E_TSUM Requested by: MATTEO.C	Date: 21.11.2023 10:04:03 AM	DB: CRYPTO3US.MDB	Plan Id.:	Notice type: NONGEO

A	*A1a* Sat. Network: CRYPTO3US	*A1f1* Notif. adm.: USA	*A1f3* Inter. sat. org.:	*BR1* Date of receipt: 20.11.2023	*BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 123545046	*BR3a* Provision reference: 9.1/IA	*BR2* Adm. serial no.:

Résumé / Summary / Resumen

Article 9, sous-section IA / Article 9, sub-section IA / Artículo 9, sub-sección IA

第9条第1A分节 / Статья 9, подраздел IA / المادة 9، القسم الفرعي IA

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	BR47 Frequency band (MHz)	BR62 Expiry date for bringing into use	C4a Class of station
IRDUP	R		123614235		1618.725 - 1626.292	15.02.2030	ES
SUP	R		123614234		2046.25 - 2048.75	15.02.2030	ET
IRDOWN	E		123614236		1618.725 - 1626.5	15.02.2030	ES
SDOWN	E		123614233		2258.75 - 2261.25	15.02.2030	ET

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BR6a/BR6b Id. no.: 123545046 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: IRDUP R

A1f2 Submitted on behalf:

A1g Short Mission Duration Res 32: N

A4b1 No. of orbital planes: 1 *A4b2* Ref. body: T *BR99* Total number of satellites: 1

A4b1a Constellation: N *A4b1b* Configuration type: *A4b1c* Number of sub-sets mutually exclusive:

A4b3a No. of space stations simult. trans. on Northern Hemisphere: *A4b3b* No. of space stations simult. trans. on Southern Hemisphere:

Action code	*Orbital plane id. no.*	*A4b1d Orbit set id.*	*A4b4a Inclination angle*	*A4b4b No. of satellites in this plane*	*A4b4c Period*	*A4b4d Apogee*	*A4b4e Perigee*	*A4b4f Min. altitude*	*A4b4i Arg. of perigee*	*A4b4j Long. asc. node*	*A4b4m,n,o Sun synchronous*		
											Y/N	*Reference node*	*Node local time*
	1		97	1	0-01:35	550e0	550e0	550e0			Y		

Les renseignements figurant dans le tableau «PHASE» (éléments A.4.b.4.j, A.4.b.4.h et A.4.b.4.l de l'Appendice 4) ne sont pas inclus dans le présent fichier et peuvent être consultés directement dans la base de données mdb, si besoin est.	Information from the "PHASE" table (A.4.b.4.j, A.4.b.4.h and A.4.b.4.l of Appendix 4) is not included in this file and may be consulted directly from the mdb database if needed.	En este archivo no se incluye información del Cuadro «FASE» (A.4.b.4.j, A.4.b.4.h y A.4.b.4.l del Apéndice 4) que, en caso necesario, puede consultarse directamente en la base de datos mdb.

B1a/BR17 Beam designation: IRDUP *B1b* Steerable: *B2* Emi-Rcp: R *B3a1* Max. co-polar gain: 2

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle:

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.

List of orbital planes

ALL

B4a3a1 Angle alpha: *B4a3a2* Angle beta:

BR92 Attach. for missing angle alpha/beta:

BR7a/BR7b Group id.: 123614235 *BR1* Date of receipt: 20.11.2023 *C2c* RR No. 4.4: Y

BR14 Special Section:

C4a Class of station: ES *C3a* Assigned freq. band: *C5a* Noise temperature: 150

C4b Nature of service: CV *C6a* Polarization type: CR *C6b* Polarization angle:

C11a2 Service area: *C11a3* Service area diagram:

A2b Period of valid.: 5 *A3a* Op. agency: 190 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A: 15.02.2023

BR62 Expiry date for bringing into use 11.44/11.44.1: 15.02.2030

C1 Frequency Range

C1a Lower limit		*C1b* Upper limit	
1618.725	MHz	1626.292	MHz

	C7a Design. of emission	*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.	*C8f2* E.i.r.p. on the beam axis
1	35K0G1D--	20.9	-24.5	20.9		-24.5		17		20.9

