to communication support or equipment allowing eavesdropping equipment to be installed

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

Communication in broadcast mode

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

Complex routing between sub-networks

Types of entity RES_INT: Communication interface

Interface with a function that allows eavesdropping

Types of entity RES_INT: Communication interface

Circulating information in clear text

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

No partitioning of communication networks

Types of entity SYS_ITR: Intranet

Possibility of eavesdropping on exchanges with authentication servers

Types of entity SYS_ITR: Intranet

Possibility of eavesdropping on exchanges with application servers

Types of entity SYS_ITR: Intranet

Possibility of introducing eavesdropping software on client terminals

Types of entity SYS_MES: Electronic messaging

Possibility of installing an eavesdropping device on messaging gateways

Types of entity SYS_MES: Electronic messaging

Flaws in the management of access privileges to messaging gateways

Types of entity SYS_MES: Electronic messaging

VULNERABILITIES LINKED TO ATTACK METHOD 19 - EAVESDROPPING

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface

RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.20 THEFT OF MEDIA OR DOCUMENTS

Single internally-developed applications

Types of entity LOG_APP.2: Specific business application

No equipment inventory

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Tempting equipment (trading value, technology, strategic)

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No protection of equipment against theft (anti-theft cable)

Types of entity MAT_ACT.1: Transportable equipment

Easily removed hard disc

Types of entity MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment

Equipment used on self-service basis by a number of persons

Types of entity MAT_ACT.1: Transportable equipment

Access to back-up equipment not protected

Types of entity MAT_ACT.3: Processing peripheral

Printer present in passage way

Types of entity MAT_ACT.3: Processing peripheral

Media available to everyone

Types of entity MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium

Media sent via postal services (external service providers, internal mail service, etc.)

Types of entity MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium

Media storage not protected

Types of entity MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium

No inventory of media used

Types of entity MAT_PAS.1: Electronic medium

No back-up of data contained on the media

Types of entity MAT_PAS.1: Electronic medium

Easily transported media (e.g. removable hard disc, back-up cartridge)

Types of entity MAT_PAS.1: Electronic medium

Original media

Types of entity MAT_PAS.2: Other media

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering the security measures to be observed by subcontractors and suppliers

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

Security responsibilities concerning the classification of information are not formalised or known by everyone

Types of entity ORG_GEN: Structure of the organisation

The security policy is not applied

Types of entity ORG_GEN: Structure of the organisation

No organisation for management of security incidents

Types of entity ORG_GEN: Structure of the organisation

No identification of sensitive assets

Types of entity ORG_GEN: Structure of the organisation

No monitoring of sensitive assets

Types of entity ORG_GEN: Structure of the organisation

No monitoring of application of the security policy

Types of entity ORG_GEN: Structure of the organisation

No identification of security needs for a project

Types of entity ORG_PRO: Project or system organisation

No information protection policy

Types of entity ORG_PRO: Project or system organisation

Personnel susceptible to enticement

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Failure to follow rules concerning information classification.

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Low awareness of the need to protect confidential documents, leading to a lack of vigilance

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Obtaining an advantage through disclosing information

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

No management support for application of the security policy

Types of entity PER_DEC: Decision maker

No individual commitment to protect confidential documents

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer

Media or documents sent or present outside the site

Types of entity PHY_LIE.1: External environment

No control of access to the site or premises or possibility of intrusion via indirect

access routes.

Types of entity PHY_LIE.3: Zone
 PHY_LIE.2: Premises

VULNERABILITIES LINKED TO ATTACK METHOD 20 - THEFT OF MEDIA OR DOCUMENTS

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.21 THEFT OF EQUIPMENT

No substitution equipment

Types of entity MAT_ACT: Data processing equipment (active)
MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment

No equipment inventory

Types of entity MAT_ACT.3: Processing peripheral
MAT_ACT.1: Transportable equipment

Equipment freely available to a number of persons

Types of entity MAT_ACT.1: Transportable equipment

Tempting equipment (trading value, technology, strategic)

Types of entity MAT_ACT.3: Processing peripheral
MAT_ACT.1: Transportable equipment

Equipment that can be resold (no marking, used without password)

Types of entity MAT_ACT.1: Transportable equipment

Easily dismantled equipment

Types of entity MAT_ACT.2: Fixed equipment

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering the security measures to be observed by subcontractors and suppliers

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No organisation for management and treatment of security incidents linked to theft

Types of entity ORG_GEN: Structure of the organisation

No monitoring of application of the security policy

Types of entity ORG_GEN: Structure of the organisation

No rules for checking equipment entering/leaving the organisation

Types of entity ORG_GEN: Structure of the organisation

No identification of sensitive assets

Types of entity ORG_GEN: Structure of the organisation

No identification of security needs for a project

Types of entity ORG_PRO: Project or system organisation

No management support for application of the security policy

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Low awareness of the need to protect equipment outside the organisation

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance

PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Personnel susceptible to enticement

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Failure to follow the rules concerning physical protection of transportable equipment

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Obtaining an advantage through selling equipment

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Use of equipment outside the organisation (personnel's homes, another organisation, etc.)

Types of entity PHY_LIE.1: External environment

No control of access to the site or premises or possibility of intrusion via indirect access routes.

Types of entity PHY_LIE.3: Zone
 PHY_LIE.2: Premises

VULNERABILITIES LINKED TO ATTACK METHOD 21 - THEFT OF EQUIPMENT

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users

PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.22 RETRIEVAL OF RECYCLED OR DISCARDED MEDIA

Presence of residual data used by the software

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Presence of residual data unknown to the user of reallocated or discarded equipment

Types of entity	MAT_PAS.1: Electronic medium MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
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No means of destroying the media

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
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No identification of sensitive assets

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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No monitoring of sensitive assets

Types of entity	ORG_PRO: Project or system organisation
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	ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
No monitoring of application of the security policy	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
No information protection policy applicable to recycling and discarding	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
No contractual clauses covering the security measures to be observed by subcontractors and suppliers	
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
Personnel susceptible to enticement	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
Failure to comply with rules concerning the destruction of media containing classified information	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
No information or awareness concerning residual data on media	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
Obtaining an advantage through disclosing information	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
No management support for application of the security policy	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
Presence of discarded media outside the site	
Types of entity	PHY_LIE.1: External environment

Presence of discarded media in public places

Types of entity PHY_LIE.2: Premises

Presence of discarded media in zones accessible to persons who have no need to know

Types of entity PHY_LIE.3: Zone

VULNERABILITIES LINKED TO ATTACK METHOD 22 - RETRIEVAL OF RECYCLED OR DISCARDED MEDIA

Types of entity

- SYS_WEB: External portal
- SYS_MES: Electronic messaging
- SYS_ITR: Intranet
- SYS_INT: Internet access device
- SYS_ANU: Company directory
- SYS: System
- RES_REL: Passive or active relay
- RES_INT: Communication interface
- RES_INF: Medium and supports
- RES: Network
- PHY_SRV: Essential service
- PHY_SRV.3: Cooling / pollution
- PHY_SRV.2: Power
- PHY_SRV.1: Communication
- PHY_LIE: Places
- PHY_LIE.3: Zone
- PHY_LIE.2: Premises
- PHY_LIE.1: External environment
- PER_UTI: Users
- PER_EXP: Operator / Maintenance
- PER_DEV: Developer
- PER_DEC: Decision maker
- PER: Personnel
- ORG_PRO: Project or system organisation
- ORG_GEN: Structure of the organisation
- ORG_EXT: Subcontractors / Suppliers / Manufacturers
- ORG_DEP: Higher-tier organisation
- ORG: Organisation
- MAT_PAS: Data medium (passive)
- MAT_PAS.2: Other media
- MAT_PAS.1: Electronic medium
- MAT_ACT: Data processing equipment (active)
- MAT_ACT.3: Processing peripheral
- MAT_ACT.2: Fixed equipment
- MAT_ACT.1: Transportable equipment
- MAT: Hardware
- LOG_STD: Package software or standard software
- LOG_SRV: Service, maintenance or administration software
- LOG_OS: Operating system
- LOG_APP: Business application
- LOG_APP.2: Specific business application
- LOG_APP.1: Standard business application
- LOG: Software

4.23 DISCLOSURE

No verification of approved shared access

Types of entity	MAT_ACT.2: Fixed equipment LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Procedures for managing access privileges too heavy to operate

Types of entity	MAT_ACT.2: Fixed equipment LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Access right management functions too complicated to use and capable of producing an error

Types of entity	MAT_ACT.2: Fixed equipment
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Presence of shared directory for storing information

Types of entity	MAT_ACT.2: Fixed equipment
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Media can be used to exchange sensitive information

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
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No structure responsible for defining, implementing and monitoring access privileges to information

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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No identification of sensitive assets

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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The security policy is not applied

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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No personal commitment to protect confidentiality

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
-----------------	--

Procedures for managing and applying authorisation too heavy to use

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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Security responsibilities concerning the classification of information are not formalised or known by everyone

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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No monitoring of sensitive assets

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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No information protection policy

Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
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Failure to observe information classification rules

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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No management support for application of the security policy

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Personnel susceptible to enticement

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Inadequate awareness of the need to protect sensitive information

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Failure to observe discretion

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker
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PER: Personnel

Obtaining an advantage through disclosing information

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No checking (or tracking) of exchanges with the outside

Types of entity PHY_SRV.1: Communication
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises

Presence of a communication network with the outside allowing exchange of information

Types of entity RES_INF: Medium and supports

Complex or unpractical files

Types of entity RES_INT: Communication interface

Standard interface allowing information exchanges (e.g. Bluetooth interface accepting all communications by default)

Types of entity RES_INT: Communication interface

Resources can be used without tracking

Types of entity RES_INT: Communication interface

No user notification

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

Complex routing between sub-networks

Types of entity RES_INT: Communication interface

No strict routing between sub-networks

Types of entity RES_INT: Communication interface

No filtering and logging on communication relays between networks

Types of entity RES_REL: Passive or active relay

The system is connected to external networks

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

No control of access to information stored in the directory

Types of entity SYS_ANU: Company directory

No access logging

Types of entity SYS_INT: Internet access device

No filtering system

Types of entity SYS_INT: Internet access device

Access privileges to shared information difficult to manage or not managed at all (definition, implementation, monitoring)

Types of entity SYS_ITR: Intranet

No partitioning of communication networks

Types of entity SYS_ITR: Intranet

No measure to avoid negligence when information is sent

Types of entity SYS_MES: Electronic messaging

The system can be used by all personnel

Types of entity SYS_MES: Electronic messaging

The system allows attachments to be exchanged

Types of entity SYS_MES: Electronic messaging

No effective and operational virus shield

Types of entity SYS_MES: Electronic messaging

No management of information access privileges (possibility of corrupting public data, etc.)

