



**ANNEX A - PRODUCT QUESTIONNAIRE**  
**A-1 CRYPTOGRAPHY**  
*(Based on SGC0 2025)*

**SECTION A BASIC PRODUCT INFORMATION**

(1) Name of the Manufacturer:

(2) Brand:

(3) Model No. / Part No.:

**SECTION B CRYPTOGRAPHY NOTE**

(4) Is the item available and sold from stock at 'retail selling points' 'without restriction', to the 'general public' through any of the following means?

*('Retail selling points' are places where the cryptographic item is readily available for sale and that any person can order with reference to available catalogues and advertisements. (e.g. computer shops that are easily accessible by buyers, sales via mail order, telephone, fax or online transactions)*

*'Without restriction' means that any person may acquire the products by paying the standard price to the seller without being subject to any additional conditions, other than those normally arising from copyright (e.g. conditions imposed in a software licence). The price and information about the main functionality of the item are available before purchase without the need to consult the vendor or supplier. A simple price enquiry is not considered to be a consultation.*

*Being available and sold from stock to the 'general public' means that the item is of potential interest to a wide range of individuals and businesses.)*

(a) Over-the-counter transactions

Yes       No

If 'Yes', please provide contact details of seller:

(b) Mail order transactions

Yes       No

If 'Yes', please provide contact details of seller:

(c) Electronic transactions

Yes       No

If 'Yes', please provide contact details of seller:

(d) Telephone call transactions

Yes       No

If 'Yes', please provide contact details of seller:

(5) Can the user easily change the cryptographic functionality of the item from what is specified in the manufacturer's specification?

*(i.e. the cryptographic functionality in the product can only be used according to the manufacturer's specification. Specific function such as user selection on the key length, etc., is not considered as "easily change".)*

Yes  No

If 'Yes', please provide details:

(6) Is the item designed for installation by the user without further substantial support by the supplier?

*(This does not include nominal installation support such as telephone or e-mail help-lines to resolve user problems.)*

Yes  No

If 'No', please provide details:

(7) Is the item a hardware component or 'executable software' designed for a higher assembly?

*('Executable software' means software in executable form, from an existing hardware component. It does not include complete binary images of the software running on an end-item.)*

Yes  No

If 'Yes', please state the following:

(a) Provide details of the higher assembly and submit the relevant product information (product brochure / technical specification):

(b) Is the higher assembly available and sold from stock at 'retail selling points' 'without restriction', to the general public through any of the following means?

(i) Over-the-counter transactions

Yes  No

If 'Yes', please provide contact details of seller:

(ii) Mail order transactions

Yes  No

If 'Yes', please provide contact details of seller:

(iii) Electronic transactions

Yes  No

If 'Yes', please provide contact details of seller:

(iv) Telephone call transactions

Yes  No

If 'Yes', please provide contact details of seller:

(c) Can the user easily change the cryptographic functionality of the higher assembly from what is specified in the manufacturer's specification?

*(i.e. the cryptographic functionality in the product can only be used according to the manufacturer's specification. Specific function such as user selection on the key length, etc., is not considered as "easily change".)*

Yes  No

If 'Yes', please provide details:

(d) Is the higher assembly designed for installation by the user without further substantial support by the supplier? *(This does not include nominal installation support such as telephone or e-mail help-lines to resolve user problems.)*

Yes  No

If 'No', please provide details:

(e) Does the hardware component or 'executable software' change any cryptographic functionality of the higher assembly, or add new cryptographic functionality to the higher assembly?

Yes  No

(f) Is the feature set of the hardware component or 'executable software' fixed and not designed or modified to the customer's specification?

Yes  No

## SECTION C FUNCTIONALITY OF PRODUCT

***If any of your answers to (8) to (28) are 'Yes', please provide the relevant details and supporting information.***

(8) Is it an item having "information security" as a primary function?

*("Information security" means all the means and functions ensuring the accessibility, confidentiality or integrity of information or communications, excluding the means and functions intended to safeguard against malfunctions. It includes "cryptography", "cryptographic activation", 'cryptanalysis', protection against compromising emanations and computer security.*

*"Cryptography" means the discipline which embodies principles, means and methods for the transformation of data in order to hide its information content, prevent its undetected modification or prevent its unauthorised use.*

*"Cryptographic activation" means any technique that activates or enables cryptographic capability of an item, by means of a secure mechanism implemented by the manufacturer of the item, where this mechanism is uniquely bound to either a single instance of the item or one customer, for multiple instances of the item.*

*'Cryptanalysis' means analysis of a cryptographic system or its inputs and outputs to derive confidential variables or sensitive data, including clear text.)*

Yes  No

(9) Is it a digital communication or networking system, equipment or component?