C7b Carrier frequency of the emissions (35K0G1D--)

1622.4375	MHz																		

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A *A1a* Sat. Network: CRYPTO3US *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 20.11.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 123545046 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: IRDUP R

C10a1 Assoc. space station id.	*C10a3* Type	*C10a2* Nominal longitude	*C10a4* Beam designation
HIBLEO-2	N		IRDUP

13C Remarks:

B1a/BR17 Beam designation: SUP *B1b* Steerable: *B2* Emi-Rcp: R *B3a1* Max. co-polar gain: 5.5

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle:

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.

List of orbital planes: ALL

B4a3a1 Angle alpha: *B4a3a2* Angle beta:

BR92 Attach. for missing angle alpha/beta:

BR7a/BR7b Group id.: 123614234 *BR1* Date of receipt: 20.11.2023 *C2c* RR No. 4.4:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band: *C5a* Noise temperature: 644

C4b Nature of service: CV *C6a* Polarization type: CL *C6b* Polarization angle:

C11a2 Service area: AUS, AZE, AZR, BUL, CLN, E, G, I, ISL, MAU, NZL *C11a3* Service area diagram:

A2b Period of valid.: 5 *A3a* Op. agency: 190 *A3b* Adm. resp.: M *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A: 15.02.2023

BR62 Expiry date for bringing into use 11.44/11.44.1: 15.02.2030

C1 Frequency Range			
C1a Lower limit		*C1b* Upper limit	
2046.25	MHz	2048.75	MHz

C7a Design. of emission	*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.	*C8f2* E.i.r.p. on the beam axis
1 2M50G1DXN	15	-48.9	8		-55.9		30		

C7b Carrier frequency of the emissions (2M50G1DXN)																			
2047.5	MHz																		

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.			*C10d3* Max. iso. gain	*C10d4* Bmwdth					
AZ01-01	S	049E29 09	40N27 59	AZE	1	TT	CV	35	2.76					
IS01-01	S	020W14 46	65N38 50	ISL	1	TT	CV	35	2.76					
LK01-01	S	080E43 29	07N16 27	CLN	1	TT	CV	35	2.76					
UK01-01	S	000W51 30	60N44 54	G	1	TT	CV	35	2.76					
BG02-01	S	023E26 43	42N28 57	BUL	1	TT	CV	35.8	2.2					

	C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
AZ01-01	REC-465-5						

A *A1a* Sat. Network: CRYPTO3US *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 20.11.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 123545046 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: SUP R

IS01-01	REC-465-5
LK01-01	REC-465-5
UK01-01	REC-465-5
BG02-01	REC-465-5

13C Remarks:

B1a/BR17 Beam designation: IRDOWN *B1b* Steerable: *B2* Emi-Rcp: E *B3a1* Max. co-polar gain: 2

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle: 0

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.

List of orbital planes

ALL

B4a3a1 Angle alpha: *B4a3a2* Angle beta:

BR92 Attach. for missing angle alpha/beta:

BR7a/BR7b Group id.: 123614236 *BR1* Date of receipt: 20.11.2023 *C2c* RR No. 4.4: Y

BR14 Special Section:

C4a Class of station: ES *C3a* Assigned freq. band:

C4b Nature of service: CV *C6a* Polarization type: CR *C6b* Polarization angle:

C8d1 Max. tot. peak pwr.: *C8d2* Contiguous bandwidth:

C11a2 Service area: *C11a3* Service area diagram:

A2b Period of valid.: 5 *A3a* Op. agency: 190 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A: 15.02.2023

BR62 Expiry date for bringing into use 11.44/11.44.1: 15.02.2030

C1 Frequency Range

C1a Lower limit		*C1b* Upper limit	
1618.725	MHz	1626.5	MHz

	C7a Design. of emission	*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.	*C8f1* E.i.r.p. on the beam axis
1	35K0G1D--	2	-43.4	2		-43.4		14.9		5

C7b Carrier frequency of the emissions (35K0G1D--)

1622.4375	MHz

	C10a1 Assoc. space station id.	*C10a3* Type	*C10a2* Nominal longitude	*C10a4* Beam designation
	HIBLEO-2	N		R

13C Remarks:

B1a/BR17 Beam designation: SDOWN *B1b* Steerable: *B2* Emi-Rcp: E *B3a1* Max. co-polar gain: 5.5

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle: 5

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A *A1a* Sat. Network CRYPTO3US *A1f1* Notif. adm. USA *A1f3* Inter. sat. org. *BR1* Date of receipt 20.11.2023 *BR20* BR IFIC no.

