# **Information Security Annex**

- hereinafter referred to as "ISA" -

#### **GENERAL PRINCIPLES**

This Information Security Annex (ISA) establishes the information security measures. If applicable to the Deliverables listed in the Agreement, the Supplier must consider these measures as a minimum of security standard and they must apply for the duration of the Agreement, regardless whether the Deliverables are procured by the Agreement or via its subcontractors.

These measures cover different aspects of information security and some are applicable depending on the nature of the Deliverables concerned by the Agreement.

#### **GENERAL APPLICABILITY OF ISA**

The Supplier shall comply with ISA requirements for all Deliverables as defined in the following:

- Software refers to off-the-shelf vendor software and/or custom software resulting from a Statement
  of Work/Technical specification mutually agreed by the Parties (e.g. Software Result);
- Hardware including any embedded software/firmware (e.g. end-user equipment and devices for Internet of Things, IT equipment, etc.);
- XaaS/Cloud Services (e.g. Software as a Service); and
- Professional Services for performing installation, training, integration, maintenance and/or consulting.

#### GENERAL APPLICABILITY OF SPECIFIC SECTIONS REGARDING THE DELIVERABLES

The following sections are applicable to any kind of Supplier Deliverable:

- Section A: "Contractual and standards compliance"
- Section B: "Security organization"
- Section C: "Incident management"

The following sections apply according to the nature of Deliverables as defined in table A:

- Section D: "Cryptography and authentication"
- Section E: "Security by design"
- Section F: "Software Vulnerabilities fixing"
- Section G: "Purchaser Data in XaaS/Cloud Services"
- Section H: "Access control of XaaS/Cloud Services"
- Section I: "Operations of XaaS/Cloud Services"
- Section J: "Access to and use of Purchaser systems and resources"
- Section K: "Professionals and security"

Deliverable	Applicable sections	
Software	A, B, C, D, E, F	
Hardware	A,B, C, D, E, F	
XaaS/Cloud	A, B,C, D, E, F, G, H, I	
Services		
Professional		
Services	A, B, C, J, K	

Table A: Applicability of ISA sections

### A CONTRACTUAL AND STANDARDS COMPLIANCE

### A.1 Security assessment of Deliverables

Upon request of the Purchaser, the Supplier shall provide the Purchaser within 10 working days all necessary information to assess the security of Deliverables such as security test/audit reports, vulnerability scans and code robustness analyses.

### A.2 Security policies

The Supplier shall apply an enterprise information security policy according to ISO/IEC 27001 standard or similar industry-recognized practice.

If the Supplier is certified, itshall provide the Purchaser with its security certification and keep it informed of renewals or revocations of its certificates.

If the Supplier was selected by the Purchaser based on a certification (e.g. ISO/IEC 27001), the Supplier shall maintain such certification during the entire term of its contractual duties.

### A.3 Audit

The Purchaser shall have the right to undertake audits to check Supplier's compliance with the Purchaser's and Orange's security requirements as defined in the Agreement.

### A.4 Third Parties

In case the Supplier uses Third Parties in providing the Deliverables to the Purchaser, the Supplier shall ensure that such Third Parties meet the security measures agreed in the Agreement.

### A.5 Failure to comply with this ISA

In case Supplier becomes aware of a non-compliance with security measures in its Deliverables, the Supplier shall promptly provide the Purchaser with an analysis of the situation and a remediation plan. If the remediation plan is accepted by the Purchaser, it will be implemented by the Supplier at no cost to Purchaser and the Supplier shall provide proof of remediation plan's efficiency.

If non-compliance persists or a remediation plan is not accepted or fails, this will automatically become a material breach of the Agreement.

### **B** SECURITY ORGANIZATION

### **B.1** Structure

Upon request of the Purchaser, the Supplier shall provide information about its security organization.

#### B.2 Point of contact

The Supplier nominates a contact person for security as follows: ......

### **B.3 Security reviews**

Once a year, upon request of one or both Parties, the Supplier and the Purchaser shall organize a meeting to review security aspects (e.g. evolutions and scheduled operations that may impact security).