Yes

No

(10) Is it a computer, or item having information storage or processing as a primary function, or its component thereof?

Yes

No

(11) Is it an item where the cryptographic functionality supports a non-primary function of the item?

Yes

No

(12) Is it an item where the cryptographic functionality is performed by incorporated equipment or "software" that would, as a standalone item, be specified in Category 5, Part 2?

*("software" means a collection of one or more 'programs' or 'microprograms' recorded, stored or embodied in any device;*

*'Program' means a sequence of instructions to carry out a process in, or convertible into, a form executable by an electronic computer.*

*'Microprogram' means a sequence of elementary instructions maintained in a special storage, the execution of which is initiated by the introduction of its reference instruction into an instruction register.)*

Yes

No

(13) Is it a smart card or an electronically readable personal document (e.g. token coin, e-passport)?

Yes

No

If 'Yes', please state the following:

(a) Is the cryptographic capability restricted for use in equipment or systems that are not stated in (8) to (11)?

Yes

No

(b) Is the cryptographic capability restricted for use in equipment or systems not using 'cryptography for data confidentiality'?

*('Cryptography for data confidentiality' means "cryptography" that employs digital techniques and performs any cryptographic function other than any of the following:*

*(i) "Authentication";*

*(ii) Digital signature;*

*(iii) Data integrity;*

*(iv) Non-repudiation;*

*(v) Digital rights management, including the execution of copy-protected software;*

*(vi) Encryption or decryption in support of entertainment, mass commercial broadcasts or medical records management;*

*(vii) Wireless "personal area network" functionality implementing only published or commercial cryptographic standards*

*(viii) Cryptographic operations specially designed for and limited to banking use or money transactions, including the collection and settlement of fares or credit functions;*

*(ix) Key management in support of any function described in paragraphs (i) to (viii) above; or*

*(x) Cryptographic functions or capabilities that have not been activated or enabled, and can only be activated or enabled by means of secure "cryptographic activation".*

*"Authentication" means verifying the identity of a user, process or device, often as a prerequisite to allowing access to resources in an information system. This includes verifying the origin or content of a message or other information, and all aspects of access control where there is no encryption of files or text except as directly related to the protection of passwords, Personal Identification Numbers (PINs) or similar data to prevent unauthorised access.)*

Yes

No

(c) Can it be reprogrammed for any other use?

Yes  No

(d) Has the application been, or can only be, personalised for public or commercial transactions or individual identification where the cryptography for data confidentiality having a described security algorithm and it is specially designed and limited to allow protection of 'personal data' stored within?

*('Personal data' includes any data specific to a particular person or entity, such as the amount of money stored and data necessary for "authentication".)*

Yes  No

(14) Is it a 'reader/writer'?

*('Readers/writers' include equipment that communicates with smart cards or electronically readable documents through a network.)*

Yes  No

(15) Is it a portable or mobile radiotelephones for civil use (e.g. for use with commercial civil cellular radio communication systems) that are not capable of transmitting encrypted data directly to another radiotelephone or equipment (other than Radio Access Network (RAN) equipment), nor of passing encrypted data through RAN equipment (e.g. Radio Network Controller (RNC) or Base Station Controller (BSC))?

Yes  No

(16) Is it a cordless telephone equipment not capable of end-to-end encryption where the maximum effective range of unboosted cordless operation (i.e. a single, unrelayed hop between terminal and home base station) is less than 400 m according to the manufacturer's specifications?

Yes  No

(17) Is it a portable or mobile radiotelephones and similar client wireless device for civil use, that implements only published or commercial cryptographic standards (except for anti-piracy functions, which may be non-published) and also meet the provisions stated in (5) and (6), that have been customised for a specific civil industry application with features that do not affect the cryptographic functionality of these original non-customised devices?

Yes  No

(18) Is it a mobile telecommunications Radio Access Network (RAN) equipment designed for civil use, and also meet the provisions stated in (5) and (6), having an RF output power limited to 0.1 W (20 dBm) or less, and supporting 32 or fewer concurrent users?

Yes  No

(19) Is it a router, switch, gateway or relay, where the 'cryptography for data confidentiality having a described security algorithm' is limited to the tasks of "Operations, Administration or Maintenance" ("OAM") implementing only published or commercial cryptographic standards?