Types of entity SYS_WEB: External portal

The system makes it easy to disclose information to the outside

Types of entity SYS_WEB: External portal

VULNERABILITIES LINKED TO ATTACK METHOD 23 - DISCLOSURE

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation

ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.24 DATA FROM UNTRUSTWORTHY SOURCES

Software retrieval from a non-authenticated source

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Possibility of installing correction programmes, updates, patches, hotfixes, etc.

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No sure means of identification

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

No storage of activity tracks

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

No means of guaranteeing the source of equipment

Types of entity

MAT_ACT: Data processing equipment (active)

	MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
Managers have no contact with the expertise or technology watch departments	
Types of entity	ORG_DEP: Higher-tier organisation
No security policy for protecting the information processing infrastructure in the organisation's sites	
Types of entity	ORG_DEP: Higher-tier organisation
No means of guaranteeing the source of supplies	
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
No monitoring of application of the security policy	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No policy for storing and analysing activity tracks	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No information concerning the division of responsibility and means of guaranteeing the legitimacy of a request.	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No structure allowing identification of a person to be guaranteed within the organisation or a project	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No management support for application of the security policy	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
No awareness programme concerning the risks of usurping of identity (misuse of means of authentication such as passwords)	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEC: Decision maker
Credulity	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEC: Decision maker
Failure to appreciate the importance of qualifying information	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEC: Decision maker
Personnel susceptible to enticement	
Types of entity	PER_UTI: Users

	PER_EXP: Operator / Maintenance PER_DEC: Decision maker
Conflictual industrial relations	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEC: Decision maker
Obtaining an advantage through misinforming	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEC: Decision maker
No means of guaranteeing the authenticity of codes	
Types of entity	PER_DEV: Developer
Unfamiliarity with security measures	
Types of entity	PER_DEV: Developer
Possibility of corrupting a communication	
Types of entity	RES_INF: Medium and supports
Protocol not allowing safe authentication of the sender of a communication	
Types of entity	RES_INT: Communication interface
Resources can be used without tracking	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
Assignment files too complex or unpractical	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
The relays identify neither the sources nor the destinations (example of impact: system vulnerable to spoofing attacks)	
Types of entity	RES_REL: Passive or active relay
Possibility of usurping the directory function	
Types of entity	SYS_ANU: Company directory
The system does not allow the author of a modification to be identified	
Types of entity	SYS_ANU: Company directory
The system allows access to data that cannot be authenticated (e.g. hoax)	
Types of entity	SYS_INT: Internet access device
The system does not have any means of preserving the activity history	
Types of entity	SYS_WEB: External portal SYS_ITR: Intranet SYS_INT: Internet access device
The system allows information to be stored or modified without authentication of the authors	
Types of entity	SYS_ITR: Intranet
The system allows information to be sent and received without authentication of the senders or recipients	

Types of entity SYS_MES: Electronic messaging

The system has no filter to prevent hoaxes being received from the outside

Types of entity SYS_MES: Electronic messaging

The system allows relaying

Types of entity SYS_MES: Electronic messaging

The system does not allow the person issuing a request to be identified

Types of entity SYS_WEB: External portal

VULNERABILITIES LINKED TO ATTACK METHOD 24 - INFORMATION FROM UNTRUSTWORTHY SOURCES

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application

LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.25 TAMPERING WITH HARDWARE

Additional hardware items can be fitted for storing, transmitting or corrupting information (e.g. physical keylogger).

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No procedure for checking work carried out by external personnel on the organisation's equipment

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No monitoring of application of the security policy

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_GEN: Structure of the organisation

Managers have no contact with the expertise or technology watch departments

Types of entity ORG_GEN: Structure of the organisation

No operational qualification procedures

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No monitoring of sensitive assets

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No identification of sensitive assets

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No procedures for validating hardware components when they are delivered or returned from maintenance

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Software not adequately tested before acceptance, especially concerning limit values

Types of entity ORG_PRO: Project or system organisation

Personnel susceptible to enticement

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer

PER_DEC: Decision maker
PER: Personnel

No vigilance when a maintenance agent works on a workstation or server

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Low awareness of the need to protect equipment outside the organisation

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Obtaining an advantage through misinforming

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

Use of equipment outside the organisation (personnel's homes, another organisation, etc.)

Types of entity PHY_LIE.1: External environment

No control of access to the site or premises or possibility of intrusion via indirect access routes.

Types of entity PHY_SRV.1: Communication
PHY_LIE.3: Zone
PHY_LIE.2: Premises

Possibility of circuit derivation

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network

VULNERABILITIES LINKED TO ATTACK METHOD 25 - TAMPERING WITH HARDWARE

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network
PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution

PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.26 TAMPERING WITH SOFTWARE

The remote maintenance link is permanently activated

Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Possible existence of hidden functions introduced during the design and development phase

Types of entity	SYS_WEB: External portal SYS_ANU: Company directory LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software
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	LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
Possibility of modifying or corrupting the software	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
No protection against the use of advanced privileges	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
Use of non-evaluated software	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
No implementation of basic security rules applicable to the operating system and software	
Types of entity	SYS_MES: Electronic messaging LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
Possibility of creating or modifying system commands	
Types of entity	SYS_WEB: External portal LOG_OS: Operating system
Software retrieval from a non-authenticated source	
Types of entity	LOG_OS: Operating system
Possibility of remote administration of the system using non-encrypted administration tools	
Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_OS: Operating system
Connection passwords not sufficiently complex	
Types of entity	SYS_MES: Electronic messaging LOG_OS: Operating system

Possibility of installing correction programmes, updates, patches, hotfixes, etc.

Types of entity LOG_OS: Operating system

Possibility of remote system administration

Types of entity SYS_MES: Electronic messaging
RES_REL: Passive or active relay
RES_INT: Communication interface
LOG_OS: Operating system

Use of a standard operating system on which logical attacks have already been carried out

Types of entity LOG_OS: Operating system

Possibility of remote system administration from any station

Types of entity SYS_MES: Electronic messaging
RES_REL: Passive or active relay
RES_INT: Communication interface
LOG_OS: Operating system

Possibility of deleting, modifying or installing new programmes

Types of entity LOG_OS: Operating system

The SNMP layer is activated

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface
LOG_OS: Operating system

The equipment can be booted from any peripheral (e.g. floppy disc, CD-ROM)

Types of entity MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment

No means of checking the safety of media when they enter the organisation

Types of entity MAT_PAS.1: Electronic medium

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

Managers have no contact with the expertise or technology watch departments

Types of entity ORG_DEP: Higher-tier organisation

No procedure for checking work carried out by external personnel on the organisation's equipment

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No contractual clauses guaranteeing the safety of supplies delivered by a subcontractor or supplier

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No global policy for fighting against malicious code

Types of entity ORG_GEN: Structure of the organisation

No identification of sensitive assets

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No monitoring of application of the security policy

Types of entity **ORG_GEN: Structure of the organisation**

No monitoring of sensitive assets

Types of entity **ORG_GEN: Structure of the organisation**

No policy for protecting the workstations

Types of entity **ORG_GEN: Structure of the organisation**

No policy for storing and analysing activity tracks

Types of entity **ORG_PRO: Project or system organisation**
ORG_GEN: Structure of the organisation

No measures for checking developments

Types of entity **ORG_PRO: Project or system organisation**

No measures for protecting code integrity during the design, installation and operation phases

Types of entity **ORG_PRO: Project or system organisation**

Use of software without a guarantee of its source

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEC: Decision maker

Conflictual industrial relations

Types of entity **PER_UTI: Users**
PER_DEC: Decision maker

Low awareness of the threat posed by malicious codes

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEC: Decision maker

Correct reflex actions not known if an anomaly is detected

Types of entity **PER_UTI: Users**
PER_DEC: Decision maker

Failure to comply with anti-virus software updating rules

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEC: Decision maker

Personnel susceptible to enticement

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker

Obtaining an advantage through disrupting the information system

Types of entity **PER_UTI: Users**
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker

Conflictual situation

Types of entity **PER_EXP: Operator / Maintenance**

	PER_DEV: Developer
Unfamiliarity with security measures	
Types of entity	PER_DEV: Developer
No means of guaranteeing the authenticity of developments	
Types of entity	PER_DEV: Developer
Operator or maintainer with extended privileges	
Types of entity	PER_EXP: Operator / Maintenance
Unfamiliarity with emergency procedures if an anomaly is detected	
Types of entity	PER_EXP: Operator / Maintenance
Use of equipment outside the organisation (personnel's homes, another organisation, etc.)	
Types of entity	PHY_LIE.1: External environment
No control of access to the site or premises or possibility of intrusion via indirect access routes.	
Types of entity	PHY_SRV.1: Communication PHY_LIE.3: Zone PHY_LIE.2: Premises
The network makes it easy for unauthorised persons to use the resources	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
Assignment files too complex or unpractical	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
Possibility of adding software derivations	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
The network allows the system resources to be modified or adjusted	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
Additional software can be added for storing, transmitting or corrupting information (e.g. keylogger)	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
Resources can be used without tracking	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
Applications can be modified or changed	
Types of entity	SYS_WEB: External portal SYS_ANU: Company directory
Programmes or system files can be deleted or modified	
Types of entity	SYS_WEB: External portal SYS_ANU: Company directory
No awareness programme concerning risks incurred through downloading software	