Each Party can ask for an exceptional security meeting that shall be accepted by the other Party if the situation imposes a common analysis or immediate decision (for example a major incident or a significant evolution of threats).

#### B.4 Security measure for Purchaser data

The Supplier shall implement the following measures on data classified as confidential by the Purchaser:

- all data shall be encrypted when stored and transmitted; and
- a strong authentication system (e.g. two-factor authentication system) shall be implemented.

The Parties shall agree in advance on a method of exchange in case of a need to exchange encrypted information.

#### C INCIDENT MANAGEMENT

#### C.1 Detection

The Supplier shall have measures in place to detect security incidents impacting the Purchaser and occurring in the Supplier's environment. Security incidents include but are not limited to loss, alteration, disclosure or unauthorized access to Purchaser data or information and unauthorized disclosure of proprietary source code.

#### C.2 Notification

The Supplier shall promptly notify the Purchaser in case of any such security incident.

Where breach and/or misappropriation of Purchaser's data or information are determined, the Supplier shall notify the Purchaser according to applicable laws but within 24 hours latest.

Details of security incidents shall be retained by the Supplier at least until the next security review between the Parties.

## C.3 Resolution

The Supplier shall use best efforts to immediately resolve security incidents and inform the Purchaser of progress and end-of-incident.

### C.4 Suspension of Supplier access to Purchaser systems

NOTE: This paragraph C.4 is not applicable to Software, Hardware Deliverables and XaaS/Cloud Services.

In the event of a security incident concerning Professional Services, the Purchaser may suspend Supplier access to Purchaser systems until the incident is resolved.

### C.5 Suspension of Purchaser access to Xaas/Cloud Services

NOTE: This paragraph C.5 is not applicable to Software, Hardware Deliverables and Professional Services.

In the event of a security incident concerning XaaS/Cloud Services (e.g. system intrusion, malware incident), the Purchaser may suspend its access to the said Service until the incident is resolved.

In the event where the Purchaser is not able to suspend access, the Purchaser shall explicitly request the Supplier to suspend all Purchaser access until the incident is resolved. Supplier shall promptly comply with such request.

## C.6 Security report for XaaS/Cloud Services and Professional Services

NOTE: This paragraph C.6 is not applicable to Software and Hardware Deliverables.

The Purchaser may request from the Supplier a security report related to the XaaS/Cloud Services and/or Professional Services no more than twice a year. This security report shall include but is not limited to the following information:

- the number of security incidents detected over the last 12 months, separately for internal and external causes if relevant; and
- details of security incidents over the period (detection time, nature and impact, resolution, service recovery time, closing time, time for resolution).

#### D CRYPTOGRAPHY AND AUTHENTICATION

## D.1 Modification of authentication data and cryptographic keys by Purchaser

All authentication data and cryptographic keys (e.g. certificates, key pairs, symmetric keys, passwords) in Software and Hardware Deliverables shall be modifiable by the Purchaser and protected according to state-of-art. For authentication data and cryptographic keys that are not modifiable by the Purchaser, Supplier shall provide a list of such data and their purpose to the Purchaser. For XaaS/Cloud Services, this requirement applies only to authentication data used by the Purchaser for protecting its data.

### D.2 Strength of cryptographic algorithms and keys

The Supplier shall implement only standardised cryptographic algorithms recommended by governmental institutions (such as BSI, ANSSI and NIST) at the time the Agreement is agreed or renewed.

#### **E SECURITY BY DESIGN**

#### E.1 Hardening

The Supplier shall employ standardized system hardening practices. This includes restricting protocol access, removing or disabling unnecessary software, network ports and services, removing unnecessary files, user accounts, restricting file permissions, patch management and logging.

The Supplier shall provide Deliverables (including Third Party components and services) that are securely configured by default according to state-of-the-art security configuration practices (such as <a href="https://www.cisecurity.org/">https://www.cisecurity.org/</a>).

Notwithstanding the above, the Supplier shall provide the Purchaser with all necessary information to securely configure and use Deliverables and shall ensure that such information is always up-to-date during the term of the Agreement.