*("OAM" means performing one or more of the following tasks:*

*a. Establishing or managing any of the following:*

- 1. Accounts or privileges of users or administrators;*
- 2. Settings of an item; or*
- 3. Authentication data in support of the tasks described in paragraphs a.1. or a.2.;*

*b. Monitoring or managing the operating condition or performance of an item; or*

*c. Managing logs or audit data in support of any of the tasks described in paragraphs a. or b.*

"OAM" does not include either of the following tasks or their associated key management functions:

- a. Provisioning or upgrading any cryptographic functionality that is not directly related to establishing or managing authentication data in support of the tasks described in paragraphs a.1. or a.2. above; or
- b. Performing any cryptographic functionality on the forwarding or data plane of an item.)

Yes  No

(20) Is it a general purpose computing equipment or server?

Yes  No

If 'Yes', please state the following:

(a) Does the 'cryptology for data confidentiality having a described security algorithm' implement only published or commercial cryptographic standards?

Yes  No

(b) Is the "information security" functionality integral to a Central Processing Unit (CPU)?

Yes  No

If 'Yes', please state the following:

(i) Is the CPU available and sold from stock at 'retail selling points' 'without restriction', to the 'general public' through any of the following means?

(a) Over-the-counter transactions

Yes  No

If 'Yes', please provide contact details of seller:

(b) Mail order transactions

Yes  No

If 'Yes', please provide contact details of seller:

(c) Electronic transactions

Yes  No

If 'Yes', please provide contact details of seller:

(d) Telephone call transactions

Yes  No

If 'Yes', please provide contact details of seller:

(ii) Can the user easily change the cryptographic functionality of the CPU from what is specified in the manufacturer's specification?

*(i.e. the cryptographic functionality in the product can only be used according to the manufacturer specification. Specific function such as user selection on the key length, etc., is not considered as "easily change".)*

Yes                       No

If 'Yes', please provide details:

(iii) Is the CPU designed for installation by the user without further substantial support by the supplier?

*(This does not include nominal installation support, such as telephone or e-mail help-lines to resolve user problems.)*

Yes                       No

If 'Yes', please provide details:

(c) Is the "information security" functionality integral to an operating system?

Yes                       No

If 'Yes', please state the following:

(i) Is the operating system specially designed or modified for the "development", "production" or "use" of an "information security" equipment?

*("development", in relation to any goods, means any stage prior to the serial production of the goods, including design, design research, design analysis, development of a design concept, assembly and testing of a prototype, pilot production, generation of design data, the process of transforming design data into a product, configuration design, integration design, and layout;*

*"production", in relation to any goods, means any stage of production of the goods, including construction, production engineering, manufacture, integration, assembly, mounting, inspection, testing, and quality assurance;*

*"use", in relation to any goods, means the operation, installation, maintenance, inspection, repair, overhaul or refurbishing of the goods.)*

Yes                       No

(ii) Is the operating system having the characteristics of a cryptographic activation token stated in (22)?

Yes                       No

(d) Is the "information security" functionality limited to "OAM" of the equipment?

Yes                       No

(21) Is it specially designed for a 'connected civil industry application'?

*('connected civil industry application' means a network connected consumer or civil industry application other than "information security", digital communication, general purpose networking or computing.)*

Yes     No

If 'Yes', please state the following:

- (a) Is it a network-capable endpoint device where the 'cryptology for data confidentiality having a described security algorithm' is limited to securing 'non-arbitrary data' or the tasks of "OAM"?

*('Non-arbitrary data' means sensor or metering data directly related to the stability, performance or physical measurement of a system (e.g. temperature, pressure, flow rate, mass, volume, voltage, physical location, etc.), that cannot be changed by the user of the device.)*

Yes  No

- (b) Is it a network-capable endpoint device limited to a specific 'connected civil industry application'?

Yes  No

- (c) Is it a networking equipment specially designed to communicate with the devices stated in (21) (a) and (21) (b)?

Yes  No

- (d) Is it a networking equipment where the 'cryptology for data confidentiality having a described security algorithm' is limited to supporting the 'connected civil industry application' of devices stated in (21) (a) and (21) (b), or the tasks of "OAM" of this networking equipment or of other items stated in (21)?

Yes  No

- (e) Is the item's where the 'cryptology for data confidentiality having a described security algorithm' implements only published or commercial cryptographic standards, and the cryptographic functionality cannot easily be changed by the user?

