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**Committee on the Peaceful
Uses of Outer Space****Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space****Note verbale dated 9 March 2021 from the Permanent Mission of
Germany to the United Nations (Vienna) addressed to the
Secretary-General**

The Permanent Mission of Germany 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 information concerning space objects launched by Germany (see annex).¹

¹ The data on space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 12 March 2021.



Annex

Registration data on space objects launched by Germany*

Spectrum AnaLysis SATellite (SALSAT)

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

Committee on Space Research international designator	2020-068K
Name of space object	Spectrum AnaLysis SATellite (SALSAT)
National designator/registration number	D-R080
State of registry	Germany
Other launching States	Canada, Finland, Russian Federation, United Arab Emirates, United Kingdom of Great Britain and Northern Ireland and United States of America
Date and territory or location of launch	28 September 2020 at 1120 hours 32 seconds UTC; Plesetsk Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	96.17 minutes
Inclination	97.69 degrees
Apogee	575 kilometres
Perigee	575 kilometres
General functions of space object	Spectrum AnaLysis SATellite (SALSAT) is a nanosatellite project of the Technical University of Berlin to develop, launch and operate a nanosatellite with a payload for in-orbit spectrum analysis and the demonstration of space technology and satellite communication

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Technical University of Berlin
Website	https://tu.berlin/
Launch vehicle	Soyuz 2.1b Fregat-M
Other information	The year in which the space object is expected to no longer be functional is 2030 The expected year of re-entry is 2040 The project is funded by the German Aerospace Center (DLR)

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

NetSat-1

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

Committee on Space Research international designator	2020-068W
Name of space object	NetSat-1
National designator/registration number	D-R081
State of registry	Germany
Other launching States	Canada, Finland, Russian Federation, United Arab Emirates, United Kingdom and United States
Date and territory or location of launch	28 September 2020 at 1120 hours 32 seconds UTC; Plesetsk Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	95.78 minutes
Inclination	97.6 degrees
Apogee	573.092 kilometres
Perigee	543.561 kilometres
General functions of space object	Demonstration of autonomous formation flight in three dimensions

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Zentrum für Telematik e.V.
Website	www.telematik-zentrum.de/en/projects/netsat/
Launch vehicle	Soyuz 2.1b Fregat-M
Other information	The year in which the space object is expected to no longer be functional is 2025 The spacecraft will carry out measures to ensure its re-entry within 25 years after the end of its mission The project is funded through a European Research Council (ERC) Advanced Grant

NetSat-2

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

Committee on Space Research international designator	2020-068X
Name of space object	NetSat-2
National designator/registration number	D-R082
State of registry	Germany
Other launching States	Canada, Finland, Russian Federation, United Arab Emirates, United Kingdom and United States

Date and territory or location of launch	28 September 2020 at 1120 hours 32 seconds UTC; Plesetsk Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	95.78 minutes
Inclination	97.6 degrees
Apogee	573.092 kilometres
Perigee	543.561 kilometres
General functions of space object	Demonstration of autonomous formation flight in three dimensions

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Zentrum für Telematik e.V.
Website	www.telematik-zentrum.de/en/projects/netsat/
Launch vehicle	Soyuz 2.1b Fregat-M
Other information	The year in which the space object is expected to no longer be functional is 2025 The spacecraft will carry out measures to ensure its re-entry within 25 years after the end of its mission The project is funded through an ERC Advanced Grant

NetSat-3

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

Committee on Space Research international designator	2020-068V
Name of space object	NetSat-3
National designator/registration number	D-R083
State of registry	Germany
Other launching States	Canada, Finland, Russian Federation, United Arab Emirates, United Kingdom and United States
Date and territory or location of launch	28 September 2020 at 1120 hours 32 seconds UTC; Plesetsk Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	95.78 minutes
Inclination	97.6 degrees
Apogee	573.092 kilometres
Perigee	543.561 kilometres
General functions of space object	Demonstration of autonomous formation flight in three dimensions

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Zentrum für Telematik e.V.
Website	www.telematik-zentrum.de/en/projects/netsat/
Launch vehicle	Soyuz 2.1b Fregat-M
Other information	The year in which the space object is expected to no longer be functional is 2025 The spacecraft will carry out measures to ensure its re-entry within 25 years after the end of its mission The project is funded through an ERC Advanced Grant

NetSat-4

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

Committee on Space Research international designator	2020-068U
Name of space object	NetSat-4
National designator/registration number	D-R084
State of registry	Germany
Other launching States	Canada, Finland, Russian Federation, United Arab Emirates, United Kingdom of and United States
Date and territory or location of launch	28 September 2020 at 1120 hours 32 seconds UTC; Plesetsk Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	95.78 minutes
Inclination	97.6 degrees
Apogee	573.092 kilometres
Perigee	543.561 kilometres
General functions of space object	Demonstration of autonomous formation flight in three dimensions

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Zentrum für Telematik e.V.
Website	www.telematik-zentrum.de/en/projects/netsat/
Launch vehicle	Soyuz 2.1b Fregat-M
Other information	The year in which the space object is expected to no longer be functional is 2025 The spacecraft will carry out measures to ensure its re-entry within 25 years after the end of its mission The project is funded through an ERC Advanced Grant