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Email: customs_classification@customs.gov.sg Form reference: SC-A-064A (Ver 10 – 11/20)

ANNEX A - PRODUCT QUESTIONNAIRE A-1 CRYPTOGRAPHY (Based on SGCO 2020)

Clear Form

SEC	CTIC	ON A BASIC P	RODUCT INFORMATION			
(1)	Nar	me of the Manufac	turer:			
(2)	Bra	ınd:				
(3)	Мо	del No. / Part No.:				
SEC	CTIC	ON B CRYPTO	GRAPHY NOTE			
(4)		he item available a	and sold from stock at 'retail selling po eans?	ints'	'without restriction	', to the 'general public' through
	refe		re places where the cryptographic item is atalogues and advertisements. (e.g. compuonline transactions)			
	sub _. lice	ject to any additiona nce). The price and	ans that any person may acquire the prod al conditions, other than those normally a information about the main functionality o pplier. A simple price enquiry is not consid	risino f the	g from copyright (e.g item are available b	. conditions imposed in a software
		ng available and sold I businesses.)	from stock to the 'general public' means th	at th	e item is of potential ir	nterest to a wide range of individuals
	(a)	Over-the-counter	transactions	(b)	Mail order transact	tions
		Yes	□ No		☐ Yes	☐ No
		If 'Yes', please pro	ovide contact details of seller:		If 'Yes', please pro	vide contact details of seller:
	(c)	Electronic transac	ctions	(d)	Telephone call trai	nsactions
		Yes	☐ No		Yes	☐ No
		If 'Yes', please pro	ovide contact details of seller:		If 'Yes', please pro	vide 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?					
		the cryptographic functionality in the n as user selection on the key length				's specification. Specific function
		Yes	☐ No			
	lf 'Y	es', please provide details:				
(6)	ls th	ne item designed for installation l	by the user without further su	ubsta	antial support by th	e supplier?
	(Thi	s does not include nominal installation	on support such as telephone o	r e-m	nail help-lines to resc	olve user problems.)
		Yes	☐ No			
	If 'N	o', please provide details:				
(7)	ls th	ne item a hardware component o	or 'executable software' desid	ned	for a higher asser	nblv?
(,)		ecutable software' means software	_			
	bina	ry images of the software running o			·	·
		Yes	☐ No			
	If 'Y	es', please state the following:				
	(a)	Provide details of the <u>higher ass</u> specification):	sembly and submit the releva	nt p	roduct information	(product brochure / technical
		specification).				
	(b)	Is the <u>higher assembly</u> available public through any of the follow		ail s	elling points' 'witho	out restriction', to the general
		(i) Over-the-counter transaction	าร	(ii)	Mail order transac	ctions
		☐ Yes ☐ N	lo		Yes	☐ No
		If 'Yes', please provide conta seller:	act details of		If 'Yes', please preseller:	ovide contact details of
		(iii)Electronic transactions		(iv)	Telephone call tra	ansactions
		☐ Yes ☐ N	0	` ,	Yes	☐ No
		If 'Yes', please provide conta	act details of		If 'Yes', please preseller:	ovide contact details of