In addition, the Supplier shall ensure that Deliverables do not contain any Back Doors.

### E.2 Testing for software security errors

The Supplier shall test the Deliverables to ensure that they are free of dangerous software errors listed in "CWE/SANS Top 25" (http://cwe.mitre.org) and/or "OWASP TOP 10" (http://www.owasp.org) at the delivery date (e.g. robustness against unexpected inputs such as SQL Injection, predictable behaviour in overload situations, etc.).

#### E.3 Additional measures

Upon request of the Purchaser, the Parties may mutually agree on additional security measures that Deliverables must satisfy.

These additional measures may be gathered in a document called "Security Statement of Compliance" and be included in the Agreement and/or in the NPA.

#### F SOFTWARE VULNERABILITIES FIXING

#### F.1 Detection

The Supplier shall have measures in place to continuously monitor external security advisory sources (such as cooperative security tests, external security research, open source and third party disclosure, ...) and track Vulnerabilities that could impact the Deliverables (including Third Party components).

### F.2 CVE Standard

Where appropriate, each Vulnerability detected by the Supplier shall have a unique CVE identifier associated with a CVSS score (v2 or higher). Any alternative must be agreed in writing with the Purchaser.

#### F.3 Notifications

The Supplier shall promptly provide information to the Purchaser about each Vulnerability (with CVSS score greater or equal than 7.0) including Zero-Day impacting the Deliverables and its consequences (e.g. CVE if exists, CVSS score, affected components or services).

## F.4 Service level agreement to fix Vulnerabilities

For each Vulnerability impacting the Deliverables, the Supplier shall:

- make all efforts to provide a Temporary Fix to the Purchaser according to the following table; and
- make the Official Fix available to the Purchaser according to the following table.

CVSS base	The maximum time to provide	The maximum time to provide
score v2	a Temporary Fix	the Official Fix
7.0-10.0	7 (seven) calendar days	30 (thirty) calendar days
0-6.9	not applicable	6 (six) months

The time counter starts when the Vulnerability is detected, except for a Vulnerability located on Third Party components where the time counter starts when a fix is available.

### F.5 Security maintenance of third party components

The Supplier shall ensure that Third Party components used within the Deliverables are security maintained during the period of maintenance or Service contracted by the Purchaser.

### F.6 Security Defects

The Supplier shall accept for each Vulnerability impacting the Deliverables and detected by the Purchaser during the contracted period of maintenance and/or warranty period that the Purchaser can open a maintenance ticket to fix it. In addition to section F.4, the Supplier shall respect the maintenance conditions to correct the Defect related to the Vulnerability.

#### F.7 Exceptions

The Supplier shall employ commercially reasonable efforts to support the Purchaser to fix Vulnerabilities:

- in occasions requiring a faster response than the above table (e.g. press publication of Vulnerability in a Deliverable used by the Purchaser); and
- in the technical environment necessary to operate the Deliverables (e.g. operating system for a Software Deliverable).

## F.8 Damage Compensation/Penalties for Vulnerability fixes

In addition to the remedies as a consequence of a material breach as set out in section A.5 "Failure to comply with this ISA", the Purchaser may apply penalties as provided for in the Agreement and/or damage compensation to the Supplier.

### F.9 Security-related maintenance

During the contracted period of maintenance and/or warranty period, the Supplier shall provide Software and Hardware Deliverables and future releases with all security patches. The latter may be either applied or provided at the same time as a separate bundle.

During the life cycle of the Deliverable, the Supplier shall provide to the Purchaser security patches as and when they are released, respecting the Vulnerability Fix times defined in section F.4.

The Supplier shall provide information (e.g. CVE, CVSS score) to the Purchaser about the Vulnerabilities that have been fixed in patches.

## G PURCHASER DATA IN XAAS/CLOUD SERVICES

### G.1 Limitation of use of Purchaser data

The Supplier shall use Purchaser data transmitted, processed, generated and/or stored in the XaaS/Cloud Service only to provide the said Service.

### G.2 Segregation of Purchaser data

The Supplier shall enforce segregation of Purchaser data from data of other customers of the Supplier.

