

**Secretariat**

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Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 14 June 2024 from the Permanent Mission of Luxembourg to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Luxembourg to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution [3235 \(XXIX\)](#), annex), has the honour to transmit a list of space objects registered by Luxembourg (see annex).¹

¹ The data on the space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 15 July 2024.



Annex

[Original: English]

Information provided in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space*

Submission date: 30 May 2024

Table 1

New space object registrations

Committee on Space Research international designator	Name of the space object	Date and time of the launch (CEST)	Location of the launch	State of registry	Basic orbital parameters					General function of the space object	Additional voluntary information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)		Owner or operator	Launch vehicle	Date of entry of record into the National Registry
2023-155J	MACSAT	9 October 2023 at 0336 hours	Guiana Space Centre, Kourou, French Guiana	Luxembourg	95.91	97.66	565	561	-	Telecommunications, Internet of Things (IoT)	OQ Technology S.à.r.l.	VEGA	23 January 2024

Table 2

Additional information on previously registered space objects

Committee on Space Research international designator	Name of the space object	Additional information as recommended in General Assembly resolution 62/101			Additional voluntary information for use in the United Nations Register of Objects Launched into Outer Space						
		Date when no longer functional ("Date of Decommissioning" according to the Luxembourg Registry of Space Objects)	Physical conditions when moved to a disposal orbit ^a	Date of decay/ re-entry/ deorbit	Changes to basic orbital parameters				Basic information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)	Other information	Date of entry of record into the National Registry
1998-050A	ASTRA 2A	-	-	-	1 435.8- 1 436.4	Uncontrolled inclination since 10 August 2018 Orbital inclination is therefore increasing over time and was 1.8 degrees on 10 August 2020	35 820	35 752	57.2 (since 20 June 2022)	-	6 February 2024

* The registration data are reproduced in the form in which they were received.

Committee on Space Research international designator	Name of the space object	Additional information as recommended in General Assembly resolution 62/101			Additional voluntary information for use in the United Nations Register of Objects Launched into Outer Space						
		Date when no longer functional ("Date of Decommissioning" according to the Luxembourg Registry of Space Objects)	Physical conditions when moved to a disposal orbit ^a	Date of decay/ re-entry/ deorbit	Changes to basic orbital parameters				Basic information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)	Other information	Date of entry of record into the National Registry
2019-018G	FM99 (LEMUR 2 Johanloran)	7 March 2023	-	-	87.7	97.256	178.7	156.8	-	The satellite has been decommissioned	26 February 2024
2019-018H	FM100 (LEMUR 2 Beaudacious)	30 June 2023	-	-	88.119	97.223	198.1	178.9	-	The satellite has been decommissioned	26 February 2024
2019-018J	FM101 (LEMUR 2 Elham)	3 May 2023	-	-	87.923	97.247	190.7	166.9	-	The satellite has been decommissioned	26 February 2024
2019-018K	FM102 (LEMUR 2 Victor-Andrew)	8 March 2023	-	-	88.462	97.25	214.4	196.7	-	The satellite has been decommissioned	26 February 2024
2021-059AY	FM143 (LEMUR- 2 John-Treires)	1 December 2023	-	-	88.36	97.571	205.7	195.3	-	The satellite has been decommissioned	26 February 2024
2021-059CJ	FM150 (LEMUR- 2 CarlSantaMari)	13 August 2023	-	-	87.915	97.572	188.4	168.4	-	The satellite has been decommissioned	26 February 2024
2022-003F (correct designator 2022-003G)	FM151 (LEMUR- 2 KRYW)	13 August 2023	-	-	88.033	44.938	186.4	182.2	-	The correct COSPAR international designator is 2022-003G The satellite has been decommissioned	26 February 2024
2021-059BD	KSF1-A	19 February 2022	-	23 February 2024	-	-	-	-	-	-	26 February 2024
2021-059AZ	KSF1-B	11 October 2021	-	14 February 2024	-	-	-	-	-	-	26 February 2024
2021-059BR	KSF1-C	16 March 2022	-	21 February 2024	-	-	-	-	-	-	26 February 2024
2021-059BZ	KSF1-D	21 February 2022	-	5 December 2023	-	-	-	-	-	-	26 February 2024

		Additional information as recommended in General Assembly resolution 62/101			Additional voluntary information for use in the United Nations Register of Objects Launched into Outer Space						
		Date when no longer functional ("Date of Decommissioning" according to the Luxembourg Registry of Space Objects)	Physical conditions when moved to a disposal orbit ^a	Date of decay/ re-entry/ deorbit	Changes to basic orbital parameters				Basic information		
Committee on Space Research international designator	Name of the space object				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)	Other information	Date of entry of record into the National Registry
2022-033AN	KSF2-B	20 May 2022	-	14 February 2024	-	-	-	-	-	-	26 February 2024
2022-033AK	KSF2-D	20 June 2023	-	7 December 2023	-	-	-	-	-	-	26 February 2024
2021-006AP	FM136 (LEMUR- 2 Neva)	20 January 2024	-	-	87.792	97.349	179.6	165	-	The satellite has been decommissioned	24 May 2024
2022-002AQ	FM141 (LEMUR- 2 King-Julien)	17 January 2024	-	-	87.961	97.391	186.8	174.6	-	The satellite has been decommissioned	24 May 2024

^a See the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space (ST/SPACE/49).