




# Questions & Comments on SANA registry for Service Sites and Apertures

Aug. 2021  
JAXA

# Questions & Comments on SS&A Registry

- New SANA authorization framework has been implemented, and CMC assigned ARs to update Agency asset information in at least the SS&A registry.
- JAXA initiated fulfilling registry, while, we encountered some issues/questions in designating some items as follows;
  - Question1:  
Do we need longitude/latitude/elevation information for the site?  
If necessary, can they be represented by any one of the antenna info?  *See slide 3, 5*
  - Comment1:  
Multiple selection should be enabled because we can select only one of these functions.  
(for SLE services, JAXA supports SLE F-CLTU, SLE R-AF, and SLE R-CF)  *See slide 4, 5*
  - Comment2:  
Designation of these items (SLE, CSTS, GFT, ...) are not common to all antennas(links).  *See slide 4, 5*  
These need to be designated for each antenna.

### Service Site and Aperture

<b>Name</b>	<input type="text" value="Katsuura"/>
<b>Abbreviation*</b>	<input type="text" value="Katsuura"/>
<b>Aliases</b>	<input type="text"/> <small>Comma separated (no spaces) list of any valid alpha-numeric</small>
<b>Network Name</b>	<input type="text" value="Katsuura"/>
<b>Requestor</b>	<input type="text" value="Mr. Tsutomu Shigeta [1.3.112.4.2.16]"/>
<b>Owner</b>	<input type="text" value="Japan Aerospace Exploration Agency [1.3.112.4.1.14]"/>
<b>Operator</b>	<input type="text" value="Japan Aerospace Exploration Agency [1.3.112.4.1.14]"/>
<b>PoC</b>	<input type="text" value="Mr. Tsutomu Shigeta [1.3.112.4.2.16]"/>
<b>Location Type</b>	<input type="text" value="Surface"/>

### Surface

<b>Planetary Body</b>	<input type="text" value="Earth"/>
<b>Country</b>	<input type="text" value="Japan"/>
<b>City</b>	<input type="text" value="Katsuura"/>
<b>State/Region</b>	<input type="text" value="Chiba"/>
<b>Longitude</b>	<input type="text" value="+68°19'05.518"/>
<b>Latitude</b>	<input type="text" value="+68°19'05.518"/>
<b>Elevation</b>	<input type="text"/>

m

**Q1:** Do we need longitude/latitude/elevation information for the site? If necessary, can they be represented by any one of the antenna info?

# Site Service Information

URN	<input type="text"/>
SLE Services	SLE F-CLTU <div style="border: 1px solid black; padding: 2px; display: inline-block;">             SLE F-CLTU              SLE R-AF              SLE R-CF              SLE-EF-CLTU           </div>
CSTS Services	TD-CSTS <div style="border: 1px solid black; padding: 2px; display: inline-block;">             MD-CSTS              TD-CSTS              FF-CSTS              SC-CSTS           </div>
GFT Services	Randometric offline <div style="border: 1px solid black; padding: 2px; display: inline-block;">             Randometric offline              Fwd/Ret File              D-DOR RDEF           </div>
Data Services	Orbit determination <div style="border: 1px solid black; padding: 2px; display: inline-block;">             Orbit determination              Collision assessment              Weather              Validated Radiometric           </div>
Network/Relay Services	Data Relay (S&F) <div style="border: 1px solid black; padding: 2px; display: inline-block;">             Data Relay(S&amp;F)              Space Internetworking / DTN              Space Internetworking / IP           </div>
Service Management	Scheduling <div style="border: 1px solid black; padding: 2px; display: inline-block;">             Planning              Scheduling              Accountability           </div>
Schedule publication	<div style="border: 1px solid black; height: 150px;"></div>
Service PoC	Japan Aerospace Exploration Agency [1.3.112.4.1.14] x ▾
Service Affiliation	Japan Aerospace Exploration Agency [1.3.112.4.1.14] ▾

**C1:** Multiple selection should be enabled because only one of these can be selected.

**C2:** Designation of these items (SLE, CSTS, GFT, ...) are not common to all antennas(links). These need to be designated for each antenna.

As one example of Katsuura site, we have three antennas of S/S 10m, S/S 13m, S/S/X 20m. SLE services are implemented for the 10m and 13m antennas but not for 20m antenna.

Service Site and Aperture	Service site									Status	OID
	Name	Abbreviation	Aliases	Network Name	Requestor	Owner	Operator	Poc	Location Type		
	Katsuura	Katsuura		Katsuura	Mr. Tsutomu Shigeta	JAXA	JAXA	Mr. Tsutomu Shigeta	Surface		
	Surface										
	Planetary Body	Country	City	State/Region	Longitude	Latitude	Elevation				
Earth	Japan	Katsuura	Chiba								
Site Service Information											
URN	SLE Services	CSTS Services	GFT Services	Data Services	Network/Relay Services	Service Management	Service PoC	Service Affiliation			
							Mr. Tsutomu Shigeta	JAXA			

**Q1:** Do we need this information?  
Can be represented by any one of the antenna info?

**C2:** Designation of these functions are not common to all antennas(links)

**C1:** Multiple selection should be enabled because only one of these can be selected.

Apertures	Links	Apertures				Surface							Apertures				
		Name	Abbreviation	Aliases	Location Type	Planetary Body	Country	City	State/Region	Longitude	Latitude	Elevation	Diameter	Aperture type	Pointing constraints	Available Services	Mission type
		KTU1	KTU1		Surface	Earth	Japan	Katsuura	Chiba	140.3006	35.2089	227.8	10.0	AZ/EL			
		Return link							Forward link								
		Frequency Band	Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies	Frequency Band	Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies
	S-band	Return	--	44.2	22.5		R/L	2200-2300	S-band	Forward	71	--	--		R or L	2025-2120	
	Links	Apertures				Surface							Apertures				
		Name	Abbreviation	Aliases	Location Type	Planetary Body	Country	City	State/Region	Longitude	Latitude	Elevation	Diameter	Aperture type	Pointing constraints	Available Services	Mission type
		KTU2	KTU2		Surface	Earth	Japan	Katsuura	Chiba	140.2997	35.2058	156.0	13.0	AZ/EL			
		Return link							Forward link								
Frequency Band		Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies	Frequency Band	Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies	
S-band	Return	--	45.3	23.0		R/L	2200-2300	S-band	Forward	73.4	--	--		R or L	2025-2120		
Links	Apertures				Surface							Apertures					
	Name	Abbreviation	Aliases	Location Type	Planetary Body	Country	City	State/Region	Longitude	Latitude	Elevation	Diameter	Aperture type	Pointing constraints	Available Services	Mission type	
	KTU4	KTU4		Surface	Earth	Japan	Katsuura	Chiba	140.3006	35.2106	20.0	20.0	AZ/EL				
	Return link							Forward link									
	Frequency Band	Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies	Frequency Band	Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies	
S-band	Return	--	49.3	27.7		R/L	2200-2300	S-band	Forward	77.7	--	--		R or L	2025-2120		
Return link							Forward link										
Frequency Band	Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies	Frequency Band	Link Type*	EIRP	Gain	G/T	Max Data Rate	Polarization	Frequencies		
X-band	Return	--	61.5	39		R/L	8025-8500	--	--	--	--	--	--	--	--		

**Note.** JAXA prepared this spreadsheet for collecting necessary information of each site/antenna before fulfilling registry.