	(c)	Can the user easily char manufacturer's specifica	nge the cryptographic functionality of the $\underline{\text{higher assembly}}$ from what is specified in the tion?
			tionality in the product can only be used according to the manufacturer's specification. Specific tion on the key length, etc., is not considered as "easily change".)
		Yes	□ No
		If 'Yes', please provide d	etails:
	(d)		lesigned for installation by the user without further substantial support by the supplier? inal installation support such as telephone or e-mail help-lines to resolve user problems.) No etails:
	(e)		ponent or 'executable software' change any cryptographic functionality of the <u>higher</u> yptographic functionality to the <u>higher assembly</u> ?
		Yes	□ No
	(f)	customer's specification	
		Yes	No
SE/	°TIC		
		ON C FUNCTIONALIT	Y OF PRODUCT
		ON C FUNCTIONALIT	
If a	ny o	ON C FUNCTIONALIT of your answers to (8) to	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation"
If a	ls th not ("Cr	on C FUNCTIONALIT of your answers to (8) to the cryptographic capability employing a secure mechanism implemented	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation"
If a	Is the not ("Crisecular secular secula	on C FUNCTIONALIT of your answers to (8) to the cryptographic capability employing a secure mechanism implemented	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation" nanism? ns any technique that activates or enables cryptographic capability of an item, by means of a d by the manufacturer of the item, where this mechanism is uniquely bound to a single instance
(8)	Is the not ("Crisecular of the	on C FUNCTIONALIT of your answers to (8) to the cryptographic capability employing a secure mechanyptography activation" mean ture mechanism implemented the item or one customer, for Yes	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation" nanism? In sany technique that activates or enables cryptographic capability of an item, by means of a drivent by the manufacturer of the item, where this mechanism is uniquely bound to a single instance multiple instances of the item.) \[\sum \text{No} \]
(8)	Is the not of the list it	on C FUNCTIONALIT of your answers to (8) to the cryptographic capability employing a secure mechanism implemented the item or one customer, for Yes that an item having "information of the item of th	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation" nanism? In any technique that activates or enables cryptographic capability of an item, by means of a drivent by the manufacturer of the item, where this mechanism is uniquely bound to a single instance multiple instances of the item.) No No
(8)	Is the not ("Cr security of the last it ("Infocument to th	on C FUNCTIONALIT of your answers to (8) to the cryptographic capability employing a secure mechanism implemented the item or one customer, for Yes an item having "information security" means all the munications, excluding the	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation" nanism? In sany technique that activates or enables cryptographic capability of an item, by means of a drivent by the manufacturer of the item, where this mechanism is uniquely bound to a single instance multiple instances of the item.) \[\sum \text{No} \]
(8)	Is the not ("Crype" "Crype" "" "Crype" "Crype" "Crype" "Crype" "Crype" "Crype" "Crype" "Crype"	on c Functionality of your answers to (8) to the cryptographic capability employing a secure mechanism implemented the item or one customer, for Yes "An item having "information security" means all munications, excluding the prographic activation", 'cryptography' means the disciplination of the prography' means the disciplination of the prography of	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation" nanism? In any technique that activates or enables cryptographic capability of an item, by means of a drop by the manufacturer of the item, where this mechanism is uniquely bound to a single instance multiple instances of the item.) No In No In the means and functions ensuring the accessibility, confidentiality or integrity of information or means and functions intended to safeguard against malfunctions. It includes "cryptography",
(8)	Is the not ("Cryptists in "Cryptimeck")	on C FUNCTIONALIT of your answers to (8) to the cryptographic capability employing a secure mechanism implemented the item or one customer, for Yes an item having "information security" means all munications, excluding the totographic activation", 'crypte ptography" means the discip- information content, prevent it ptography activation" means	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation" nanism? In sany technique that activates or enables cryptographic capability of an item, by means of a drift by the manufacturer of the item, where this mechanism is uniquely bound to a single instance multiple instances of the item.) No On security" as a primary function? If the means and functions ensuring the accessibility, confidentiality or integrity of information or means and functions intended to safeguard against malfunctions. It includes "cryptography", analysis', protection against compromising emanations and computer security. If which embodies principles, means and methods for the transformation of data in order to hide is undetected modification or prevent its unauthorised use. any technique that activates or enables cryptographic capability of an item, by means of a secure manufacturer of the item, where this mechanism is uniquely bound to either a single instance of
(8)	Is the not ("Cr. sector of the "Cr. sector of the ""Infoccion ("Infoccion "Cr. sector "Cr.	on c Functionality of your answers to (8) to the cryptographic capability employing a secure mechanism implemented by the item or one customer, for yes an item having "information security" means all munications, excluding the otographic activation", 'cryptography' means the disciputoformation content, prevent it ptography activation" means thanism implemented by the tem or one customer, for multiple of the second content, or multiple of the second content of the second conten	Y OF PRODUCT (31) are 'Yes', please provide the relevant details and supporting information. y usable, has been activated or can be activated by means of "cryptographic activation" nanism? In sany technique that activates or enables cryptographic capability of an item, by means of a drift by the manufacturer of the item, where this mechanism is uniquely bound to a single instance multiple instances of the item.) No On security" as a primary function? If the means and functions ensuring the accessibility, confidentiality or integrity of information or means and functions intended to safeguard against malfunctions. It includes "cryptography", analysis', protection against compromising emanations and computer security. If which embodies principles, means and methods for the transformation of data in order to hide is undetected modification or prevent its unauthorised use. any technique that activates or enables cryptographic capability of an item, by means of a secure manufacturer of the item, where this mechanism is uniquely bound to either a single instance of