Types of entity **SYS_INT: Internet access device**

No anti-virus check on exchanges

Types of entity **SYS_INT: Internet access device**

The system allows asynchronous operation of certain parts or commands of the operating system (e.g. JavaScript components exploring the hard disc content)

Types of entity **SYS_INT: Internet access device**

Presence of a device allowing remote modification or installation of applications

Types of entity **SYS_ITR: Intranet**

Use of shared storage space

Types of entity **SYS_ITR: Intranet**

Use of an obsolete version of the messaging server

Types of entity **SYS_MES: Electronic messaging**

Use of a distribution list that includes a large part of the personnel

Types of entity **SYS_MES: Electronic messaging**

Presence of protocol that has no authentication function

Types of entity **SYS_MES: Electronic messaging**

The messaging system allows automatic message transmission

Types of entity **SYS_MES: Electronic messaging**

No awareness programme concerning the risks incurred by opening attachments

Types of entity **SYS_MES: Electronic messaging**

The system allows asynchronous operation of certain parts or commands of the operating system to be exploited (e.g. automatic opening of attachments)

Types of entity **SYS_MES: Electronic messaging**

Applications are not checked before installation

Types of entity **SYS_MES: Electronic messaging**

The messaging system allows software updates to be installed (e.g. patches, anti-virus updates, etc.)

Types of entity **SYS_MES: Electronic messaging**

No anti-virus filtering system

Types of entity **SYS_MES: Electronic messaging**

Pirated programmes can be installed

Types of entity **SYS_WEB: External portal**

VULNERABILITIES LINKED TO ATTACK METHOD 26 - TAMPERING WITH SOFTWARE

Types of entity **SYS_WEB: External portal**
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface

RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.27 POSITION DETECTION

Locatable equipment (e.g. triangulation)

Types of entity MAT_ACT.1: Transportable equipment

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

No rules for protecting the confidentiality of information that can be used to locate a personnel member (ticket requests, entry/exit records, etc.)

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance

PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Lack of discretion or vigilance

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No management support for application of the security policy

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

VULNERABILITIES LINKED TO ATTACK METHOD 27 - POSITION DETECTION

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment

MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.28 EQUIPMENT FAILURE

No diagnostic function to prevent equipment failures

Types of entity LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system

No protection against electrical disturbances

Types of entity MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware

Incorrect operating conditions

Types of entity RES_INF: Medium and supports
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware

Maintenance fault

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Poor equipment reliability

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Ageing of the equipment

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface
MAT_ACT: Data processing equipment (active)
MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment

Medium unsuitable for the life of data to be stored

Types of entity MAT_PAS.1: Electronic medium

Poor storage conditions

Types of entity MAT_PAS.1: Electronic medium

No clause covering response time for repair and replacement in the event of equipment failure

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

Maintenance contract monitoring not organised

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No monitoring of maintenance and support contracts with suppliers

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No failure reporting (volumes, cost of incidents, downtime)

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No rules covering conditions of use of information processing infrastructures (ban on smoking, drinks and food in rooms housing IT equipment)

Types of entity ORG_GEN: Structure of the organisation

No continuity plan covering the organisation's essential activities

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No quick response instructions to protect equipment in the event of water damage or fire

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

Analysis of match between needs and equipment capabilities not organised

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No rules covering conditions of use of information processing infrastructures (ban on smoking, drinks and food in rooms housing IT equipment)

Types of entity ORG_PRO: Project or system organisation

No implementation of incident monitoring to foresee failures or saturation (trend charts)

Types of entity PER_EXP: Operator / Maintenance
PER_DEC: Decision maker

No passing up of information for a centralised failure analysis

Types of entity PER_UTI: Users

Unfamiliarity with the instructions for using the equipment

Types of entity PER_UTI: Users

Failure to take into account a specific environment that increases the risks of failure (overheated atmosphere, industrial environment, etc.)

Types of entity PHY_LIE.3: Zone
PHY_LIE.2: Premises

No checking to confirm that emergency resources operate correctly

Types of entity PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution
PHY_SRV.2: Power
PHY_SRV.1: Communication

Manual triggering of the emergency solution

Types of entity PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution
PHY_SRV.2: Power
PHY_SRV.1: Communication

Poor medium reliability

Types of entity RES_INF: Medium and supports

Ageing of the medium

Types of entity RES_INF: Medium and supports

VULNERABILITIES LINKED TO ATTACK METHOD 28 - EQUIPMENT FAILURE

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network
PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution
PHY_SRV.2: Power
PHY_SRV.1: Communication
PHY_LIE: Places
PHY_LIE.3: Zone
PHY_LIE.2: Premises
PHY_LIE.1: External environment
PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel
ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers
ORG_DEP: Higher-tier organisation

ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.29 EQUIPMENT MALFUNCTION

No diagnostic function to prevent equipment failures

Types of entity LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system

No protection against electrical disturbances

Types of entity MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware

Incorrect operating conditions

Types of entity RES_INF: Medium and supports
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware

Poor equipment reliability

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Possibility of incompatibility between equipment items

Types of entity MAT_ACT: Data processing equipment (active)

	MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
	Medium unsuitable for the life of data to be stored
Types of entity	MAT_PAS.1: Electronic medium
	Poor storage conditions
Types of entity	MAT_PAS.1: Electronic medium
	No incident monitoring to foresee failures or saturation (trend charts)
Types of entity	ORG_DEP: Higher-tier organisation
	No rules imposing the use of standards
Types of entity	ORG_DEP: Higher-tier organisation
	No clause covering response time for repair and treatment in the event of malfunction
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
	No reporting on malfunctions
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
	No continuity plan covering the organisation's essential activities
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
	No operational qualification procedures
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
	No rules covering the operating environment of information processing infrastructures (temperature, humidity, etc.)
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
	Analysis of match between needs and equipment capabilities not organised
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
	No implementation of incident monitoring to foresee failures or saturation (trend charts)
Types of entity	PER_EXP: Operator / Maintenance PER_DEC: Decision maker
	Unfamiliarity with the instructions for using the equipment
Types of entity	PER_UTI: Users
	No passing up of information for a centralised failure analysis
Types of entity	PER_UTI: Users
	Failure to take into account a specific environment that increases the risks of failure (overheated atmosphere, industrial environment, etc.)
Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
	No checking to confirm that emergency resources operate correctly
Types of entity	PHY_SRV: Essential service

PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication

Manual triggering of the emergency solution

Types of entity PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication

Ageing of the medium

Types of entity RES_INF: Medium and supports

Possibility of incompatibility between the media and other components

Types of entity RES_INF: Medium and supports

Medium and supports with technical characteristics specific to their locality (e.g. different ADSL configuration parameters between France and the United Kingdom)

Types of entity RES_INF: Medium and supports

Poor medium reliability

Types of entity RES_INF: Medium and supports

Maintenance fault

Types of entity RES_REL: Passive or active relay
 RES_INF: Medium and supports

Interface with technical characteristics specific to the country (e.g. different telephone connectors between France and the United Kingdom)

Types of entity RES_INT: Communication interface

Possibility of incorrect configuration, installation or modification of relays

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

Ageing of the equipment

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

Possibility of incompatibility between resources

Types of entity RES_INT: Communication interface

VULNERABILITIES LINKED TO ATTACK METHOD 29 - EQUIPMENT
 MALFUNCTION

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution

PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.30 SATURATION OF THE INFORMATION SYSTEM

No filter to protect the system against saturation

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Unnecessary use of resources

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Application requiring computing resources not matched by the equipment (e.g.

insufficient RAM)

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Requirements defined for a project without taking into account special situations that put the system under limit conditions.

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No qualification of developments in a context representative of operation

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Incorrect sizing of resources (e.g. insufficient reserve time on a laptop battery).

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware
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Unwanted persistence of data on media

Types of entity	MAT_PAS.1: Electronic medium
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No rules imposing the use of standards

Types of entity	ORG_DEP: Higher-tier organisation
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No incident monitoring to foresee failures or saturation (trend charts)

Types of entity	ORG_DEP: Higher-tier organisation
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No contractual clause covering the quality of service of systems placed under limit conditions (intense demand on the system, input of non-compliant data, input of data corresponding to operating limits)

Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
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No policy for checking the correct sizing of the equipment of the information processing infrastructure, including the emergency equipment

Types of entity **ORG_PRO: Project or system organisation**
ORG_GEN: Structure of the organisation

No instructions for avoiding the use of IT resources in a manner that leads to saturation of storage spaces or processing resources.

Types of entity **ORG_PRO: Project or system organisation**
ORG_GEN: Structure of the organisation

No instructions relating to incidents (detection, action, etc.)

Types of entity **ORG_GEN: Structure of the organisation**

No decision to resize when significant increases in the use of IT resources are observed.

Types of entity **PER_DEC: Decision maker**

No implementation of incident monitoring to foresee failures or saturation (trend charts)

Types of entity **PER_EXP: Operator / Maintenance**

Insufficient training in the correct use of the information tool (disturbance of the system, installation of incompatible software, etc.)

Types of entity **PER_UTI: Users**

Obtaining an advantage through disrupting the information system

Types of entity **PER_UTI: Users**

Low awareness of the need to economise the organisation's IT resources (poor use of storage spaces, etc.)

Types of entity **PER_UTI: Users**

Incorrect sizing of telecommunication resources, resulting, for example, from daily use of resources intended for the emergency solution.

Types of entity **PHY_SRV.1: Communication**

Incorrect sizing of emergency resources

Types of entity **PHY_SRV.3: Cooling / pollution**
PHY_SRV.2: Power

Possibility of subjecting the relays to an excessive number of requests or intense interference (e.g. denial of service attacks such as smurfing, SYN flood etc.)

