

MAY 2024

GUIDELINES FOR SINGAPORE-RELATED SPACE ACTIVITIES

1. Purpose of these Guidelines

1.1 This document is published by the Office for Space Technology & Industry (OSTIn), Singapore's national space office, to provide guidance concerning space-related activities undertaken by applicable entities. There may be other legal or regulatory requirements or guidance published by the Government of Singapore or statutory boards on space-related activities, including those published by the Infocomm Media Development Authority (IMDA), that are not reflected in this document.

1.2 For the purposes of paragraph 1.1, the following are applicable entities:

- (a) any entity registered or incorporated or otherwise formed in Singapore that develops, launches, owns and/or operates a space object¹;
- (b) any entity that has received funding (whether wholly or partly) from the Government of Singapore for the development, launch, ownership and/or operation of a space object; and
- (c) any entity that intends to launch a space object from Singapore's territory.

1.3 The applicable entities should comply with these Guidelines.

2. Registration of space objects

2.1 OSTIn maintains a national registry of space objects launched into outer space. We request that all applicable entities register their space object(s) with OSTIn by completing and submitting the Registration Form at <https://go.gov.sg/spaceobjectregistration> at least 30 days before the date planned for the launch of the space object(s). A copy of the Registration Form is annexed to this document, for reference only.

¹ In this document, "space object" refers to any object launched into outer space, including component parts of a space object as well as its launch vehicle and parts thereof.

2.2 Additionally, we also request that all applicable entities inform OSTIn of any significant change to the status of their space object(s) at least 30 days before the date that the change takes effect, where possible, by completing and submitting the Registration Form at <https://go.gov.sg/spaceobjectregistration>. If this is not possible, applicable entities should inform OSTIn of any such significant change no later than 30 days after the date that the change takes effect. A significant change includes:

- Where the planned orbital parameters were changed before launch;
- The commencement of planned re-entry of a space object;
- When the space object is no longer in Earth orbit;
- A change in supervision (i.e. change in owner and/or operator);
- A change of function of the space object;
- The partial or full loss of function of the space object;
- The loss of ability to communicate with the space object;
- The break-up of the space object; and
- The deliberate transfer of the space object to another orbit or a disposal orbit.

In general, applicable entities do not need to inform OSTIn of changes due to orbital decay or during routine activities, such as orbit maintenance.

2.3 If applicable entities are unsure of whether they need to register their space object(s) with OSTIn, we strongly encourage applicable entities to submit the Registration Form regardless. Applicable entities may also contact OSTIn at ostin@edb.gov.sg if they have any queries.

3 Space safety and sustainability

3.1 The exploration and use of outer space should be conducted in a way that ensures the long-term sustainability of outer space activities. In this regard, space activities are to be conducted in a safe and responsible manner during all phases of a space mission, including launch, operation and end-of-life disposal.

3.2 All applicable entities should ensure that their space activities are aligned to the relevant international requirements, guidelines, standards and best practices.

3.3 The following is a non-exhaustive list of examples of such international requirements, guidelines, standards and best practices:

- ISO 14620 – Space Systems – Safety Requirements
- ISO 24113 – Space Systems – Space Debris Mitigation Requirements
- Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space (COPUOS)
- Space Debris Mitigation Guidelines of the Inter-Agency Space Debris Coordination Committee (IADC)
- Guidelines for the Long-term Sustainability of Outer Space Activities of COPUOS

4. Clarifications

4.1 For the avoidance of doubt, the contents of these Guidelines do not constitute legal advice and do not exhaustively set out the legal or regulatory requirements by the Government of Singapore or statutory boards on space-related activities. Applicable entities should ensure that they comply with all relevant laws and regulations, as well as guidance given by Singapore Government agencies.

4.2 The inclusion of a space object on the national registry does not necessarily mean that Singapore is its launching State or State of registry, or that Singapore bears international responsibility for the activities of or related to such space object.

4.3 Applicable entities should obtain their own legal advice on the relevant laws, regulations, and guidance which may apply to any space objects that they launch or operate, and the extent to which those laws, regulations, and guidance may affect their space-related activities, including on the issue of liability for damage caused by such space objects.

5. Contact Information

5.1 Should you have any queries regarding this document, please contact OSTIn at ostin@edb.gov.sg.

Registration Form

Estimated time to complete: 15 minutes

Please complete and submit this Registration Form online, at:

<https://go.gov.sg/spaceobjectregistration>

This form applies to the following entities:

- a) any entity registered or incorporated or otherwise formed in Singapore that develops, launches, owns and/or operates a space object;
- b) any entity that has received funding (whether wholly or partly) from the Government of Singapore for the development, launch, ownership and/or operation of a space object; and
- c) any entity that intends to launch a space object from Singapore's territory.