(10) Is i	t a digital communi	cation or networking system, equipment or component?
	Yes	□ No
(11) Is i	t a computer, or ite	m having information storage or processing as a primary function, or its component therefor?
	Yes	□ No
(12) Is i	t an item where the	e cryptographic functionality supports a non-primary function of the item?
	Yes	□ No
		e cryptographic functionality is performed by incorporated equipment or "software" that would, be specified in Category 5 – Part 2?
("sof	tware" means a colle	ection of one or more 'programs' or 'microprograms' recorded, stored or embodied in any device;
	gram' means a sequ outer.	ence of instructions to carry out a process in, or convertible into, a form executable by an electronic
		sequence of elementary instructions maintained in a special storage, the execution of which is initiated reference instruction into an instruction register.)
□,	Yes	□ No
(14) Is i	t a smart card or a	n electronically readable personal document (e.g. token coin, e-passport)?
	Yes	□ No
		_
	es', please state th	-
(a)	_	ic capability restricted for use in equipment or systems that are <u>not</u> stated in (9) to (12)?
	∐ Yes	□ No
(b)	Is the cryptograph confidentiality'?	nic capability restricted for use in equipment or systems not using 'cryptography for data
	('Cryptography for da function other than a	ata confidentiality' means "cryptography" that employs digital techniques and performs any cryptographic any of the following:
	(i) "Authentication)" ,
	(ii) Digital signatui	re;
	(iii) Data integrity;	
	(iv) Non-repudiation	n;
	(v) Digital rights m	nanagement, including the execution of copy-protected software;
	(vi) Encryption or o	decryption in support of entertainment, mass commercial broadcasts or medical records management; <u>or</u>
	(vii) Key managem	ent in support of any function described in paragraphs (i) to (vi) above.
	resources in an info	eans verifying the identity of a user, process or device, often as a prerequisite to allowing access to cormation system. This includes verifying the origin or content of a message or other information, and all control where there is no encryption of files or text except as directly related to the protection of passwords, tion Numbers (PINs) or similar data to prevent unauthorised access.)
	Yes	□ No
(c)	Can it be reprogra	mmed for any other use?
` '	☐ Yes	□ No

	identification		aphic capability	rsonalised for public or commercial transactions or individual is not user-accessible and it is specially designed and limited to
		' includes any data authentication".)	specific to a parti	cular person or entity, such as the amount of money stored and data
	☐ Yes	☐ No		
(15				and limited, for items fulfilling (14) (a) to (14) (c), or (14) (d)? s with smart cards or electronically readable documents through a
	network.)			
	Yes		☐ No	
(16) Is it a cryptograp	hic equipment spe	cially designed a	and limited to banking use or 'money transactions'?
	('Money transaction	s' include the collect	tion and settlemer	t of fares or credit functions.)
	Yes		☐ No	
(17	systems) that are than Radio Acces	not capable of tra	nsmitting encryp equipment), nor	e (e.g. for use with commercial civil cellular radio communication ted data directly to another radiotelephone or equipment (other of passing encrypted data through RAN equipment (e.g. Radio (BSC))?
	Yes		☐ No	
(18	unboosted cordle		a single, unrelay	f end-to-end encryption where the maximum effective range of red hop between terminal and home base station) is less than s?
	Yes		☐ No	
(19	published or comr also meet the pro	mercial cryptograpl visions stated in (5	hic standards (ex b) and (6), that h	nilar client wireless device for civil use, that implements only keept for anti-piracy functions, which may be non-published) and ave been customised for a specific civil industry application with ality of these original non-customised devices?
	Yes		☐ No	
(20	published or com operating range	mercial cryptographot exceeding 30	phic standards a m according t	ireless "personal area network" functionality that implement only and where the cryptographic capability is limited to a nominal of the manufacturer's specifications, or not exceeding 100 mulpment that cannot interconnect with more than seven devices?
	("Personal area net	work" means a data	communication sy	stem having both of the following characteristics:
		-	-	connected 'data devices' to communicate directly with each other; and
				within the immediate vicinity of an individual person or device controller arby surrounding spaces).
	'Data devices' mea	ns equipment capab	le of transmitting o	r receiving sequences of digital information.)
	Yes		☐ No	
(21		in (5) and (6), hav		work (RAN) equipment designed for civil use, and also meet the t power limited to 0.1 W (20 dBm) or less, and supporting 16 or
	Yes		☐ No	

