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ANNEX A - PRODUCT QUESTIONNAIRE A-1 CRYPTOGRAPHY

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 (29) are 'Yes', please provide the relevant details and supporting information.

(8) Is the cryptographic capability usable without "cryptographic activation" or has been activated?

("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 a single instance of the item or one customer, for multiple instances of the item.)

Yes No

(9) 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

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

Yes No

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

Yes No

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

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 described in (9) to (12) of this Section?

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; or

(vii) Key management in support of any function described in paragraphs (i) to (vi) above.

"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 cryptographic capability is not user-accessible 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' specially designed or modified, and limited, for items fulfilling (13) (a) to (13) (c), or (13) (d)?

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

Yes No

(15) Is it a cryptographic equipment specially designed and limited to banking use or 'money transactions'?

('Money transactions' include the collection and settlement of fares or credit functions.)

Yes No

(16) 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

(17) 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 metres according to the manufacturer's specifications?

Yes No

(18) 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

(19) Is the “information security” functionality limited to wireless “personal area network” functionality that implement only published or commercial cryptographic standards and where the cryptographic capability is limited to a nominal operating range not exceeding 30 metres according to the manufacturer’s specifications, or not exceeding 100 metres according to the manufacturer’s specifications for equipment that cannot interconnect with more than seven devices?

(“Personal area network” means a data communication system having both of the following characteristics:

- a. Allows an arbitrary number of independent or interconnected ‘data devices’ to communicate directly with each other; and*
- b. Is confined to the communication between devices within the immediate vicinity of an individual person or device controller (e.g. single room, office or automobile and their nearby surrounding spaces).*

‘Data devices’ means equipment capable of transmitting or receiving sequences of digital information.)

Yes

No

(20) 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 16 or fewer concurrent users?

Yes

No

(21) Is it a router, switch or relay, where the “information security” functionality 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

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

Yes

No

If ‘Yes’, please state the following:

(a) Does the “information security” functionality use 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 specially designed or modified to enable, by means of “cryptographic activation”, an item to meet the criteria for functionality stated in (30) and (31) that would not otherwise be met?

Yes No

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

Yes No

(23) Is it designed or modified to enable, by means of “cryptographic activation” an item to achieve or exceed the controlled performance levels for functionality stated in (30) or (31) that would not otherwise be enabled?

Yes No

(24) 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 “cryptography” 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

(25) 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

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

(27) 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

(28) 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

(29) 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

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?

(30) 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) Key management in support of any of the cryptographic functions in (30) (c) (i) to (vi)

Yes

No

(d) Is it used for encryption or decryption other than the cryptographic functions in (30) (c)?

Yes

No

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

Files

Text

Communication

Others, please specify:

(31) 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.)

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

Yes No

If ‘Yes’, please state the following:

(i) Full name:

(ii) Key length:

bits

(iii) 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) Key management in support of any of the cryptographic functions in (31) (a) (iii) (a) to (f)

Yes No

(iv) Is it used for encryption or decryption other than the cryptographic functions in (31) (a) (iii)?

Yes No

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

Files Text Communication

Others, please specify:

(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

If ‘Yes’, please state the following:

(i) Full name:

(ii) Key length:

bits

(iii) 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) Key management in support of any of the cryptographic functions in (31) (b) (iii) (a) to (f)

Yes No

(iv) Is it used for encryption or decryption other than the cryptographic functions in (31) (b) (iii)?

Yes No

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

Files Text Communication

Others, please specify:

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

Yes No

If 'Yes', 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
- (i) 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) Key management in support of any of the cryptographic functions in (31) (c) (iv) (a) to (f)
 Yes No
- (v) Is it used for encryption or decryption other than the cryptographic functions in (31) (c) (iv)?
 Yes No

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

- Files Text Communication
 Others, please specify:

(32) Does the item contain special mechanisms to detect tampering or intrusion?

- Yes No

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

SECTION E DECLARATION

I declare that all the information provided is true and correct to the best of my knowledge.

(34) Name:	(35) Designation:
(36) Contact No.:	(37) Email:
(38) Signature:	(39) Date (dd/mm/yyyy):