Data and Information Provided by Registered TraCSS Users
Updated March 6, 2025

This document provides an overview of information that will be provided by Registered TraCSS users, including Spacecraft Owner/ Operators and National Governments. Some of this information will be provided at registration, while other information is provided on a regular basis. Registered TraCSS users are requested to keep information up to date.

Spacecraft Owner Registration/ Data Provision

Organizational Information	This is information collected about the organization when the admin registered in TraCSS. Entities should keep this information up to date.	Open Data?	Reason for collection
Organizational contact information:	This information focuses on the owner/ operator of the spacecraft.		
Organization name	Name of the organization registering on TraCSS	OPEN	Necessary for identification
Headquarters location (country/ countries)	Organization headquarters location (country only). Multiple headquarters locations can be listed, if relevant. Spacecraft will be affiliated with the country in which the organization is headquartered.	OPEN	Necessary for determining country affiliation
Primary Contact information – position title, email, phone number	The primary representative for the organization's admin account has the ability to edit account information and to add/ remove other organizational users. This is the individual that would be contacted with any general inquiries for the organization (not emergency issues).	Not Open	Necessary for identification
Sub-groups	The organization has the option to set up sub-groups within the organization to help organize and manage the account. These could represent teams within the organization, for example.	Not Open	Feature for organizing the account

Additional organizational users (names, email addresses, phone numbers)	These are additional users that the admin adds to the account. These users may include additional organizational admins, sub-group admins, operators, and SSA service providers or other contractors (under contract). [When adding users, the admin will be able to set permissions, for example, determining who has write access and which users should receive "emergency notifications"]. Users can be assigned to sub-groups, if desired. Additional users can also be added at a later time.	Not Open	Necessary for identification
Spacecraft Information and Attributes	Information collected about the spacecraft that are operational (or soon to be operational) when registering in TraCSS. If additional spacecraft are launched by the organization after registration, they can be added later.		
Satellite name	Common name used to refer to the satellite. [To avoid confusion, it is best to choose a unique satellite name. Existing satellite names can be found in the satellite catalog.]	OPEN	Necessary for identification/ UN Registration
Alternate name(s)	Any alternate names used to refer to the satellite	OPEN	Necessary for identification
NORAD ID (if already assigned)	If an NORAD ID has been assigned to the spacecraft, include it here. If a NORAD ID has not yet been assigned, TraCSS will assign a temporary ID.	OPEN	Necessary for identification
International designator/ COSPAR ID (if already assigned)	If an International Designator/ COSPAR ID has been created, include it here.	OPEN	Necessary for identification
Owner/ operator organization	Automatically populated when satellite is added by an organizational user.	OPEN	Necessary for identification/ verification
Country of launch license	Which country licensed the satellite to launch?	OPEN	Necessary for determining country affiliation

Country providing communications license	Which country licensed the satellite to operate (communications)?	OPEN	Necessary for determining country affiliation
Country providing remote sensing/ novel activities license	Which country licensed the satellite for remote sensing (or novel activities)? [If applicable]	OPEN	Necessary for determining country affiliation
Country of UN Registry	Which country registered the spacecraft with the United Nations? [If known, available]	OPEN	Necessary for determining country affiliation
Constellation (if applicable)	Is the satellite part of a constellation? If yes, what is the name of the constellation?	OPEN	Helpful for coordination
Operational Status	Provide this information at registration, if it is available. This information will be automatically updated by OCM. [Dropdown Menu]: According to: https://sanaregistry.org/r/operational_status/ + in-transit, etc. (Check OCM)	OPEN	Helpful for coordination
Orbit category	Include in registration, if relevant; Automatically updated by OCM. According to: https://sanaregistry.org/r/orbit_categories/	OPEN	Helpful for coordination
Wet mass (binned value)	Wet mass of the spacecraft. This value is used for fragmentation model input. Operators may provide mass as a binned value.	OPEN	Necessary for fragmentation calculation
Hard body radius [and method used for calculation]	The hard body radius should be calculated using a standard method; The method chosen should be specified. If the Hard Body Radius changes over the lifespan of the spacecraft (due to a deployment, for example), this value should be updated.	OPEN	Necessary for calculation of Pc

Conjunction mitigation capabilities (check all that apply): chemical propulsion, electric propulsion, differential drag, object re-orientation, none	Which types of conjunction mitigation capabilities does the organization have the ability to implement for this spacecraft?	OPEN	Helpful for coordination
Expected operational mission lifetime (at launch)?	What is the expected operational lifespan of the spacecraft? This can be the value estimated at launch.	OPEN	Helpful for coordination
Estimated total time on orbit	What is the total expected time in orbit (including time in orbit after operations have ceased)? i.e. The period of time from launch until the object expected to deorbit?	OPEN	Helpful for coordination
Launch Provider	Name of the organization providing the launch (e.g. SpaceX, Arianespace, etc.)	OPEN	Necessary for identification/ catalog maintanence
Launch Vehicle	Name of the vehicle providing the launch (e.g. Falcon 9, Ariane 6, etc.)	OPEN	Necessary for identification/ catalog maintanence
Launch Location	Spaceport used for launch, including spaceport name and country [Drop-down menu]	OPEN	Needed for UN Registration [This should be a dropdown menu with an "other" option - match UN registry values]
Launch Date	If not yet launched, provide the current schedule or best estimate. After launch, the date should be updated to reflect the actual launch date.	OPEN	Necessary for identification/ UN Registration