Types of entity **RES_REL: Passive or active relay**
RES_INT: Communication interface

Possibility of incorrect configuration, installation or modification of relays

Types of entity **RES_REL: Passive or active relay**
RES_INT: Communication interface

Incorrect sizing (e.g. too much data for the maximum passband)

Types of entity **RES_REL: Passive or active relay**

Incorrect sizing of resources (e.g. too many users for the maximum capacity of the directory)

Types of entity **SYS_ANU: Company directory**

Possibility of subjecting the system to an unlimited number of requests

Types of entity **SYS_WEB: External portal**
SYS_ITR: Intranet

SYS_INT: Internet access device
SYS_ANU: Company directory

Existence of periods or events that cause a very significant increase in use of the system

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ANU: Company directory

Incorrect sizing of resources (e.g. too many users for the number of connections possible and the passband)

Types of entity SYS_INT: Internet access device

No management of write rights in shared storage spaces.

Types of entity SYS_ITR: Intranet

Incorrect sizing of resources (e.g. not enough storage or file share space)

Types of entity SYS_ITR: Intranet

No partitioning of communication networks

Types of entity SYS_ITR: Intranet

Use of the internal distribution list accessible to everyone

Types of entity SYS_MES: Electronic messaging

Incorrect sizing of storage spaces for received messages

Types of entity SYS_MES: Electronic messaging

The messaging system allows automatic message transmission

Types of entity SYS_MES: Electronic messaging

No protection against spam

Types of entity SYS_MES: Electronic messaging

No limits on the size of attachments

Types of entity SYS_MES: Electronic messaging

Incorrect use of the messaging service (mailboxes used as storage space)

Types of entity SYS_MES: Electronic messaging

Public access to the gateway

Types of entity SYS_WEB: External portal

Incorrect sizing of resources (e.g. too many simultaneous connections)

Types of entity SYS_WEB: External portal

VULNERABILITIES LINKED TO ATTACK METHOD 30 - SATURATION OF THE INFORMATION SYSTEM

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports

RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.31 SOFTWARE MALFUNCTION

Possible side effects after updating a software component

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No storage of processing tracks

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application
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	LOG_APP.1: Standard business application LOG: Software
Lack of training in maintaining and operating new equipment	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
No maintenance procedure	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
No systematic qualification procedure before installation or updating	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
No clock synchronisation procedure	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
No passing up of information for a centralised malfunction analysis	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
Possibility of incorrect configuration, installation or modification of the operating system	
Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software

LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No report for maintenance operations

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Configuration of software components not managed or prone to management errors (e.g. application of a UK patch not adapted to a FR version)

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Documentation not up to date

Types of entity LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Applications are not checked before installation

Types of entity SYS_MES: Electronic messaging
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system

Use of an obsolete version of the operating system or applications

Types of entity SYS_MES: Electronic messaging
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system

No rules imposing the use of standards

Types of entity ORG_DEP: Higher-tier organisation

No incident monitoring to foresee failures or saturation (trend charts)

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses covering support and call-out conditions

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No policy for partitioning user environments to avoid unintentional assignment of rights to modify the system and application

Types of entity ORG_GEN: Structure of the organisation

No instructions aimed at eliminating risk-inducing behaviour in the use of information

resources

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No instructions relating to incidents (detection, action, etc.)

Types of entity ORG_GEN: Structure of the organisation

No continuity plan covering the organisation's essential activities

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

The computing equipment is not homogenous

Types of entity ORG_GEN: Structure of the organisation

Software not adequately tested before acceptance (test data set does not cover all the operating conditions - intense demand on the system, input of non-conforming data, input of data corresponding to operating limits)

Types of entity ORG_PRO: Project or system organisation

No incident monitoring to foresee malfunctions (trend charts)

Types of entity PER_DEC: Decision maker

Lack of training

Types of entity PER_DEV: Developer

No security rules for developments

Types of entity PER_DEV: Developer

No training in the use and maintenance of new software

Types of entity PER_EXP: Operator / Maintenance

Incorrect sizing of operating and maintenance resources

Types of entity PER_EXP: Operator / Maintenance

Failure to follow work procedures

Types of entity PER_EXP: Operator / Maintenance

Insufficient training in the correct use of the information tool (disturbance of the system, installation of incompatible software, etc.)

Types of entity PER_UTI: Users

Possibility of incorrect configuration, installation or modification of relays

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

Poor management of pilot releases and configurations

Types of entity RES_INT: Communication interface

Interface side effects (compatibility problems between protocols, etc.)

Types of entity RES_INT: Communication interface

Possibility of the system being subjected to badly formed requests and data (e.g. buffer overflow, denial of service on LDAP server)

Types of entity SYS_ITR: Intranet
 SYS_ANU: Company directory

Failure to comply with installation or maintenance procedures.

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory

Possibility of subjecting the system to an unlimited number of requests

Types of entity SYS_INT: Internet access device

Software incompatibility (e.g. side effect of message-filtering anti-virus software, etc.)

Types of entity SYS_MES: Electronic messaging

Possibility of the system being subjected to badly formed requests and data (e.g. buffer overflow, denial of service on SMTP, POP3, IMAP server)

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging

Use of an obsolete version of the messaging server

Types of entity SYS_MES: Electronic messaging

VULNERABILITIES LINKED TO ATTACK METHOD 31 - SOFTWARE MALFUNCTION

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)

MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.32 BREACH OF INFORMATION SYSTEM MAINTAINABILITY

Applications are not checked before installation

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No emergency procedure

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No backtrack procedure in the event of a modification error

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No maintenance procedure

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Documentation not up to date

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software

	LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No report of maintenance operations

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No storage of processing and modification tracks

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Specific software

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No training in the use and maintenance of new software

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Obsolete software

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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Non-upgradable software

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software
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LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Inaccessibility of support media outside the organisation or from a country with a large time difference

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Non-upgradable hardware

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Obsolete hardware

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Specific hardware

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Back-up hardware, software or procedures modified without taking old back-ups or archives into account

Types of entity MAT_PAS.1: Electronic medium

Obsolete medium

Types of entity MAT_PAS.1: Electronic medium

Loss or poor management of original documents (support contracts, licences, etc.)

Types of entity MAT_PAS.2: Other media

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

No contractual clause covering the activity (in the event of shutting down the activity, supplier bankruptcy, etc.)

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No guarantee of the organisation's durability

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No monitoring of maintenance and support contracts with suppliers

Types of entity ORG_PRO: Project or system organisation

	ORG_GEN: Structure of the organisation
No instructions relating to incidents (detection, action, etc.)	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No Quality Assurance Manual	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No organisation for protecting documentation and system maintenance resources	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No continuity plan covering the organisation's essential activities	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No procedures for system configuration management	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No use of norms or standards relating to information system development	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No training plan for maintenance of new systems	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
Technology chosen without guarantee of continuity	
Types of entity	PER_DEC: Decision maker
Low maintenance budget	
Types of entity	PER_DEC: Decision maker
Existence of obsolete components in the information processing infrastructure (development in languages no longer used, etc.)	
Types of entity	PER_DEC: Decision maker
Failure to comply with quality rules	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer
No standard or norm	
Types of entity	PER_DEV: Developer
Failure to comply with development rules	
Types of entity	PER_DEV: Developer
Insufficient training in the correct use of the information tool (disturbance of the system, installation of incompatible software, etc.)	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance
Use of software or developments outside the organisation's norms and standards	

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance

Maintenance fault

Types of entity RES_REL: Passive or active relay
RES_INF: Medium and supports

No cable layout plan

Types of entity RES_INF: Medium and supports

Maintenance or use of the equipment only possible if network supports are available

Types of entity RES_INF: Medium and supports

System maintained or operated via the network

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

No maximum response time for support guarantees

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

Use of an obsolete version of the operating system or applications

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

Use of an obsolete version of the messaging server

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

Use of an obsolete system

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

Use of a non-standard system

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

No monitoring of installation and maintenance procedures (configuration and parameter setting records)

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System
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No internal support tool

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System
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VULNERABILITIES LINKED TO ATTACK METHOD 32 - BREACH OF INFORMATION SYSTEM MAINTAINABILITY

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE: Places PHY_LIE.3: Zone PHY_LIE.2: Premises PHY_LIE.1: External environment PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers ORG_DEP: Higher-tier organisation ORG: Organisation MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware
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LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.33 UNAUTHORISED USE OF EQUIPMENT

No management of licences or registration and activation measures

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Possibility of installing a backdoor or Trojan horse in the operating system

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Shared use of connection identifier

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Resource sharing makes it easy for unauthorised persons to use the system

Types of entity LOG_OS: Operating system

The system is connected to external networks

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

The equipment can be used for purposes other than those intended (development of software for use outside the organisation, etc.)

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Media available to everyone

Types of entity MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium

Responsibilities for information systems security not dealt with in the internal regulations

Types of entity ORG_DEP: Higher-tier organisation

No security policy for protecting the information processing infrastructure in the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

Managers have no contact with the expertise or technology watch departments

Types of entity ORG_DEP: Higher-tier organisation

No awareness of the risks of sanction

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers

No contractual clauses relating to the use of IT equipment

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions concerning the use of IT equipment

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Possibility of using the organisation's resources without supervision (self-service equipment, etc.)