#### G.3 Purchaser confidential data

The supplier shall encrypt in transit and in storage all data that is classified by the Purchaser as confidential.

#### G.4 Supplier encryption mechanisms

In case the Purchaser uses an encryption mechanism provided by the Supplier to protect Purchaser data, the Supplier shall ensure that:

- such data shall be kept encrypted when stored and transmitted; and
- a strong authentication (e.g. two-factor authentication) is used for access to such data.

## G.5 Logging of Purchaser data access and use

The Supplier shall:

- log access to and usage of Purchaser data in the XaaS/Cloud Service, including by its employees and any appointed third parties; and
- retain such logs for the duration agreed in the NPA and/or Order including associated documents
   (e.g. Non-Disclosure Agreement or Data Processing Agreement) or 6 months by default.

Extracts of retained logs shall be provided to the Purchaser on request.

### G.6 Purchaser Data reversibility

Upon termination of the NPA and/or Order, the Supplier shall make available to Purchaser for retrieval all Purchaser data in the XaaS/Cloud Service in a format and for a period of time mutually agreed beforehand with the Purchaser.

As per section **Error! Reference source not found.**, only encrypted connections shall be used for Purchaser retrieval of data unless exception agreed in writing by Purchaser.

At the end of the data reversibility period, the Supplier shall destroy all Purchaser environments and Purchaser data in the XaaS/Cloud Service in a manner designed to ensure that they cannot be accessed or read.

The Supplier shall provide the Purchaser with a certification of destruction.

### H ACCESS CONTROL OF XAAS/CLOUD SERVICES

## H.1 Physical security

The Supplier shall provide physically secured facilities for both production cloud infrastructure and locations for remote operations.

Controls shall include at least:

- physical access requires authorization and is monitored;
- everyone must visibly wear official identification while onsite;
- visitors must sign a visitor's register and be escorted and/or observed when on the premises; and
- possession of keys/access cards and the ability to access the locations is monitored. Staff leaving Supplier employment must return keys/cards.

#### H.2 System access control and password management

The Supplier shall control the Service systems by restricting access to only authorized personnel.

The Supplier shall enforce password policies on infrastructure components and cloud management systems used to operate the Supplier Service environment. The Supplier shall protect passwords using secure mechanisms such as digital vault.

The Supplier shall implement system access control, and accounting designed to ensure that only approved operations and support employees have access to the systems. System access control shall include system authentication, authorization, access approval, provisioning, and revocation for employees and any other Supplier-defined 'users'.

### H.3 Review of access rights

Network and operating system accounts for Supplier employees shall be reviewed regularly to ensure appropriate employee access levels.

In the event of Supplier employee's leaving the contractual project, the Supplier shall take prompt actions to terminate network, telephony, and physical access for such former employees.

### H.4 Security Gateway

The Supplier shall utilize security gateways (e.g. firewalls, routers, proxies, reverse proxies) to control access between the internet and Supplier Services by allowing only authorized traffic.

Supplier managed security gateways shall be deployed to perform packet inspection with security policies configured to filter packets based on protocol, port, source, and destination IP address, as appropriate, in order to identify authorized sources, destinations, and traffic types.

#### H.5 Anti-malware controls

The Supplier shall employ anti-malware software to scan uploaded files. Malware definitions shall be updated at least daily.

### H.6 Encryption and remote connections to XaaS/Cloud Services

For Purchaser access to and use of a XaaS/Cloud Service, only encrypted connections must be used unless exception agreed in writing by Purchaser.

The Supplier shall ensure that only authenticated and encrypted connections are used for Third Parties acting on behalf of the Supplier accessing remotely Purchaser data processed and/or stored in a XaaS/Cloud Service.

In all cases, the latest available browsers must be supported for connecting to Xaas/Cloud Services.

## I OPERATIONS OF XAAS/CLOUD SERVICES

#### I.1 Penetration tests

The Supplier shall assess the security of the XaaS/Cloud Service using penetration tests at least on a yearly basis. The report and mitigation plan of such tests shall be shared with the Purchaser.

Notwithstanding the above, the Supplier shall allow the Purchaser to make penetration tests on its production environment.