Yes  No

- (22) Is it a cryptographic activation token designed or modified to enable, by means of "cryptographic activation":

- (a) For converting, an item not specified in Category 5, Part 2 "Information Security" into an item stated in (29) or (30) or into "software" having the characteristics of, or performing or simulating the functions of (23), (24) and (25)?

Yes  No

- (b) For enabling, additional functionality stated in (32) or (33) of an item already specified in Category 5, Part 2 "Information Security"?

Yes  No

- (23) Is it designed or modified to use or perform "quantum cryptography"?

*("Quantum cryptography" means a family of techniques for the establishment of shared key for "cryptology" by measuring the quantum-mechanical properties of a physical system (including those physical properties explicitly governed by quantum optics, quantum field theory or quantum electrodynamics).*

*"Quantum cryptography" is also known as Quantum Key Distribution (QKD).*

Yes  No

- (24) Is it designed or modified to use cryptographic techniques to generate channelising codes, scrambling codes or network identification codes, for systems using ultra-wideband modulation techniques and having either a bandwidth exceeding 500 MHz or a "fractional bandwidth" of 20% or more?

*("Fractional bandwidth" means the "instantaneous bandwidth" divided by the centre frequency, expressed as a percentage.*

*“Instantaneous bandwidth” means the bandwidth over which output power remains constant within 3 dB without adjustment of other operating parameters.)*

Yes

No

(25) Is it designed or modified to use cryptographic techniques to generate the spreading code for “spread spectrum” systems, other than those stated in (26) including the hopping code for “frequency hopping” systems?

*“Spread spectrum” means the technique whereby energy in a relatively narrow-band communication channel is spread over a much wider energy spectrum.*

*“Frequency hopping” means a form of “spread spectrum” in which the transmission frequency of a single communication channel is made to change by a random or pseudo-random sequence of discrete steps.)*

Yes

No

(26) Is it a communications cable system designed or modified using mechanical, electrical or electronic means to detect surreptitious intrusion?

*(Communications cable system only includes physical layer security where the physical layer includes Layer 1 of the Reference Model of Open Systems Interconnection (OSI) (Ref. ISO/IEC 7498-1).)*

Yes

No

(27) Is it specially designed or modified to reduce the compromising emanations of information-bearing signals beyond what is necessary for health, safety or electromagnetic interference standards?

Yes

No

(28) Is it designed or modified to perform ‘cryptanalytic functions’?

*(This includes systems or equipment, designed or modified to perform ‘cryptanalytic functions’ by means of reverse engineering.*

*‘Cryptanalytic functions’ are functions designed to defeat cryptographic mechanisms in order to derive confidential variables or sensitive data, including clear text, passwords or cryptographic keys.)*

Yes

No

(29) Is it a system, equipment, or its component therefor, specially designed or modified for the generation, command and control, or delivery of “intrusion software”?

*“intrusion software” means “software” specially designed or modified to avoid detection by ‘monitoring tools’, or to defeat ‘protective countermeasures’, of a computer or network-capable device, and performing either of the following:*

a. *The extraction of data or information, from a computer or network-capable device, or the modification of system or user data;*  
*or*

b. *The modification of the standard execution path of a program or process in order to allow the execution of externally provided instructions.*

*“Intrusion software” does not include any of the following:*

a. *Hypervisors, debuggers or Software Reverse Engineering (SRE) tools;*

b. *Digital Rights Management (DRM) “software”; or*

c. *“Software” designed to be installed by manufacturers, administrators or users, for the purpose of asset tracking or recovery.*

*Network-capable devices include mobile devices and smart meters.*

*‘Monitoring tools’ means “software” or hardware devices, that monitor system behaviours or processes running on a device. This includes antivirus (AV) products, end point security products, Personal Security Products (PSP), Intrusion Detection Systems (IDS), Intrusion Prevention Systems (IPS) or firewalls.*

*‘Protective countermeasures’ means techniques designed to ensure the safe execution of code, such as Data Execution Prevention (DEP), Address Space Layout Randomisation (ASLR) or sandboxing.)*

Yes

No

(30) Is it designed to perform the following?

(a) 'Extract raw data' from a computing or communications device

*('Extract raw data' from a computing or communications device means to retrieve binary data from a storage medium (e.g. RAM, flash or hard disk) of the device without interpretation by the device's operating system or filesystem.)*

Yes  No

(b) Circumvent "authentication" or authorisation controls of the device, in order to perform the function described in (33) (a)

Yes  No

(31) Is it a system or equipment specially designed for the "development" or "production" of a computing or communications device?

