

# How-To Owner/Operator TraCSS Satellite File

This guide explains how to complete the Owner/Operator TraCSS Satellite File for claiming satellites as a Satellite Owner/Operator Admin. Relevant FAQs can be found at the end of the guide.

## General Guidelines

It is recommended to start with the Owner/Operator TraCSS Satellite File Template provided at time of upload. You should rename this file to match the following file naming convention: OrganizationName\_Sats\_YYYY-MM-DD.csv with the date reflecting the current calendar day. The template contains the necessary header row of information to be provided. For each satellite you own or maintain the legal authority to operate, create a new row within the file and provide the requested information. For more context on the meaning of a field or the reason for collection, please refer to the "Spacecraft Information and Attributes" table within the provided TraCSS Data Policy. Your Owner/Operator TraCSS Satellite File will be validated after upload to ensure the minimum required fields, NORAD ID and Satellite Name, are completed for each satellite and formatting guidelines are met for all completed fields.

For details on the data types and allowed values for each field within the Owner/Operator TraCSS Satellite File, see the specification table below. Fields with a data type of "Enumerated Value" should be populated with one of the options provided. It is strongly encouraged to complete all fields within the Owner/Operator TraCSS Satellite File with known information pertaining to the satellites you are claiming at the time of registration. However, if fields are left incomplete, they should be updated following account approval in a timely manner by submitting a new Owner/Operator TraCSS Satellite File with the most current data. Any fields you choose not to provide should be left blank and remain denoted in the comma separated fashion. For example, a satellite with no alternate names would show:

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satelliteName,alternateNames,noradID,...  
My Sat Name,,12345,...
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# TraCSS Satellite File Specification

Field Name	Data Type Restrictions	Allowed Values & Further Details
satelliteName	String	Any
alternateNames	Semi-colon separated list of Strings	Any Example: sat1;sat2;sat3
noradId	Integer	Any
InternationalDesignator	String	Any Format: YYYY-NNNP{PP} Example: 2025-002A
countryOfHeadquarters	String	Any Format: <a href="#">Alpha-3 Code</a>
countryOfLaunchLicense	String	Any Format: <a href="#">Alpha-3 Code</a>
countryProviding CommunicationsLicense	String	Any Format: <a href="#">Alpha-3 Code</a>
countryProviding RemoteSensingOrNovel ActivitiesLicense	String	Any Format: <a href="#">Alpha-3 Code</a>
countryOfUNRegistry	String	Any Format: <a href="#">Alpha-3 Code</a>

constellation	String	Any Example: Starlink
operationalStatus	Enumerated Value	BACKUP_STORAGE_STANDBY, DECAYED, DEGRADED_OPERATIONS, EXTENDED_MISSION, UNKNOWN, REENTRY_MODE, NONOPERATIONAL, OPERATIONAL_MANEUVERABLE, OPERATIONAL_NONMANEUVERABLE Definitions: <a href="#">CCSDS Operational Status</a>

Field Name	Data Type	Allowed Values & Further Details
orbitCategory	Enumerated Value	GEO, GSO, GTO, HELIOCENTRIC, HEO, INTERPLANETARY, LEO, PLANETARY, <P1>_<P2>_<N>, LUNAR, MEO, OTHER Definitions: <a href="#">CCSDS Orbit Categories</a>
wetMass	Double	Any Units: Kilograms Example: 1000.344
hardBodyRadius	Double	Any Units: Meters Example: 3.392
hardBodyRadius	String	Any Example: Circumscribing Sphere