#### 1.2 Production data and environments

The Supplier shall not use production data for testing activities.

The Supplier shall separate development, testing and production environments (e.g. networks, data, applications, etc.).

### I.3 Disaster recovery plan

The Supplier shall set up and maintain a disaster recovery plan and ensure that it is tested at regular intervals.

Backups will be securely deleted by the Supplier upon disposal.

### I.4 Security-related maintenance

For any security patch that the Supplier intends to deploy on the Xaas/Cloud Service, the Supplier shall apply and test the security patch on a testing environment. Only after successful completion of testing on such environment, the Supplier will deploy the patch on the production environment.

## I.5 Third Party services

The Supplier shall inform the Purchaser if Third Party services (e.g. data center services) are involved or planned to be involved in the provision of the Service.

### J ACCESS TO AND USE OF PURCHASER SYSTEMS AND RESOURCES

This section will be applicable only if the Purchaser grants the Supplier access to and use of Purchaser systems for the performance of the Agreement.

### J.1 Physical

If Purchaser provides access and/or interconnection equipment installed on Supplier premises, the Supplier shall ensure that:

- physical access control is applied to the technical area where such equipment is located; and
- physical access to such equipment is limited to those who need to access the equipment for the performance of the Agreement and duly authorised by the Supplier.

## J.2 Purchaser Systems

The Supplier shall:

- access and use Purchaser's systems only to provide the Deliverables;
- ensure that access and data transfer are not used to perform an attack (e.g. for data transfer, check for malware);

- comply with the means of access and rules defined by the Purchaser and provided to the Supplier beforehand (e.g. respect network addresses assigned by Purchaser, respect Purchaser responsive times for Purchaser management Resources, ...);
- ensure that anybody acting on behalf of the Supplier who needs to use the Purchaser systems is duly authorised by the Supplier and identification information has been provided to the Purchaser; and
- ensure that only duly authorised Supplier Resources are connected with the Purchaser systems.

## J.3 Supplier Resources

If Supplier Resources are used to access and/or interconnect with Purchaser systems, the Supplier shall:

- follow security best practices on management of such Resources (e.g. keep such Resources up-to-date with the latest security patches such as anti-malware software and operating systems patches and installed software, configure restricted privileges for users, configure restricted execution rights on removable media, implement mechanisms for session-locking on such Resources after a short period of inactivity, ...);
- ensure the Resources (including authentication tokens, mobile devices and the phone numbers associated) are dedicated to the Supplier and only used by its employees and any Third Parties appointed to provide the Deliverables);
- implement network access control on the Supplier Resources used for the performance of Services;
- implement a strong authentication system (e.g. two-factor authentication) for access to such
   Resources; and ensure traceability of usage of such Resources by all users;
- retain logs for the duration agreed in NPA and/ or Order including associated documents (e.g. Non-Disclosure Agreement or Data Processing Agreement) or 6 months by default; and
- provide to Purchaser upon request extracts of retained logs.

If the Purchaser provides accounts to the Supplier, the Supplier shall:

- ensure traceability of account attribution and use;
- retain traces for the duration agreed in NPA and/ or Order including associated documents (e.g. Non-Disclosure Agreement or Data Processing Agreement) or 6 months by default; and
- provide to Purchaser upon request extracts of retained traces.

## J.4 Purchaser systems and applications

If the Purchaser provides accounts to the Supplier, the Supplier shall:

- promptly notify the Purchaser when an account is no longer required; and
- ensure that accounts provided for server communications are used only for that purpose.

### J.5 Management of Purchaser Resources

If the Purchaser provides physical Resources (software, hardware, computers, USB stick, badge, tablet, smartphone, access or interconnection equipment...) to the Supplier, the Supplier shall keep track of such Resources. Upon termination of the Agreement, the Supplier shall return Purchaser Resources still in its possession.

#### K PROFESSIONALS AND SECURITY

### K.1 Awareness training and education

The Supplier shall ensure that its employees and any Third Parties appointed to provide the Deliverables:

- possess appropriate security skills (e.g. to manage security incidents); and
- are familiar with the content and the implementation of applicable security rules.