Types of entity ORG_GEN: Structure of the organisation

No monitoring procedure

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

The security policy is not applied

Types of entity ORG_GEN: Structure of the organisation

No IT charter specifying the rules of use

Types of entity PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 ORG_GEN: Structure of the organisation

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Personnel not aware of the risks of sanction

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker

Rights assigned without legitimate need

Types of entity PER_UTI: Users
 PER_DEC: Decision maker

Obtaining an advantage

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker
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Failure to comply with the IT charter specifying the rules of use

Types of entity	PER_UTI: Users PER_DEV: Developer PER_DEC: Decision maker
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Insufficient monitoring of material requirements for developing an application

Types of entity	PER_DEV: Developer
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No code of conduct

Types of entity	PER_DEV: Developer
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No management of the equipment assets

Types of entity	PER_EXP: Operator / Maintenance
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No procedures for checking authorisation of personnel entering the site or premises

Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
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No procedures for checking the identity of all persons entering the premises or zones

Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
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No logging of entry to the site

Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
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No measures to make communication lines and equipment secure

Types of entity	PHY_SRV.1: Communication
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The equipment allows system resources to be used from outside

Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network
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The equipment can be accessed by everyone

Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network
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The equipment is connected to external networks

Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network
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The system can be used for purposes other than those intended

Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
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RES_INF: Medium and supports
RES: Network

The equipment can be used for purposes other than those intended

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

No audit or supervision of accesses (for example inventory of accesses outside the organisation and types of data flow)

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

No access rules

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

The system is connected to external networks

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

The system can be accessed by everyone

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

VULNERABILITIES LINKED TO ATTACK METHOD 33 - UNAUTHORISED USE OF EQUIPMENT

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface

RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.34 FRAUDULENT COPYING OF SOFTWARE

No management of profile privileges (administrators, users, guest, etc.)

Types of entity	MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No management of licences or registration and activation measures

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software
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LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

Tempting or popular software

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Software can be easily copied

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Proprietary operating system distributions can be easily copied

Types of entity LOG_OS: Operating system

Tempting or popular operating system

Types of entity LOG_OS: Operating system

Equipment allowing data to be recorded on media (floppy disc, ZIP disc, CD/DVD writer)

Types of entity MAT_ACT.1: Transportable equipment

Equipment allowing data to be recorded on media (floppy disc, ZIP disc, CD/DVD writer)

Types of entity MAT_ACT.2: Fixed equipment

Lack of information concerning laws and regulations applicable to information processing

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation

Responsibilities for information systems security not dealt with in the internal regulations

Types of entity ORG_DEP: Higher-tier organisation

No licence monitoring policy imposed at the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses concerning the use of fraudulent copies of software

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No IT charter specifying the rules of use

Types of entity ORG_GEN: Structure of the organisation

No awareness of the risks of sanction

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No awareness or information concerning copyright law

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No monitoring procedure

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

The security policy is not applied

Types of entity ORG_GEN: Structure of the organisation

No management support for application of the security policy

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Unfamiliarity with security measures

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Obtaining an advantage

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Failure to comply with the IT charter specifying the rules of use

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEC: Decision maker

Personnel not aware of the risk of sanction

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEC: Decision maker

No procedures for checking the identity of all persons entering the premises or zones

Types of entity PHY_LIE.3: Zone
 PHY_LIE.2: Premises

No procedures for checking authorisation of personnel entering the site or the premises

Types of entity PHY_LIE.3: Zone
 PHY_LIE.2: Premises

No logging of entry to the site

Types of entity PHY_LIE.3: Zone

PHY_LIE.2: Premises

The origin of applications is not checked before installation

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System
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The access system allows software storage

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System
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The access system allows software downloads

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System
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VULNERABILITIES LINKED TO ATTACK METHOD 34 - FRAUDULENT COPYING OF SOFTWARE

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE: Places PHY_LIE.3: Zone PHY_LIE.2: Premises PHY_LIE.1: External environment PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
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ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.35 USE OF COUNTERFEIT OR COPIED SOFTWARE

No management of licences or registration and activation measures

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Software can be easily copied

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Tempting or popular software

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Possibility of the systems operating with illegally copied or counterfeit operating systems

Types of entity

LOG_OS: Operating system

Responsibilities for information systems security not dealt with in the internal regulations

Types of entity

ORG_DEP: Higher-tier organisation

No licence monitoring policy imposed at the organisation's sites

Types of entity

ORG_DEP: Higher-tier organisation

Contract contains no clauses concerning identification and verification of the origin of

the software.

Types of entity **ORG_EXT: Subcontractors / Suppliers / Manufacturers**

No awareness or information concerning copyright law

Types of entity **ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation**

No monitoring of product certification

Types of entity **ORG_GEN: Structure of the organisation**

No monitoring of product origin

Types of entity **ORG_GEN: Structure of the organisation**

No IT charter specifying the rules of use

Types of entity **ORG_GEN: Structure of the organisation**

The security policy does not include reminding all personnel of their obligations and responsibilities in civil, criminal and regulatory matters.

Types of entity **ORG_GEN: Structure of the organisation**

No definition of privileges limiting the possibility of installing software on workstations

Types of entity **ORG_PRO: Project or system organisation**

Personnel not aware of the risk of sanction

Types of entity **PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel**

Failure to comply with the IT charter specifying the rules of use

Types of entity **PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel**

Unfamiliarity with security measures

Types of entity **PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel**

No management support for application of the security policy

Types of entity **PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel**

No product certification

Types of entity **PER_DEV: Developer**

No procedure for assessing products

Types of entity **PER_DEV: Developer**

No procedure and means of verifying the origin of the software (code signature, binary signature, etc.)

Types of entity PER_DEV: Developer

No logging of entry to the site

Types of entity PHY_LIE.3: Zone
PHY_LIE.2: Premises

No procedures for checking authorisation of personnel entering the site or the premises

Types of entity PHY_LIE.3: Zone
PHY_LIE.2: Premises

No procedures for checking the identity of all persons entering the premises or zones

Types of entity PHY_LIE.3: Zone
PHY_LIE.2: Premises

The origin of applications is not checked before installation

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

The access system allows software storage

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

The access system allows software downloads

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

VULNERABILITIES LINKED TO ATTACK METHOD 35 - USE OF COUNTERFEIT OR COPIED SOFTWARE

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network
PHY_SRV: Essential service

PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.36 CORRUPTION OF DATA

No monitoring of data integrity

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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No procedure or system for authorising personnel to modify data

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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The remote maintenance link is permanently activated

Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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No restriction on software entry points

Types of entity	LOG_STD: Package software or standard software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Applications are not checked before installation

Types of entity	SYS_MES: Electronic messaging LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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No implementation of basic security rules applicable to the operating system and software

Types of entity	SYS_MES: Electronic messaging LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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The operating system allows access to data (data base, etc.)

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Possibility of remote system administration from any station

Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_OS: Operating system
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Possibility of remote administration of the system using non-encrypted administration tools

Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface
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	LOG_OS: Operating system
The software allows access to data (content of hard disc, data base, etc.)	
Types of entity	LOG_OS: Operating system
Connection passwords not sufficiently complex	
Types of entity	SYS_MES: Electronic messaging LOG_OS: Operating system
The operating system is not checked before installation	
Types of entity	LOG_OS: Operating system
Resource sharing makes it easy for unauthorised persons to use the system	
Types of entity	LOG_OS: Operating system
Possibility of remote system administration	
Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_OS: Operating system
The SNMP layer is activated	
Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_OS: Operating system
No data protection rules	
Types of entity	MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
The equipment can be booted from any peripheral (e.g. floppy disc, CD-ROM)	
Types of entity	MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
Obsolete hardware	
Types of entity	MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
No back-up redundancy or procedure	
Types of entity	MAT_ACT.2: Fixed equipment
Wear of media	
Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT.3: Processing peripheral
No means of protecting and monitoring data integrity	
Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT.3: Processing peripheral
No rules and procedures for personnel authorisation	
Types of entity	ORG_GEN: Structure of the organisation

	ORG_DEP: Higher-tier organisation
No authorisation management and monitoring policy imposed at the organisation's sites	
Types of entity	ORG_DEP: Higher-tier organisation
No information protection policy imposed at the organisation's sites	
Types of entity	ORG_DEP: Higher-tier organisation
Responsibilities for information systems security not dealt with in the internal regulations	
Types of entity	ORG_DEP: Higher-tier organisation
No policy for authorising access to information	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers
Accesses to the IS are not secured (gateways, intrusion detection, supervision of security events, etc.)	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers
No contractual clauses relating to the protection of IT equipment	
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
No monitoring of application of the security policy	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No instructions concerning the use of IT equipment	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No prevention and detection of viruses and other malicious programmes	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No access control to information	
Types of entity	ORG_GEN: Structure of the organisation
No training plan concerning security issues	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No procedures for checking external floppy disks	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No IT charter specifying the rules of use	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
Failure to comply with the IT charter specifying the rules of use	
Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance

	PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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No protection and classification of information

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Personnel not aware of the risk of sanction

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Unfamiliarity with security measures

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Personnel susceptible to enticement

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Conflictual situation between persons

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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No management support for application of the security policy

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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No procedures for checking the identity of all persons entering the premises or zones

Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
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No procedures for checking authorisation of personnel entering the site or the premises

Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
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No logging of entry to the site

Types of entity PHY_LIE.3: Zone
PHY_LIE.2: Premises

No measures to make communication lines and equipment secure

Types of entity PHY_SRV.1: Communication

No physical and logical protection (partitioning, etc.)