Deployment date (if different than launch date)	If the deployment date is different than the launch date, the deployment date should be given. If not yet deployed, provide the current schedule or best estimate. After deployment, the date should be updated to reflect the actual deployment date.	OPEN	Necessary for identification/ catalog maintanence
Will anything be deployed from it (anything to change its shape)?	If yes, you can also provide additional explanation and/or upload drawings or other information)	OPEN	Necessary for identification/ catalog maintanence
Launch Name or Primary Payload	If part of a rideshare, what is the primary payload and/or name of the launch, if any?	OPEN	Necessary for identification/ catalog maintanence
Planned Orbit (initial and final if there will be an orbit change)	Provide the nodal period, apogee (km), perigee (km), and inclination (deg). If there will be a secondary orbit change, such as with a space tug, give the method of the change and both initial and final orbits.	OPEN	Needed for UN Registration [This should be a dropdown menu with an "other" option - match UN registry values]
General Function	The general function of the spacecraft. Choose from: -spacecraft engaged in investigation of spaceflight techniques and technology -spacecraft engaged in research and exploration of the upper atmosphere or outer space -spacecraft engaged in practical applications and uses of space technology such as weather or communications -spent boosters, spent maneuvering stage, shrouds and other non-functional objects -reusable space transportation systems	OPEN	Needed for UN Registration

Object Type [Automatically filled to Payload]	Automatically set to "Payload" (Following https://sanaregistry.org/r/object_types/)	OPEN	Necessary for safety calculation
Operational notification contact (name and phone number(s))	This is the contact that should be used for routine and/or time-sensitive operational issues (e.g. coordinating on mitigation of a high risk conjunction)	Not Open	Necessary for safety
OPERATIONAL Spacecraft Information and Attributes	This is information about the spacecraft collected on a regular basis, not during registration.		
O/o ephemerides with covariance and maneuver plans	OCM File	OPEN	
Maneuver Plans	OCM File	OPEN	
Candidate maneuvers	OCM File	Not OPEN	
Operational Status	Field within the OCM (According to: https://sanaregistry.org/r/operational_status/ + in-transit, etc.)	OPEN	Helpful for coordination

National Government Registration/ Data Provision

Organizational Information	This is information collected about the organization when registering in TraCSS. Entities should keep this information up to date.	Open Data?	Reason for collection
Organizational contact information:			
Country name	Name of the country registering [Drop-down menu]	OPEN	Necessary for identification
Organization name	Name of the government organization registering on TraCSS (Group admin organizational)	OPEN	Necessary for identification

Primary Contact information – position title, email, phone number	The primary representative for the organization's admin account has the ability to edit account information and to add/ remove other organizational users. This is the individual that would be contacted with any general inquiries for the organization (not emergency issues).	Not Open	Necessary for identification
Additional organizational users (names, email addresses, phone numbers)	These are additional users that the admin adds to the account, including additional admins or other users. They could include indivdiuals from other government offices and/or government contractors. The admin has responsibility for validating and maintaining user access and ensuring users abide by the user agreement.	Not Open	Necessary for identification

List of relevant spacecraft	Countries can provide a list of spacecraft affiliated with their nation under the following categories.		
Spacecraft owned/ operated by organizations headquartered in your country	Spacecraft operated by organizations headquartered in the country. (Provide spacecraft name, NORAD ID/ International Designator, and spacecraft organization name)	OPEN	Necessary for determining country affiliation
Country of launch license	List of satellites for which your country provided a launch license. (Include spacecraft name and NORAD ID/ International Designator.)	OPEN	Necessary for determining country affiliation
Country providing communications license	List of satellites for which your country provided a license to operate (communications license). (Include spacecraft name and NORAD ID/ International Designator.)	OPEN	Necessary for determining country affiliation
Country providing remote sensing/ novel activities license	List of satellites for which your country provided a remote sensing (or novel activities)? [If applicable] (Include spacecraft name and NORAD ID/ International Designator.)	OPEN	Necessary for determining country affiliation
Spacecraft registered by your nation with the UN Registry	Spacecraft registered by your nation in the UN Registry. (Include spacecraft name and NORAD ID/ International Designator.)	OPEN	Necessary for determining country affiliation