## K.2 Purchaser specific security rules

If the Purchaser provides specific security rules for performing the Professional Services, the Supplier shall ensure that its employees and any appointed Third Parties are informed of such rules before the start of any tasks.

### K.3 Subcontractors

Where the Supplier uses subcontractors to fulfil the Agreement with the Purchaser, the Supplier shall specifically identify them as subcontractors and ensure that the same due care will always be applied.

## K.4 Handling of sensitive Deliverables

Upon request of the Purchaser, the Supplier shall commit to use only security checked personnel, i.e. screened by national authorities, for handling of sensitive Deliverables prior to deployment in the Purchaser's Network, as well as for maintenance of sensitive Deliverables during the whole operational phase.

#### **DEFINITIONS AND ABBREVIATIONS**

Agreement	means the contract signed by the Purchaser with the Supplier and containing the reference to this ISA or General Purchase Terms of company Orange in case there is no written contract		
	between the Supplier and the company Orange.		
Assets	encompass primary and supporting assets as defined in ISO/IEC 27005.		
Back Door	means a feature or defect of Deliverables that allows surreptitious unauthorized access		
	data.		
CVE	means Common Vulnerabilities and Exposures as defined in:		
	http://cve.mitre.org/index.html.		
CVSS	means Common Vulnerability Scoring System as defined in <a href="http://www.first.org/cvss/">http://www.first.org/cvss/</a> .		
Defect	means any deviation of the actual quality of the Deliverable from the contractually intended		
	quality, e.g. default, non-compliance of the Deliverables with their corresponding		
	specification or their failure to perform in accordance with related documentation.		
<b>Deliverables</b> mean any equipment, HW, SW, product and/or service ordered on the r			
	including all main- and ancillary obligations.		
Information Security	means – in compliance with ISO/IEC 27001 and ISO/IEC 27005 - security in the scope of		
- 	information processing and activities (primary assets) relying on technical (including, but not		
	limited to IT, premises, facilities, networks) and non-technical resources (including, but not		
	limited to supporting assets such as staff, partners, organizations, procedures, terms and		
	conditions).		
Internet of Things	means any connected devices or equipment for internet of things		
Official Fix	means that a complete Supplier solution is available to fix a Vulnerability, either by means		
	of an official patch or an upgrade.		
Order	means a purchase order issued by the Purchaser.		
Purchaser	means Orange Slovensko, a.s.		
Purchaser Network	means the network managed by the Purchaser and all related Purchaser Network access		
	infrastructures necessary to ensure the communications between each party Resources.		
Purchaser Resources means hardware, software, services belonging to the Purchaser and used fo			
	providing the Deliverables.		
Software Result	means any software that is:		
	(i) primarily based on and/or directed to the Purchaser's Requirements and/or		
	Specifications provided by or exclusively for Purchaser, and/ or		

(ii) developed or implemented by Supplier under this Agreement (and/or any		
subsequent amendments) and/or any TSA and/or NPA and/or any Order, and which		
is not a background;		
which may or may not be protected by intellectual property rights, as well as any product or		
process resulting from it.		
means an exhibit of Agreement with detailed technical security requirements on		
Deliverables.		
means a document defining project-specific activities, deliverables and timelines for the		
Supplier providing Deliverables and/ or Services to the Purchaser.		
means hardware, software belonging to and/or under liability of Supplier and used for the		
purpose of providing the Deliverables.		
means that there is an official but temporary fix available to fix a Vulnerability, including –		
but not limited to – temporary hotfixes, tools or workarounds.		
means a weakness that reduces availability, integrity or confidentiality.		
means anything delivered to users as a service including SaaS (Software as a Service), PaaS		
(Platform as a Service), IaaS (Infrastructure as a Service) or similar.		
means an undisclosed vulnerability that hackers can exploit to adversely affect Deliverables.		
It is known as a "zero-day" (or "zero-hour" or "0-day" or "day zero") because it is not publicly		
reported or announced before becoming active, leaving the Supplier with zero days in which		
to create patches or advise workarounds to mitigate its actions.		

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