(22)					y, where the "informat ce" ("OAM") implement				o the tasks of "Operations, otographic standards?
	("OA	А <i>М" г</i>	near	s performing one	or more of the following ta	asks:			
	a. Establishing or managing any of the following:								
	Accounts or privileges of users or administrators;								
		2.		ings of an item; <u>or</u>		-,			
					support of the tasks desc	cribed in paragrap	hs	a 1 or a 2 ·	
	b.				e operating condition or pe	, , ,		· ·	
	С.				a in support of any of the			· 	
			•	•	of the following tasks or th		•		
	0,1	a.	Prov	isioning or upgra	•	functionality that	is	not directly related	to establishing or managing
					graphic functionality on the				
	\Box	res	0110	ming any orypros	∏ No	o rormanarig or ad	alu	plane of all Rolling	
		103			140				
(23)) Is i	t a g	ene	ral purpose com	outing equipment or se	rver?			
	□ '	Yes			☐ No				
	If 'Y	es',	plea	se state the follo	owing:				
	(a)	Doe	s th	e "information se	curity" functionality use	e only published	l o	r commercial crypto	graphic standards?
			Yes		lo				
	(b)	ls th	e "ir	nformation secur	ity" functionality integra	al to a Central Pr	roc	cessing Unit (CPU)?	
	(~)	_	Yes	_	lo				
			. 00						
		If 'Y	es',	please state the	following:				
				ne <u>CPU</u> available ugh any of the fo		at 'retail selling p	poi	ints' 'without restrict	tion', to the 'general public'
			(a)	Over-the-counte	r transactions	(h	١)	Mail order transaction	ons
			(4)	☐ Yes	□ No	(2	,	∏ Yes	□ No
									NO
				If 'Yes', please p seller:	rovide contact details o	of		If 'Yes', please prov seller:	ide contact details of
			(c)	Electronic transa	actions	(d	d)	Telephone call trans	sactions
				☐ Yes	☐ No			☐ Yes	☐ No
				If (Vaa' = 1 =	الاحتجاد فحجفتهم ماملارمس	-£		If (Vac'	ddo oontoot datalla af
				if 'Yes', please p seller:	rovide contact details o	ΣĬ		if 'Yes', please prov seller:	ride contact details of

		(ii)	Can the user manufacturer's	easily change the cryptographic functionality of the $\underline{\text{CPU}}$ from what is specified in the specification?
				aphic functionality in the product can only be used according to the manufacturer specification. Specific user selection on the key length, etc., is not considered as "easily change".)
			☐ Yes	□ No
			If 'Yes', please	provide details:
		(iii)	Is the <u>CPU</u> des	igned for installation by the user without further substantial support by the supplier?
			(This does not in	nclude nominal installation support, such as telephone or e-mail help-lines to resolve user problems.)
			Yes	□ No
			If 'Yes', please	provide details:
	(-)	1. 4	L - ": f .!	
	(c)	IS t	ne "information Yes	security" functionality integral to an operating system? □ No
		IE 12		
			es', please stat	-
		(i)		g system specially designed or modified for the "development", "production" or "use" of an ecurity" equipment?
			design research	in relation to any goods, means any stage prior to the serial production of the goods, including design, design analysis, development of a design concept, assembly and testing of a prototype, pilot production, esign data, the process of transforming design data into a product, configuration design, integration out;
			"production", in engineering, ma	relation to any goods, means any stage of production of the goods, including construction, production nufacture, integration, assembly, mounting, inspection, testing, and quality assurance;
			"use", in relation of the goods.)	to any goods, means the operation, installation, maintenance, inspection, repair, overhaul or refurbishing
			☐ Yes	□ No
		(ii)	Is the operating	g system having the characteristics of a cryptographic activation token stated in (25)?
			☐ Yes	□ No
	(d)	ls t	he "information	security" functionality limited to "OAM" of the equipment?
	. ,		Yes	□ No
(24	,	•	, ,	I for a 'connected civil industry application'?
				application' means a network connected consumer or civil industry application other than "information ication, general purpose networking or computing.)
		Yes		□ No