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network

Possibility of interfering with data transmitted via the communication media

Types of entity RES_INF: Medium and supports

The network allows the system resources to be modified or adjusted

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

The network makes it easy for unauthorised persons to use the resources

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

No robust access control system

Types of entity RES_REL: Passive or active relay

No back-up procedure

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_ANU: Company directory

The system allows remote deleting, modifying or installing of programmes

Types of entity SYS_ITR: Intranet
SYS_INT: Internet access device

The system allows hostile software such as Trojan horses, viruses, worms, logic bombs, etc. to be introduced

Types of entity SYS_ITR: Intranet
SYS_INT: Internet access device

The system allows asynchronous operation of certain parts or commands of the operating system (e.g. JavaScript components exploring the hard disc content)

Types of entity SYS_ITR: Intranet
SYS_INT: Internet access device

No partitioning of communication networks

Types of entity SYS_ITR: Intranet

The system allows asynchronous operation of certain parts or commands of the operating system to be exploited (e.g. automatic opening of attachments)

Types of entity SYS_MES: Electronic messaging

No audit or supervision of accesses

Types of entity SYS_WEB: External portal

No access rules

Types of entity SYS_WEB: External portal

VULNERABILITIES LINKED TO ATTACK METHOD 36 - DATA CORRUPTION

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.37 ILLEGAL PROCESSING OF DATA

Software can be used by everyone (e.g. no password required for remote administration of a workstation)

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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No encryption system

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Possibility of installing a backdoor or Trojan horse in the operating system

Types of entity	LOG_STD: Package software or standard software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Possibility of booting several operating systems on the same machine (e.g. access to NTFS partitions via Linux)

Types of entity	LOG_OS: Operating system
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Possibility of installing a backdoor or Trojan horse in the operating system

Types of entity	LOG_SRV: Service, maintenance or administration software
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No physical protection

Types of entity	MAT_ACT.3: Processing peripheral
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No means of identifying the sensitivity of information contained on the media

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
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Media available to everyone

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
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Tempting equipment (trading value, technology, strategic)

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
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Easily transported or removable media (e.g. floppy disc, ZIP disc, removable hard disc)

Types of entity	MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
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No means of encryption

Types of entity	MAT_PAS.1: Electronic medium
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No procedure and means for destruction

Types of entity MAT_PAS.1: Electronic medium

Lack of information concerning laws and regulations applicable to information processing

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_DEP: Higher-tier organisation

Managers have no contact with the expertise or technology watch departments

Types of entity ORG_DEP: Higher-tier organisation

No subject in the internal regulations dealing with responsibilities for information systems security

Types of entity ORG_DEP: Higher-tier organisation

No information protection policy imposed at the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

No confidentiality clause in the contract

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No provisions for monitoring and sanctioning

Types of entity ORG_PRO: Project or system organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers

No instructions relating to incidents (detection, action, etc.)

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

No access control to information

Types of entity ORG_GEN: Structure of the organisation

Lack of awareness of individual responsibilities

Types of entity ORG_GEN: Structure of the organisation

No one responsible for the protection of personal data and information

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

The security policy is not applied especially in relation to processing of personal information

Types of entity ORG_GEN: Structure of the organisation

Lack of personnel awareness

Types of entity ORG_PRO: Project or system organisation

No protection and audit of access to sensitive information

Types of entity ORG_PRO: Project or system organisation

Personnel not aware of the risk of sanction

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel

No training to explain the conditions controlling the lawful use of information

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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No protection and classification of information

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Unfamiliarity with security measures

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Access point allowing unlawful eavesdropping

Types of entity	RES_REL: Passive or active relay RES_INF: Medium and supports
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No identification of the system protection levels

Types of entity	SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory
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No content monitoring

Types of entity	SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory
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No audit or supervision of accesses

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory
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No management of access authorisation

Types of entity	SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory
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The system makes it easy to disclose information to the outside

Types of entity	SYS_MES: Electronic messaging SYS_INT: Internet access device SYS_ANU: Company directory
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The system is connected to external networks

Types of entity	SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory
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VULNERABILITIES LINKED TO ATTACK METHOD 37 - ILLEGAL PROCESSING OF DATA

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE: Places PHY_LIE.3: Zone PHY_LIE.2: Premises PHY_LIE.1: External environment PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers ORG_DEP: Higher-tier organisation ORG: Organisation MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software
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4.38 ERROR IN USE

No explicit documentation on the application systems

Types of entity	LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Users lack competency

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_INT: Communication interface MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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No procedure for testing incoming goods and confirming their compliance with the specifications

Types of entity	LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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No validation of keyed data entries

Types of entity	LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Lack of responsibility

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Application that is complex to use

Types of entity	LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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No accessible user support

Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INF: Medium and supports MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application
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Non-intuitive software

Types of entity	LOG_OS: Operating system
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Insufficient competency

Types of entity	LOG_OS: Operating system
-----------------	--------------------------

No accessible support

Types of entity	LOG_OS: Operating system
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No training in the use and maintenance of new software

Types of entity	LOG_OS: Operating system
-----------------	--------------------------

Software that is complex to use

Types of entity	LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software
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Equipment that is complex to use or not user-friendly

Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment
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MAT_ACT.1: Transportable equipment
MAT: Hardware

Incorrect operating conditions

Types of entity MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium
MAT_ACT: Data processing equipment (active)
MAT_ACT.3: Processing peripheral
MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment
MAT: Hardware

Possibility of some equipment being harmful to users (working in front of a screen, emanations, etc.)

Types of entity MAT_ACT: Data processing equipment (active)
MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment

No labelling of media

Types of entity MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium

Media are complex to use or not user-friendly

Types of entity MAT_PAS.1: Electronic medium

No monitoring of critical processes by the parent organisation

Types of entity ORG_DEP: Higher-tier organisation

No double checking of critical processes

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers

No training on the equipment or software used

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation

Lack of understanding of responsibilities

Types of entity PER_DEC: Decision maker

No formalisation of responsibilities known by everyone

Types of entity PER_DEC: Decision maker

Unfavourable work conditions

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker

Lack of professionalism

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker

Failure to comply with instructions

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker
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Users poorly trained or not trained at all

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker
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Some highly sensitive operations can be performed by a single person

Types of entity	PER_DEC: Decision maker
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No user documentation for existing applications

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer
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Lack of motivation for work involving data keying

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer
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Personnel not used to keying

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer
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Unfavourable work environment (rooms too small, lack of storage areas, etc.)

Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
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No labelling of cables or cable layout plan

Types of entity	PHY_SRV.1: Communication
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Technical rooms too cramped

Types of entity	PHY_SRV.1: Communication
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No operating procedure

Types of entity	PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power
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No up-to-date labelling and diagram of the architecture

Types of entity	RES_REL: Passive or active relay RES_INF: Medium and supports
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No cable layout plan

Types of entity	RES_INF: Medium and supports
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Interface with technical characteristics specific to the country (e.g. different telephone connectors between France and the United Kingdom)

Types of entity	RES_INT: Communication interface
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Medium and supports with technical characteristics specific to their locality (e.g.

different ADSL configuration parameters between France and the United Kingdom)

Types of entity RES_REL: Passive or active relay

No protection measures (read only, etc.)

Types of entity
 SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

No supervision tool

Types of entity
 SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

VULNERABILITIES LINKED TO ATTACK METHOD 38 - ERROR IN USE

Types of entity
 SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
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 PHY_LIE: Places
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 MAT_PAS.1: Electronic medium
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MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
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 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.39 ABUSE OF RIGHTS

No audit policy

Types of entity

SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No back-up of event logs

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

No event logging

Types of entity

SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

Assignment files too complex or unpractical

Types of entity

RES_REL: Passive or active relay
 RES_INT: Communication interface
 LOG_OS: Operating system

Connection passwords not sufficiently complex

Types of entity LOG_OS: Operating system

Possibility of remote administration of the system using non-encrypted administration tools

Types of entity LOG_OS: Operating system

The password base of the operating system is decipherable

Types of entity LOG_OS: Operating system

The SNMP layer is activated

Types of entity LOG_OS: Operating system

Possibility of the operating system being subjected to badly formed requests and data (e.g. buffer overflow)

Types of entity LOG_STD: Package software or standard software
LOG_OS: Operating system

The remote maintenance link is permanently activated

Types of entity LOG_OS: Operating system

Possibility of remote system administration

Types of entity LOG_OS: Operating system

The operating system logs can be modified by anyone

Types of entity LOG_OS: Operating system

Resource sharing makes it easy for unauthorised persons to use the system

Types of entity LOG_OS: Operating system

The operating system can be accessed and used by everyone (e.g. connection via the guest account)

Types of entity LOG_OS: Operating system

The operating system does not log system records or events

Types of entity LOG_OS: Operating system

The operating system can be used to make anonymous connections

Types of entity LOG_OS: Operating system

The operating system allows a session to be opened without password

Types of entity LOG_OS: Operating system

Possibility of remote system administration from any station

Types of entity LOG_OS: Operating system

Use of an obsolete version of the operating system or applications

Types of entity LOG_OS: Operating system

The passwords entered for access to the operating system are decipherable

Types of entity LOG_OS: Operating system

Possibility of booting several operating systems on the same machine (e.g. access to NTFS partitions via Linux)

Types of entity LOG_OS: Operating system

Software can be used by everyone (e.g. no password required for remote administration of a workstation)

Types of entity LOG_SRV: Service, maintenance or administration software

No physical protection

Types of entity MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No robust access control system

Types of entity MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

No audit of physical access control procedures

Types of entity MAT_PAS.2: Other media

No authorisation management and monitoring policy imposed at the organisation's sites

Types of entity ORG_DEP: Higher-tier organisation

Responsibilities for information systems security not dealt with in the internal regulations

Types of entity ORG_DEP: Higher-tier organisation

Managers have no contact with the expertise or technology watch departments

Types of entity ORG_DEP: Higher-tier organisation

No contractual clauses setting out the responsibilities of both parties

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No definition of the right to know

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No provisions for monitoring and sanctioning

Types of entity ORG_GEN: Structure of the organisation

No regulation defining rights

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Assignment of user rights is not clearly defined

Types of entity ORG_GEN: Structure of the organisation

User grant rights are not controlled.

