Request for new and modified SANA Registries from the SLS-SLP WG

June 17, 2016

Greg Kazz – Chairman SLP WG

I. **New Registry Requests**

1. USLP Protocol Identifier (UPID)

Rational: This new registry will have the same type of structure as other Protocol IDs in CCSDS. It is a unique ID to USLP and therefore it cannot share the name space of an existing protocol ID within the existing SANA registries.

Description: It identifies the CCSDS data link layer recognized Protocol or data contained within the USLP Transfer Frame Data Zone. It is a 5 bit mandatory field in the USLP Transfer Frame Data Field Header.

Registration Policy

[CCSDSBlue](http://sanaregistry.org/keywords/CCSDSBlue.html)

Review authority

[SLS-SLP](http://cwe.ccsds.org/sls/default.aspx#_SLS-SLP)

Reference

CCSDS 732.1-R-1

Data Type - Integer

| **Protocol Identifier http://sanaregistry.org/r/_support/sort_none.gif** | **Description http://sanaregistry.org/r/_support/sort_none.gif** | **Status http://sanaregistry.org/r/_support/sort_none.gif** | **Reference http://sanaregistry.org/r/_support/sort_none.gif** |
| --- | --- | --- | --- |
| 00000 | COP-1 directives |  | [CCSDS 232.1-B-2](http://public.ccsds.org/publications/archive/232x1b2.pdf" \t "_blank) |
| 00001 | COP-P directives |  | [CCSDS 211.0-B-5](http://public.ccsds.org/publications/archive/211x0b5.pdf" \t "_blank) |
| 00010 | SDLS directives |  | SDLS Extended Procedures - TBD |
| 00011 | User-defined Stream Data | Unassigned |  |
| 00100 | Mission Unique directives | Unassigned |  |
| 00101 | Idle Octets | [Unassigned](http://sanaregistry.org/keywords/Unassigned.html) |  |
| 11111 | Extended Protocol ID for USLP |  | SANA registry *USLP\_Ext – TBD* |

2. USLP Extended Protocol ID (UPID\_Ext)

Rational: This new registry will have the same type of structure as other Protocol IDs in CCSDS e.g., Encapsulation Service. It is a unique ID to USLP and therefore it cannot share the name space of an existing protocol ID within the existing SANA registries.

Description: It identifies the CCSDS data link layer recognized Protocol or data contained within the USLP Transfer Frame Data Zone. It is an 8 bit optional field in the USLP Transfer Frame Data Field Header.

Registration Policy

[CCSDSBlue](http://sanaregistry.org/keywords/CCSDSBlue.html)

Review authority

[SLS-SLP](http://cwe.ccsds.org/sls/default.aspx#_SLS-SLP)

Reference

CCSDS 732.1-R-1

Data Type - Integer

| **Protocol Identifier http://sanaregistry.org/r/_support/sort_none.gif** | **Status http://sanaregistry.org/r/_support/sort_none.gif** | **Reference http://sanaregistry.org/r/_support/sort_none.gif** |
| --- | --- | --- |
| 00000000-11111111 | [Unassigned](http://sanaregistry.org/keywords/Unassigned.html) |  |

**II. Modified Registries**

1. CCSDS Abbreviations

Add:

Abbreviation: USLP – Unified Space Data Link Protocol]

Reference: CCSDS 732.1-R-1

1. CCSDS Terms

Add:

Isochronous: characterized by occurring at equal intervals of time.

1. MAP ID

For TFVN = 4, the MAP ID is constrained to values ‘0000’ – ‘1111’

1. Spacecraft Identifier

NOTE: Version 4 (VN = 1100); SCID = 16 bits; GSCID = VN.SCID = 20 bits;

Version 4 Range: SCID = [0x0000 – 0xFFFF]; GSCID = [C0000 - CFFFF]

1. Transfer Frame Version Number

Version Number = ‘1100’; Transfer Frame = USLP Version 4; Reference = CCSDS 732.1-R-1

1. Space Link Identifiers Registry

Add new registries under Space Link Identifiers for a) UPID and b) UPID\_Ext

NOTE – There exists two mistakes in the Space Link Identifiers Registry agnostic to the USLP. Please fix the following two names to be consistent with the existing registries. They are:

* 1. From “Extended Protocol Identifier” to ““Extended Protocol Identifier for Encapsulation Service”
  2. From “Protocol Identifier” to ““Protocol Identifier for Encapsulation Service”

If you make those two changes, then the existing registries and the Space Link Identifiers Registry will be consistent.

1. VCID

Add USLP Protocol to this registry:

VCID = 000000 – 111111

Status: Unmanaged

Reference: 732.1-R-1