For new submissions, please complete and submit this form at least 30 days before the date planned for the launch of the space object(s). If there is any significant change to the status of your space object(s), please complete and submit this form at least 30 days before the date that the change takes effect, where possible. If this is not possible, you should inform OSTIn of any such significant change no later than 30 days after the date that the change takes effect. If any information is not yet known, please indicate this in the form.

*If you are unsure whether this form applies to you, we strongly encourage you to submit this form regardless, and OSTIn will contact you for further details or clarification if necessary.

S/n	Question	Response
Section A: Details of Applicant		
1	Entity Name	<i>Name of corporate entity making this submission</i>
2	UEN (where applicable)	
3	Name and designation of point of contact	<i>To be completed by the person who will serve as point of contact for the space object</i>
4	Email address of point of contact	
Section B: Details of space object		
5	Name of space object	<i>The common name/names used to identify the space object</i>

6	International designator (where assigned)	COSPAR ID and/or NORAD ID	
Section C: New or Existing submission			
7	Is this a new submission to OSTIn?	Yes, this is a new submission to OSTIn	<input type="checkbox"/>
		No, this is an update on a previous submission to OSTIn	<input type="checkbox"/>
		Others <i>Please elaborate:</i>	<input type="checkbox"/>
Section D: Overseas involvement			
8	Has there been any overseas involvement (whether government or private) in the funding, development, launch, ownership and/or operation of the space object?	Yes <i>Please provide brief details of the overseas entity / entities involved, and the nature of their involvement:</i>	<input type="checkbox"/>
		No	<input type="checkbox"/>
9	Has there been any involvement from another Singapore entity (whether government or private) in the funding, development, launch, ownership and/or operation of the space object?	Yes <i>Please provide brief details of the Singapore entity / entities involved, and the nature of their involvement:</i>	<input type="checkbox"/>
		No	<input type="checkbox"/>
Section E: Details of launch			
10	Date of launch	<i>If not yet launched, please indicate planned details</i>	
11	Time of launch (UTC)	<i>If not yet launched, please indicate planned details HH/MM/SS</i>	
12	Territory or location of launch	<i>If not yet launched, please indicate planned details</i>	
13	Launch vehicle	<i>If not yet launched, please indicate planned details</i>	
Section F: Orbital parameters			
14	Nodal period (min)	<i>If not yet launched, please indicate planned details</i>	
15	Inclination (degrees)	<i>If not yet launched, please indicate planned details</i>	

16	Apogee (km)	<i>If not yet launched, please indicate planned details</i>	
17	Perigee (km)	<i>If not yet launched, please indicate planned details</i>	
18	Geostationary position (if applicable)	<i>Applicable only to space objects in the geostationary orbit. Planned and/or actual location of space object in \pm degrees East along the equator from the Greenwich meridian (e.g. for 10.5 degrees West, use -10.5 degrees East). You may indicate 'N/a' if not applicable.</i>	
Section G: General function			
19	General function of space object	<i>Please provide a brief description</i>	
Section H: Additional information			
20	Current space object owner and/or operator		
21	Celestial body that the space object is orbiting	Earth	<input type="checkbox"/>
		Others <i>Please indicate:</i>	<input type="checkbox"/>
22	Website of the space object (if applicable)		
23	Resource used to track the space object	<i>Please indicate e.g. Space Track, commercial resource etc.:</i>	
Section I: Change in status of space object			
24	Please indicate the significant change in status of the space object	If the planned orbital parameters were changed before launch	<input type="checkbox"/>
		Commencement of planned re-entry of a space object	<input type="checkbox"/>
		When the space object is no longer in Earth orbit	<input type="checkbox"/>
		Change in supervision (i.e. change in owner and/or operator)	<input type="checkbox"/>
		Change of function of the space object	<input type="checkbox"/>
		Partial or full loss of function of the space object	<input type="checkbox"/>
		Loss of ability to communicate with the satellite	<input type="checkbox"/>
		Break-up of the space object	<input type="checkbox"/>
		Deliberate transfer of the space object to another orbit or a disposal orbit	<input type="checkbox"/>
	Others	<input type="checkbox"/>	
25	Please provide details of the significant change in status	<i>Please include date / time of change, where possible, and any other relevant details:</i>	