Types of entity ORG_PRO: Project or system organisation

Personnel categories with higher access privileges

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No management support for application of the security policy

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer

PER_DEC: Decision maker
 PER: Personnel

Some highly sensitive operations can be performed by a single person

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Obtaining an advantage

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

The notion of right is not defined for the personnel

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

No procedures for checking authorisation of personnel entering the site or the premises

Types of entity PHY_LIE.3: Zone
 PHY_LIE.2: Premises

No physical and logical protection

Types of entity RES_INF: Medium and supports

The principle of least privilege is not applied

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface

Resources can be used without tracking

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

The system can be accessed by everyone

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System

VULNERABILITIES LINKED TO ATTACK METHOD 39 - ABUSE OF RIGHTS

Types of entity	<p> SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory SYS: System RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network PHY_SRV: Essential service PHY_SRV.3: Cooling / pollution PHY_SRV.2: Power PHY_SRV.1: Communication PHY_LIE: Places PHY_LIE.3: Zone PHY_LIE.2: Premises PHY_LIE.1: External environment PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation ORG_EXT: Subcontractors / Suppliers / Manufacturers ORG_DEP: Higher-tier organisation ORG: Organisation MAT_PAS: Data medium (passive) MAT_PAS.2: Other media MAT_PAS.1: Electronic medium MAT_ACT: Data processing equipment (active) MAT_ACT.3: Processing peripheral MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment MAT: Hardware LOG_STD: Package software or standard software LOG_SRV: Service, maintenance or administration software LOG_OS: Operating system LOG_APP: Business application LOG_APP.2: Specific business application LOG_APP.1: Standard business application LOG: Software </p>
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4.40 FORGING OF RIGHTS

No audit policy

Types of entity	<p> SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device SYS_ANU: Company directory </p>
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LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No back-up of event logs

Types of entity LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

No event logging

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

The operating system logs can be modified by anyone

Types of entity LOG_OS: Operating system

The operating system allows a session to be opened without password

Types of entity LOG_OS: Operating system

The operating system can be used to make anonymous connections

Types of entity LOG_OS: Operating system

The operating system does not log system records or events

Types of entity LOG_OS: Operating system

The operating system can be accessed and used by everyone (e.g. connection via the guest account)

Types of entity LOG_OS: Operating system

Resource sharing makes it easy for unauthorised persons to use the system

Types of entity LOG_OS: Operating system

The password base of the operating system is decipherable

Types of entity LOG_OS: Operating system

The SNMP layer is activated

Types of entity SYS_MES: Electronic messaging
 LOG_OS: Operating system

Assignment files too complex or unpractical

Types of entity RES_REL: Passive or active relay
 RES_INT: Communication interface

	LOG_OS: Operating system
Possibility of remote administration of the system using non-encrypted administration tools	
Types of entity	SYS_MES: Electronic messaging LOG_OS: Operating system
Possibility of remote system administration	
Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_OS: Operating system
The remote maintenance link is permanently activated	
Types of entity	SYS_MES: Electronic messaging RES_REL: Passive or active relay RES_INT: Communication interface LOG_OS: Operating system
The passwords entered for access to the operating system are decipherable	
Types of entity	LOG_OS: Operating system
Connection passwords not sufficiently complex	
Types of entity	SYS_MES: Electronic messaging LOG_OS: Operating system
Use of an obsolete version of the operating system or applications	
Types of entity	SYS_MES: Electronic messaging LOG_OS: Operating system
Possibility of the system being subjected to badly formed requests and data (e.g. buffer overflow)	
Types of entity	LOG_STD: Package software or standard software LOG_OS: Operating system
Possibility of booting several operating systems on the same machine (e.g. access to NTFS partitions via Linux)	
Types of entity	LOG_OS: Operating system
Possibility of remote system administration from any station	
Types of entity	SYS_MES: Electronic messaging LOG_OS: Operating system
Software can be used by everyone (e.g. no password required for remote administration of a workstation)	
Types of entity	LOG_SRV: Service, maintenance or administration software
The equipment is connected to external networks	
Types of entity	MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
No robust access control system	
Types of entity	RES_REL: Passive or active relay MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment

No partitioning of equipment

Types of entity MAT_ACT.3: Processing peripheral

No protection of media

Types of entity MAT_PAS.1: Electronic medium

No audit of physical access control procedures

Types of entity MAT_PAS.2: Other media

Managers have no contact with the expertise or technology watch departments

Types of entity ORG_DEP: Higher-tier organisation

No rules and procedures for personnel authorisation

Types of entity ORG_DEP: Higher-tier organisation

No awareness of the risks of sanction

Types of entity ORG_DEP: Higher-tier organisation

Responsibilities for information systems security not dealt with in the internal regulations

Types of entity ORG_DEP: Higher-tier organisation

No monitoring procedure

Types of entity ORG_GEN: Structure of the organisation
ORG_DEP: Higher-tier organisation

Possibility of using the organisation's resources without supervision (self-service equipment, etc.)

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers

No protection of spaces dedicated to information exchange or sharing

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No procedure for personnel authorisation

Types of entity ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers

No climate of trust between individuals

Types of entity ORG_PRO: Project or system organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers

The security responsibilities concerning authorisation management are not formalised.

Types of entity ORG_GEN: Structure of the organisation

Personnel receive no communication or information concerning authorisation procedures

Types of entity ORG_GEN: Structure of the organisation

No procedure for passing up information in the event of detection

Types of entity ORG_GEN: Structure of the organisation

The security policy is not applied

Types of entity ORG_GEN: Structure of the organisation

Inappropriate organisation

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
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Rights assigned without legitimate need

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Conflictual situation between persons

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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No code of conduct

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Obtaining an advantage

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Some highly sensitive operations can be performed by a single person

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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No management support for application of the security policy

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
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Missions not suited to the personnel

Types of entity	PER_UTI: Users PER_EXP: Operator / Maintenance
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	PER_DEV: Developer PER_DEC: Decision maker PER: Personnel
No procedures for checking authorisation of personnel entering the site or the premises	
Types of entity	PHY_LIE.3: Zone PHY_LIE.2: Premises
No physical and logical protection (partitioning, etc.)	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface RES_INF: Medium and supports RES: Network
No network partitioning	
Types of entity	RES_REL: Passive or active relay RES_INF: Medium and supports
The interfaces are connected to external networks	
Types of entity	RES_INF: Medium and supports
The supports and medium are connected to external networks	
Types of entity	RES_INF: Medium and supports
Technical characteristics can be modified (e.g. MAC address of an Ethernet card)	
Types of entity	RES_INF: Medium and supports
No physical protection	
Types of entity	RES_REL: Passive or active relay RES_INF: Medium and supports
The network allows the system resources to be modified or adjusted	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
Presence of protocol that has no authentication function	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
The interfaces can be accessed by everyone	
Types of entity	RES_INT: Communication interface
The network makes it easy for unauthorised persons to use the resources	
Types of entity	RES_REL: Passive or active relay RES_INT: Communication interface
The relays identify neither the sources nor the destinations (example of impact: system vulnerable to spoofing attacks)	
Types of entity	RES_REL: Passive or active relay
The system can be accessed by everyone	
Types of entity	SYS_WEB: External portal SYS_MES: Electronic messaging SYS_ITR: Intranet SYS_INT: Internet access device

SYS_ANU: Company directory

Possibility of the operating system being subjected to badly formed requests and data (e.g. buffer overflow)

Types of entity SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory

Applications are not checked before installation

Types of entity SYS_MES: Electronic messaging

The messaging system can be accessed from Internet

Types of entity SYS_MES: Electronic messaging

Use of an obsolete version of the messaging server

Types of entity SYS_MES: Electronic messaging

VULNERABILITIES LINKED TO ATTACK METHOD 40 - USURPING OF RIGHT

Types of entity SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.41 DENIAL OF ACTIONS

No audit policy

Types of entity

SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

No back-up of event logs

Types of entity

LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

No event logging

Types of entity

SYS_WEB: External portal
 SYS_MES: Electronic messaging
 SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application

The operating system does not log system records or events

Types of entity

LOG_OS: Operating system

The SNMP layer is activated

Types of entity

LOG_OS: Operating system

Possibility of remote administration of the system using non-encrypted administration tools

Types of entity LOG_OS: Operating system

Assignment files too complex or unpractical

Types of entity RES_REL: Passive or active relay
RES_INF: Medium and supports
LOG_OS: Operating system

Connection passwords not sufficiently complex

Types of entity LOG_OS: Operating system

The passwords entered for access to the operating system are decipherable

Types of entity LOG_OS: Operating system

The password base of the operating system is decipherable

Types of entity LOG_OS: Operating system

The operating system can be used to make anonymous connections

Types of entity LOG_OS: Operating system

Possibility of the operating system being subjected to badly formed requests and data (e.g. buffer overflow)

Types of entity LOG_STD: Package software or standard software
LOG_OS: Operating system

Possibility of remote system administration from any station

Types of entity LOG_OS: Operating system

Use of an obsolete version of the operating system or applications

Types of entity LOG_OS: Operating system

The operating system can be accessed and used by everyone (e.g. connection via the guest account)

Types of entity LOG_OS: Operating system

Possibility of remote system administration

Types of entity LOG_OS: Operating system

The operating system logs can be modified by anyone

Types of entity LOG_OS: Operating system

Possibility of booting several operating systems on the same machine (e.g. access to NTFS partitions via Linux)

Types of entity LOG_OS: Operating system

The operating system allows a session to be opened without password

Types of entity LOG_OS: Operating system

The remote maintenance link is permanently activated

Types of entity LOG_OS: Operating system

Resource sharing makes it easy for unauthorised persons to use the system

Types of entity LOG_OS: Operating system

Software can be used by everyone (e.g. no password required for remote administration of a workstation)

Types of entity LOG_SRV: Service, maintenance or administration software

No tracking and auditing system

Types of entity RES_REL: Passive or active relay
 RES_INF: Medium and supports
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

The equipment can be accessed and used by everyone

Types of entity MAT_ACT: Data processing equipment (active)
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment

Media available to everyone

Types of entity MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium

No procedure for access to classified information

Types of entity MAT_PAS.2: Other media

Change of the organisation's policy or strategy

Types of entity PER_UTI: Users
 PER_DEC: Decision maker
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_DEP: Higher-tier organisation

No definition of responsibilities

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_DEP: Higher-tier organisation

Responsibilities for information systems security not dealt with in the internal regulations

Types of entity ORG_DEP: Higher-tier organisation

No disciplinary procedures

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_DEP: Higher-tier organisation

High political / economic stakes

Types of entity ORG_DEP: Higher-tier organisation

No global policy for managing and archiving tracks and other elements of proof

Types of entity ORG_DEP: Higher-tier organisation

No contractual clause concerning the definition of communication and exchange procedures

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No mutual checking of codes

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

Penalty or sanction clause out of proportion or not suited to the context

Types of entity ORG_EXT: Subcontractors / Suppliers / Manufacturers

No mechanism for monitoring actions, logs and alerts

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

Possibility of using the organisation's resources without supervision (self-service equipment, etc.)