ı	f 'Y	'Yes', please state the following:						
((a)	Is it a network-caparbitrary data' or t		device where the "information security" functionality is limited to securing 'non-AM"?				
			perature, pressur	or metering data directly related to the stability, performance or physical measurement of re, flow rate, mass, volume, voltage, physical location, etc.), that cannot be changed by				
		Yes	☐ No					
((b)	Is it a network-car	pable endpoint	device limited to a specific 'connected civil industry application'?				
	,	Yes	☐ No					
((c)	Is it a networking	equipment spe	cially designed to communicate with the devices stated in (24) (a) and (24) (b)?				
		Yes	☐ No					
((d)		lication' of dev	ere the "information security" functionality is limited to supporting the 'connected vices stated in (24) (a) and (24) (b), or the tasks of "OAM" of this networking ed in (24)?				
		☐ Yes	☐ No					
((e)			urity" functionality implements only published or commercial cryptographic functionality cannot easily be changed by the user?				
		Yes	☐ No					
•		For converting, a	n item not spec	designed or modified to enable, by means of "cryptographic activation": sified in Category 5 – Part 2 "Information Security" into an item stated in (32) or e characteristics of, or performing or simulating the functions of (26), (27) and				
		Yes	□ No					
((b)	For enabling, add		nality stated in (32) or (33) of an item already specified in Category 5 – Part 2				
		Yes	☐ No					
26)	ls i	t designed or mod	ified to use or p	perform "quantum cryptography"?				
(qua		operties of a phy	y of techniques for the establishment of shared key for "cryptography" by measuring the visical system (including those physical properties explicitly governed by quantum optics, dynamics).				
,	"Qu	antum cryptography	" is also known a	as Quantum Key Distribution (QKD).)				
	□ `	Yes		□ No				
ĺ	netv	work identification	codes, for syste	ryptographic techniques to generate channelising codes, scrambling codes or ems using ultra-wideband modulation techniques and having either a bandwidth pandwidth" of 20% or more?				
(("Fra	actional bandwidth"	means the "insta	intaneous bandwidth" divided by the centre frequency, expressed as a percentage.				
		tantaneous bandwic er operating parame		andwidth over which output power remains constant within 3 dB without adjustment of				
	<u> </u>	Yes		□ No				

•	se cryptographic techniques to generate the spreading code for "spread spectrum" d in (26) including the hopping code for "frequency hopping" systems?
("Spread spectrum" means the tec much wider energy spectrum.	hnique whereby energy in a relatively narrow-band communication channel is spread over a
	of "spread spectrum" in which the transmission frequency of a single communication channel pseudo-random sequence of discrete steps.)
Yes	□ No
(29) Is it a communications cable sy surreptitious intrusion?	stem designed or modified using mechanical, electrical or electronic means to detect
	ly includes physical layer security where the physical layer includes Layer 1 of the Reference ection (OSI) (Ref. ISO/IEC 7498-1).)
☐ Yes	□ No
	ified to reduce the compromising emanations of information-bearing signals beyond fety or electromagnetic interference standards?
Yes	□ No
(31) Is it designed or modified to pe	rform 'cryptanalytic functions'?
(This includes systems or equipme	nt, designed or modified to perform 'cryptanalytic functions' by means of reverse engineering.
'Cryptanalytic functions' are function sensitive data, including clear text,	ons designed to defeat cryptographic mechanisms in order to derive confidential variables or passwords or cryptographic keys.)
☐ Yes	□ No
SECTION D TECHNICAL QUES	STIONS
	ETIONS owing is 'Yes', please provide the relevant details and supporting information.
	owing is 'Yes', please provide the relevant details and supporting information.
If your answers to any of the following	owing is 'Yes', please provide the relevant details and supporting information.
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo	owing is 'Yes', please provide the relevant details and supporting information. cryptographic functions?
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo	owing is 'Yes', please provide the relevant details and supporting information. cryptographic functions? ying a key length in excess of 56 bits, not including parity bits?
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cr	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yptographic algorithm using an identical key for both encryption and decryption.) \[\sum \text{No} \]
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cri Yes	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yptographic algorithm using an identical key for both encryption and decryption.) \[\sum \text{No} \]
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cri Yes If 'Yes', please state the followin (a) Full name:	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yptographic algorithm using an identical key for both encryption and decryption.) \[\sum \text{No} \]
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cri Yes If 'Yes', please state the following	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yptographic algorithm using an identical key for both encryption and decryption.) \[\sum \text{No} \]
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cri Yes If 'Yes', please state the followin (a) Full name:	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yptographic algorithm using an identical key for both encryption and decryption.) No ng:
If your answers to any of the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cr Yes If 'Yes', please state the following (a) Full name: (b) Key length: bits	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yptographic algorithm using an identical key for both encryption and decryption.) No ng:
If your answers to any of the following Does the item contain the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cr ☐ Yes If 'Yes', please state the followin (a) Full name: (b) Key length: bits (c) Is it used for any of the following	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yptographic algorithm using an identical key for both encryption and decryption.) No ng:
If your answers to any of the following (32) A "symmetric algorithm" emplo ("Symmetric algorithm" means a cr Yes If 'Yes', please state the following (a) Full name: (b) Key length: bits (c) Is it used for any of the following (i) "Authentication"	cryptographic functions? ying a key length in excess of 56 bits, not including parity bits? yyptographic algorithm using an identical key for both encryption and decryption.) No ng:

	(iii) Data inte	arity	
	\	_	No
	(iv) Non-repu	udiation	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ Yes	_	No
			ent, including the execution of copy-protected software
	Yes	_	No
		on or decryptic	on in support of entertainment, mass commercial broadcasts or medical records
	☐ Yes	_	No
			upport of any of the cryptographic functions in (32) (c) (i) to (vi)
	Yes		No
(d)	Is it used for encr	ryption or decr	yption other than the cryptographic functions in (32) (c)?
	If 'Yes', please sp	pecify what is h	being encrypted/decrypted:
	Files	☐ Text	☐ Communication
	Others, pleas	e specify:	
(33) An	"asymmetric algo	rithm" where t	he security of the algorithm is based on any of the following:
	symmetric algorithm ryption.	ı" means a cry	ptographic algorithm using different, mathematically-related keys for encryption and
	algorithm described stant.)	1 by 33 (c), (d)	and (e) below may be referred to as being post-quantum, quantum-safe or quantum-
(a)	Factorisation of ir	ntegers in exce	ess of 512 bits (e.g. RSA)
	☐ Yes	☐ No	
(b)	Computation of di Hellman over Z/p		nms in a multiplicative group of a finite field of size greater than 512 bits (e.g. Diffie-
	Yes	☐ No	
(c)	Shortest vector of Titanium)	r closest vecto	or problems associated with lattices (e.g. NewHope, Frodo, NTRUEncrypt, Kyber,
	Yes	☐ No	
(d)	Finding isogenies	s between Sup	persingular elliptic curves (e.g. Supersingular Isogeny Key Encapsulation)
	☐ Yes	☐ No	
(e)	Decoding random	n codes (e.g. N	McEliece, Niederreiter)
	☐ Yes	☐ No	
(f)	Other public key	primitives in ex	xcess of 112 bits (e.g. Diffie-Hellman over an elliptic curve)
	Yes	☐ No	
	-	the above, plea	ase state the following: es used:

(ii)	Full name:	
(iii)	Key length:	bits
(iv)	Is it used for any o	f the following?
	(a) "Authentication	"
	☐ Yes	□ No
	(b) Digital signatur	re
	☐ Yes	□ No
	(c) Data integrity	
	☐ Yes	□ No
	(d) Non-repudiation	n
	☐ Yes	□ No
	(e) Digital rights m	anagement, including the execution of copy-protected software
	☐ Yes	□ No
	(f) Encryption or of management	decryption in support of entertainment, mass commercial broadcasts or medical records
	☐ Yes	□ No
	(g) Key managem	ent in support of any of the cryptographic functions in (33) (a) (iv) (a) to (f)
	☐ Yes	□ No
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(V)	•	ption or decryption other than the cryptographic functions in (33) (a) (iv)?
	Yes	□ No
	If 'Yes', please spe	cify what is being encrypted/decrypted:
	Files	☐ Text ☐ Communication
	Others, please	specify:
(34) Are the DSP co	e cryptographic algo ode)?	orithms implemented in hardware (ASIC/ ASSP/ gate array) or software (microprocessor/