CalculationMethod		
conjunctionMitigation Capabilities	Semi-colon separated list of Enumerated Values	chemical propulsion, electric propulsion, differential drag, object reorientation, none
expectedOperational MissionLifetime	Double	Any Units: Years Example: 12.4
estimatedTotalTime OnOrbit	Double	Any Units: Years Example: 12.6
launchProvider	String	Any
launchVehicle	String	Any
launchSite	String	Any matching the <a href="#">UN global launch locations</a> or "OTHER" Example: Woomera Australia Note: Exclude commas from name

launchDate	Date	Any Format: YYYY-MM-DD Example: 2025-01-26
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Field Name	Data Type	Allowed Values & Further Details
deploymentDate	Date	Any Format: YYYY-MM-DD Example: 2025-01-27  Note: Only required if different than launch date
additionalDeployments	Enumerated Value	YES, NO Note: Used to identify Orbital Transfer Vehicles (OTVs)
launchName	String	Any
plannedOrbit	Semi-color separated list of Doubles	Note: Initial and final orbits should be provided if there is a planned change

		<p>Units:</p> <p>Nodal Period, min</p> <p>Apogee &amp; Perigee, km</p> <p>Inclination, deg</p> <p>Initial Only Format:</p> <p>nodalPeriod;apogee;perigee;inclination</p> <p>Initial &amp; Final Format:</p> <p>nodalPeriod1;apogee1;perigee1; inclination1;nodalPeriod2;apogee2; perigee2;inclination2</p>
generalFunction	Semi-colon separated list of Enumerated Values	<p>Choose From:</p> <ul style="list-style-type: none"> <li>• spacecraft engaged in investigation of spaceflight techniques and technology</li> <li>• spacecraft engaged in research and exploration of the upper atmosphere or outer space</li> <li>• spacecraft engaged in practical applications and uses of space technology such as weather or communications</li> <li>• spent boosters, spent maneuvering stage, shrouds and other non-functional objects</li> <li>• reusable space transportation systems</li> </ul>

Field Name	Data Type	Allowed Values & Further Details
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objectType	Enumerated Value	Debris, Payload, Rocket Body, Unknown, Other Note: Defaults to Payload if left blank
contactInfo	Semi-Colon separated list of Strings	Any Format: First;Last;Phone;Email Multiple Phone/Email Format: First;Last;Phone;Phone;Email;Email

## FAQs

### Why are certain fields deemed necessary?

For more context on the meaning of a field or the reason for collection, please refer to the "Spacecraft Information and Attributes" table within the TraCSS Data Policy.

### Why is my file failing the validation checks?

Your file is being tested for compliance for all completed fields. At a minimum, the two required fields to submit a Owner/Operator TraCSS Satellite File are Satellite Name and NORAD ID. Any additional fields that are completed will be tested for compliance in addition to these two required fields. Please refer to the error messages provided after a submission attempt for guidance on updating your Owner/Operator TraCSS Satellite File to meet compliance requirements.

### Will the contact information provided be made publicly available?

No, the operational contact information for a satellite will not be made open data. Use and redistribution of this information is outlined within the TraCSS Data Policy.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-XXXX. Without this approval, we

could not conduct this information collection. Public reporting for this information collection is estimated to be approximately 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the NODC Data Officer, SSMC3, 4th Floor, E/OC, 1315 East West Highway, Silver Spring, MD 20910.

### Privacy Act Statement

**Authority:** The collection of this information is authorized under 5 U.S.C. § 301, Departmental regulations which authorizes the operations of an executive agency, including the creation, custodianship, maintenance and distribution of records, and 15 U.S.C. 1512, Powers and duties of Department.

**Purpose:** NOAA collects limited information, such as name, address, phone number, or email address for a variety of purposes. This information will be used to respond to user inquiries or provide services requested by the user.

**Routine Uses:** Disclosure of this information is permitted under the Privacy Act of 1974 (5 U.S.C. Section 552a) to be shared among Department staff for work-related purposes. Disclosure of this information is also subject to all of the published routine uses as identified in the Privacy Act System of Records Notice COMMERCE/NOAA-11, Contact Information for Members of the Public Requesting or Providing Information Related to NOAA's Mission.

**Disclosure:** Furnishing this information is voluntary. By providing this information, you are consenting to the use of that information only for the purpose for which it is submitted.