Types of entity ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation

No hierarchical organisation or reporting procedure

Types of entity ORG_PRO: Project or system organisation

Audit functions are not separate from monitoring functions

Types of entity ORG_PRO: Project or system organisation

No management support for application of the security policy

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel

Obtaining an advantage

Types of entity PER_UTI: Users
 PER_DEC: Decision maker

Lack of confidence in the organisation

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker

Responsibility of each person not known

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker

Conflictual situation between persons

Types of entity PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker

No history recording persons entering and leaving

Types of entity PHY_LIE.3: Zone
 PHY_LIE.2: Premises

The relays can be accessed by everyone

Types of entity RES_REL: Passive or active relay
 RES_INF: Medium and supports

The medium allows system resources to be used from outside

Types of entity RES_INF: Medium and supports

The supports and medium can be accessed by everyone and are active by default (e.g. RJ45 connectors intermingled)

Types of entity RES_INF: Medium and supports

The network makes it easy for unauthorised persons to use the resources

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

The protocol does not allow certain identification of the sender

Types of entity RES_INT: Communication interface

The network allows the system resources to be modified or adjusted

Types of entity RES_REL: Passive or active relay
RES_INT: Communication interface

The protocol does not allow acknowledgement of receipt to be sent

Types of entity RES_INT: Communication interface

Resources can be used without tracking

Types of entity RES_INT: Communication interface

The access system does not log tracks of its operation

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

Access to the tracking system is not protected

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

The system can be accessed by everyone (e.g. does not authenticate client stations or users)

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

The system is connected to external networks

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System

VULNERABILITIES LINKED TO ATTACK METHOD 41 - DENIAL OF ACTIONS

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging

SYS_ITR: Intranet
 SYS_INT: Internet access device
 SYS_ANU: Company directory
 SYS: System
 RES_REL: Passive or active relay
 RES_INT: Communication interface
 RES_INF: Medium and supports
 RES: Network
 PHY_SRV: Essential service
 PHY_SRV.3: Cooling / pollution
 PHY_SRV.2: Power
 PHY_SRV.1: Communication
 PHY_LIE: Places
 PHY_LIE.3: Zone
 PHY_LIE.2: Premises
 PHY_LIE.1: External environment
 PER_UTI: Users
 PER_EXP: Operator / Maintenance
 PER_DEV: Developer
 PER_DEC: Decision maker
 PER: Personnel
 ORG_PRO: Project or system organisation
 ORG_GEN: Structure of the organisation
 ORG_EXT: Subcontractors / Suppliers / Manufacturers
 ORG_DEP: Higher-tier organisation
 ORG: Organisation
 MAT_PAS: Data medium (passive)
 MAT_PAS.2: Other media
 MAT_PAS.1: Electronic medium
 MAT_ACT: Data processing equipment (active)
 MAT_ACT.3: Processing peripheral
 MAT_ACT.2: Fixed equipment
 MAT_ACT.1: Transportable equipment
 MAT: Hardware
 LOG_STD: Package software or standard software
 LOG_SRV: Service, maintenance or administration software
 LOG_OS: Operating system
 LOG_APP: Business application
 LOG_APP.2: Specific business application
 LOG_APP.1: Standard business application
 LOG: Software

4.42 BREACH OF PERSONNEL AVAILABILITY

Possibility of some equipment being harmful to users (working in front of a screen, emanations, etc.)

Types of entity	MAT_ACT: Data processing equipment (active) MAT_ACT.2: Fixed equipment MAT_ACT.1: Transportable equipment
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No archiving procedure

Types of entity	MAT_PAS: Data medium (passive)
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	MAT_PAS.2: Other media MAT_PAS.1: Electronic medium
Unfavourable industrial relations	
Types of entity	ORG_DEP: Higher-tier organisation
Political / economic conflict between the organisation's home country and its host country	
Types of entity	ORG_GEN: Structure of the organisation ORG_DEP: Higher-tier organisation
No clause or procedures for transfer of knowledge	
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
The organisation's financial or technological continuity is not secure	
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
No continuity clause for service provision	
Types of entity	ORG_EXT: Subcontractors / Suppliers / Manufacturers
No personnel protection team	
Types of entity	ORG_GEN: Structure of the organisation
Viral epidemic in the locality	
Types of entity	ORG_GEN: Structure of the organisation
No procedures for transfer of knowledge	
Types of entity	PER_UTI: Users ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
The organisation's activity is impaired by its industrial relations	
Types of entity	ORG_GEN: Structure of the organisation
No awareness and training programme for processes relating to continuity of professional activities	
Types of entity	ORG_PRO: Project or system organisation ORG_GEN: Structure of the organisation
No process for managing the continuity of the organisation's professional activities	
Types of entity	ORG_GEN: Structure of the organisation
The organisation is under-sized	
Types of entity	ORG_PRO: Project or system organisation
No substitutes for strategic personnel	
Types of entity	ORG_PRO: Project or system organisation
No substitute organisation for sensitive functions	
Types of entity	ORG_PRO: Project or system organisation
No process for managing the continuity of the project team's professional activities	
Types of entity	ORG_PRO: Project or system organisation
No document base for rules and procedures	
Types of entity	ORG_PRO: Project or system organisation
Unavailability arising from a competition factor	

Types of entity PER_DEC: Decision maker

Unavailability caused by illness

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer

Unavailability caused by absenteeism

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer

Unavailability caused by third parties (physical aggression, hostage taking, etc.)

Types of entity PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer

Social problems

Types of entity PER_EXP: Operator / Maintenance
PER_DEV: Developer

Conflictual industrial relations

Types of entity PER_UTI: Users

Difficult industrial relations possibly resulting in transport strikes

Types of entity PHY_LIE.1: External environment

Specialised personnel accommodated in remote rooms

Types of entity PHY_LIE.2: Premises

Personnel living a long way from the premises

Types of entity PHY_LIE.2: Premises

Possible harm to personnel using the equipment (wireless transmission, emanations, etc.)

Types of entity RES_REL: Passive or active relay
RES_INF: Medium and supports

VULNERABILITIES LINKED TO ATTACK METHOD 42 - BREACH OF PERSONNEL AVAILABILITY

Types of entity SYS_WEB: External portal
SYS_MES: Electronic messaging
SYS_ITR: Intranet
SYS_INT: Internet access device
SYS_ANU: Company directory
SYS: System
RES_REL: Passive or active relay
RES_INT: Communication interface
RES_INF: Medium and supports
RES: Network
PHY_SRV: Essential service
PHY_SRV.3: Cooling / pollution
PHY_SRV.2: Power
PHY_SRV.1: Communication
PHY_LIE: Places

PHY_LIE.3: Zone
PHY_LIE.2: Premises
PHY_LIE.1: External environment
PER_UTI: Users
PER_EXP: Operator / Maintenance
PER_DEV: Developer
PER_DEC: Decision maker
PER: Personnel
ORG_PRO: Project or system organisation
ORG_GEN: Structure of the organisation
ORG_EXT: Subcontractors / Suppliers / Manufacturers
ORG_DEP: Higher-tier organisation
ORG: Organisation
MAT_PAS: Data medium (passive)
MAT_PAS.2: Other media
MAT_PAS.1: Electronic medium
MAT_ACT: Data processing equipment (active)
MAT_ACT.3: Processing peripheral
MAT_ACT.2: Fixed equipment
MAT_ACT.1: Transportable equipment
MAT: Hardware
LOG_STD: Package software or standard software
LOG_SRV: Service, maintenance or administration software
LOG_OS: Operating system
LOG_APP: Business application
LOG_APP.2: Specific business application
LOG_APP.1: Standard business application
LOG: Software

Comments collection form

This form can be sent to the following address:

Secrétariat général de la défense nationale
Direction centrale de la sécurité des systèmes d'information
Sous-direction des opérations
Bureau conseil
51 boulevard de La Tour-Maubourg
75700 PARIS 07 SP
FRANCE
conseil.dcssi@sgdn.pm.gouv.fr

Contributor information

Name and organisation (optional):
E-mail address:
Date:

General remarks about the document

Does the document meet your needs? Yes No

If yes:

Do you think its content could be improved? Yes No

If yes:

What else would you like to have found in it?

.....
.....

Which sections of the document seem unhelpful or poorly adapted?

.....
.....

Do you think its form could be improved? Yes No

If yes:

Which aspects could be improved?

- readability, comprehension
- layout
- other

Specify the improvements in form you would like to see:

.....
.....

If no:

Specify the field for which it is poorly adapted and define what would have suited you:

.....
.....

Which other subjects would you like to see being dealt with?

.....
.....

Specific remarks about the document

Detailed comments can be formulated using the following table:

"No." indicates a sequential number.

"Type" comprises two letters:

The first letter indicates the remark category:

- O Spelling or grammar mistake
- E Lack of explanation or clarification for a given point
- I Incomplete or missing text
- R Error

The second letter indicates its seriousness:

- m minor
- M Major

"Reference" indicates the exact place in the text (paragraph number, line, etc.)

"Content of the remark" is where you should write the comment.

"Proposed solution" is used to submit a proposal for solving the problem described.

No.	Type	Reference	Content of the remark	Proposed solution
1				
2				
3				
4				
5				

Thank you for your help