BR6a/BR6b Id. no. 123545046 *BR3a* Provision reference 9.1/IA *BR2* Adm. serial no. SDOWN E

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.

List of orbital planes
ALL

B4a3a1 Angle alpha *B4a3a2* Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id. 123614233 *BR1* Date of receipt 20.11.2023 *C2c* RR No. 4.4

BR14 Special Section

C4a Class of station ET *C3a* Assigned freq. band

C4b Nature of service CV *C6a* Polarization type CR *C6b* Polarization angle

C8d1 Max. tot. peak pwr. *C8d2* Contiguous bandwidth

C11a2 Service area AUS, AZE, AZR, BUL, CLN, E, G, I, ISL, MAU, NZL *C11a3* Service area diagram

A2b Period of valid. 5 *A3a* Op. agency 190 *A3b* Adm. resp. M *BR16* Value of type C8b

BR96 Start date for 9.1/9.1A 15.02.2023

BR62 Expiry date for bringing into use 11.44/11.44.1 15.02.2030

C1 Frequency Range			
C1a Lower limit		*C1b* Upper limit	
2258.75	MHz	2261.25	MHz

	C7a Design. of emission	*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.	*C8f1* E.i.r.p. on the beam axis
1	2M50G1DXN	1	-62.9	0		-63.9		30		

C7b Carrier frequency of the emissions (2M50G1DXN)																			
2260	MHz																		

	C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.			*C10d3* Max. iso. gain	*C10d4* Bmwdth	*C10d6* Noise temp.		
	AZ01-01	S	049E29 09	40N27 59	AZE	1	TT	CV	34.6	2.4	141		
	IS01-01	S	020W14 46	65N38 50	ISL	1	TT	CV	34.6	2.4	141		
	LK01-01	S	080E43 29	07N16 27	CLN	1	TT	CV	34.6	2.4	141		
	UK01-01	S	000W51 30	60N44 54	G	1	TT	CV	34.6	2.4	141		
	BG02-01	S	023E26 43	42N28 57	BUL	1	TT	CV	35.8	2.2	135		

	C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
AZ01-01	REC-465-5						
IS01-01	REC-465-5						
LK01-01	REC-465-5						
UK01-01	REC-465-5						
BG02-01	REC-465-5						

13C Remarks

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A	*A1a* Sat. Network: CRYPTO3US	*A1f1* Notif. adm.: USA	*A1f3* Inter. sat. org.:	*BR1* Date of receipt: 20.11.2023	*BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 123545046	*BR3a* Provision reference: 9.1/IA	*BR2* Adm. serial no.:	SDOWN	E

***C9* Modulation characteristics**	***C7a* Designation of emission 35K0G1D--**
C9a1 Type of modulation	DQPSK
C9a2a Lowest frequency	
C9a2b Highest frequency	
C9a2c Frequency deviation	
C9a3a Freq. deviation of the pre-emphasized signal	
C9a3b Pre-emphasis characteristics	
C9a3c Type of multiplexing	
C9a4a Bit rate	
C9a4b Number of phases	
C9a5a Modulating signal attached (see attch. no.)	
C9a5b Amplitude modulation	
C9a6a Peak-to-peak freq. dev.	
C9a6b Sweep frequency	
C9a6c Energy dispersal waveform	
C9a7 Type of energy dispersal	
C9a8 Other types of modulation (see attch. no.)	
C9a9 TV standard	
BR7a Group id.	123614235, 123614236

BR22 Administration remarks

BR23 Radiocommunication Bureau comments