Yes  No

(32) Is it any of the following:

(a) Debuggers, hypervisors

Yes  No

(b) Items limited to logical data extraction

Yes  No

(c) Data extraction items using chip-off or JTAG

Yes  No

(d) Items specially designed and limited to jail-breaking or rooting.

Yes  No

## SECTION D TECHNICAL QUESTIONS

***If your answers to any of the following is 'Yes', please provide the relevant details and supporting information.***

Does the item contain the following cryptographic functions?

(33) A "symmetric algorithm" employing a key length in excess of 56 bits, not including parity bits?

*("Symmetric algorithm" means a cryptographic algorithm using an identical key for both encryption and decryption.)*

Yes  No

If 'Yes', please state the following:

(a) Full name:

(b) Key length:            bits

(c) Is it used for any of the following?

(i) "Authentication"

Yes  No

(ii) Digital signature

Yes  No

(iii) Data integrity

Yes  No

(iv) Non-repudiation

Yes  No

(v) Digital rights management, including the execution of copy-protected software

Yes  No

(vi) Encryption or decryption in support of entertainment, mass commercial broadcasts or medical records management

Yes  No

(vii) Wireless "personal area network" functionality implementing only published or commercial cryptographic standards

Yes  No

(viii) Cryptographic operations specially designed for and limited to banking use or money transactions, including the collection and settlement of fares or credit functions

Yes  No

(ix) Key management in support of any function in (33) (c) (i) to (viii)

Yes  No

(x) Cryptographic functions or capabilities that have not been activated or enabled, and can only be activated or enabled by means of secure "cryptographic activation".

Yes  No

(d) Is it used for encryption or decryption other than the cryptographic functions in (36) (c)?

Yes  No

If 'Yes', please specify what is being encrypted/decrypted:

Files  Text  Communication

Others, please specify:

(34) An "asymmetric algorithm" where the security of the algorithm is based on any of the following:

*("Asymmetric algorithm" means a cryptographic algorithm using different, mathematically-related keys for encryption and decryption.*

*An algorithm described by 34 (c), (d) and (e) below may be referred to as being post-quantum, quantum-safe or quantum-resistant.)*

(a) Factorisation of integers in excess of 512 bits (e.g. RSA)

Yes  No

(b) Computation of discrete logarithms in a multiplicative group of a finite field of size greater than 512 bits (e.g. Diffie-Hellman over  $Z/pZ$ )

Yes  No

(c) Shortest vector or closest vector problems associated with lattices (e.g. NewHope, Frodo, NTRUEncrypt, Kyber, Titanium)

Yes  No

(d) Finding isogenies between Supersingular elliptic curves (e.g. Supersingular Isogeny Key Encapsulation)

Yes  No

(e) Decoding random codes (e.g. McEliece, Niederreiter)

Yes             No

(f) Other public key primitives in excess of 112 bits (e.g. Diffie-Hellman over an elliptic curve)

Yes             No

If 'Yes' to any of the above, please state the following:

(i) Describe briefly the primitives used:

(ii) Full name:

(iii) Key length:            bits

(iv) Is it used for any of the following?

(a) "Authentication"

Yes             No

(b) Digital signature

Yes             No

(c) Data integrity

Yes             No

(d) Non-repudiation

Yes             No

(e) Digital rights management, including the execution of copy-protected software

Yes             No

(f) Encryption or decryption in support of entertainment, mass commercial broadcasts or medical records management

Yes             No

(g) Wireless "personal area network" functionality implementing only published or commercial cryptographic standards

Yes             No

(h) Cryptographic operations specially designed for and limited to banking use or money transactions, including the collection and settlement of fares or credit functions

Yes             No

(i) Key management in support of any function in (34)(f)(iv)(a) to (h)

Yes             No

(j) Cryptographic functions or capabilities that have not been activated or enabled, and can only be activated or enabled by means of secure “cryptographic activation”

Yes             No

(v) Is it used for encryption or decryption other than the cryptographic functions in (34)(f)(iv)?

Yes             No

If ‘Yes’, please specify what is being encrypted/decrypted:

Files             Text             Communication

Others, please specify:

(35) Are the cryptographic algorithms implemented in hardware (ASIC/ ASSP/ gate array) or software (microprocessor/ DSP code)?