

Reserved APIDs in SPP

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Version 1.0

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Reserved SPP APIDs in SANA

https://sanaregistry.org/r/space_packet_protocol_application_process_id

Space Packet Protocol Application Process Identifier(APID)

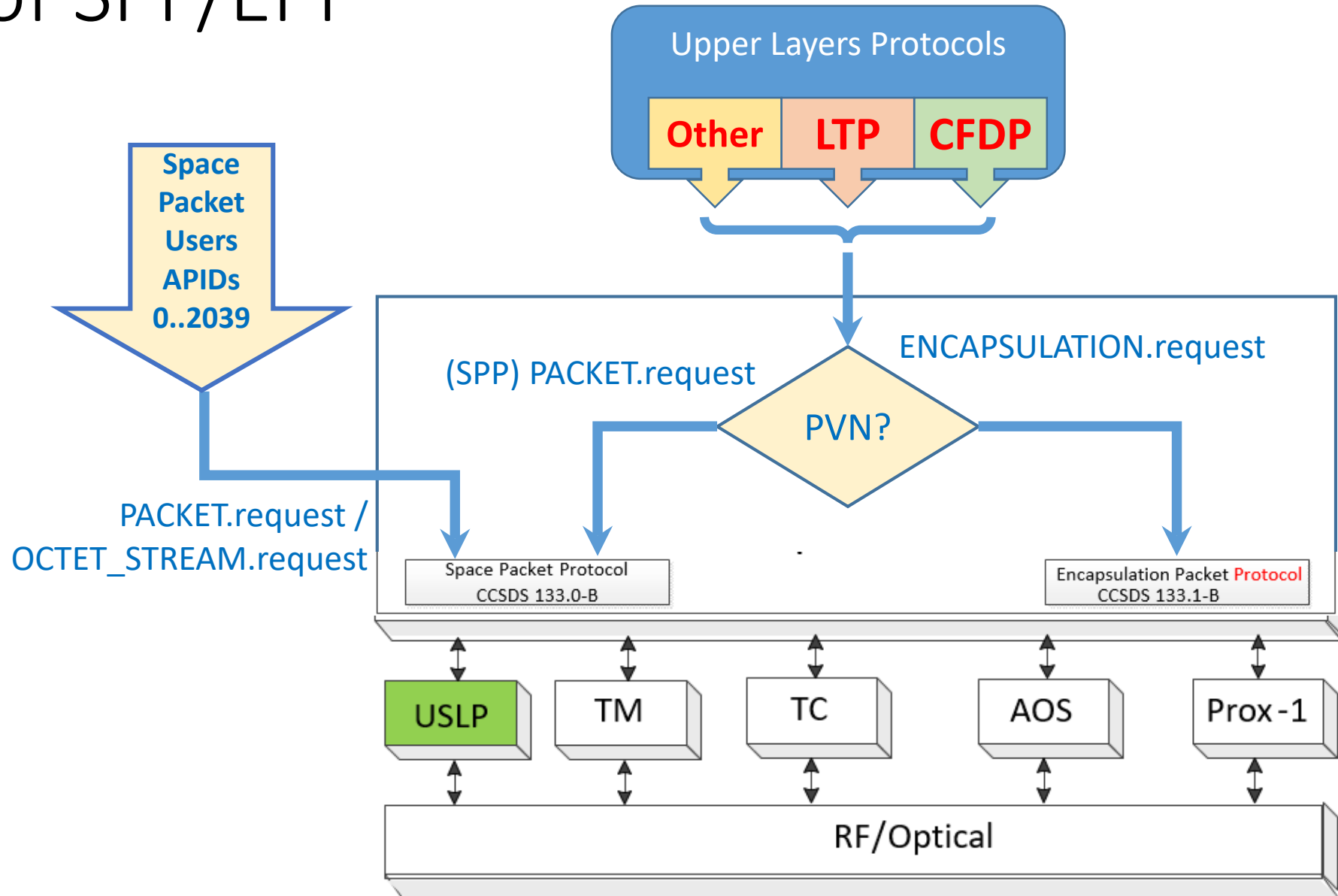
ils	Status	APID	Utilization	References
etails	Unmanaged	0 - 2039	—	
etails	Unassigned	2040 - 2043	—	[ccsds-135.0-B-4]
etails	Provisional	2044	LTP over space packets	[ccsds-734.1]
etails	Provisional	2045	CFDP	[ccsds-727.0-B-4]
etails	Returned	2046	—	
etails	Provisional	2047	Idle Packet	[ccsds-133.0-B-1]

Why not a Reserved APID for BP

- There is a reserved APID for LTP but not for BP
- BP has a reserved protocol id for Encapsulation Packets, why not for Space Packets?
- Transmitting bundles in Space Packets make sense as much as transmitting bundles in Encapsulation Packets and actually BP is one of “upper layers protocols” addressed by the Encapsulation Service (over SP or over EP)
- Then it looks reasonable to reserve an APID for BP, but...
- ... Greg proposes: **delete all reserved APIDs (except Idle Packet of course) and make encapsulation of “upper layers protocols” managed”**.

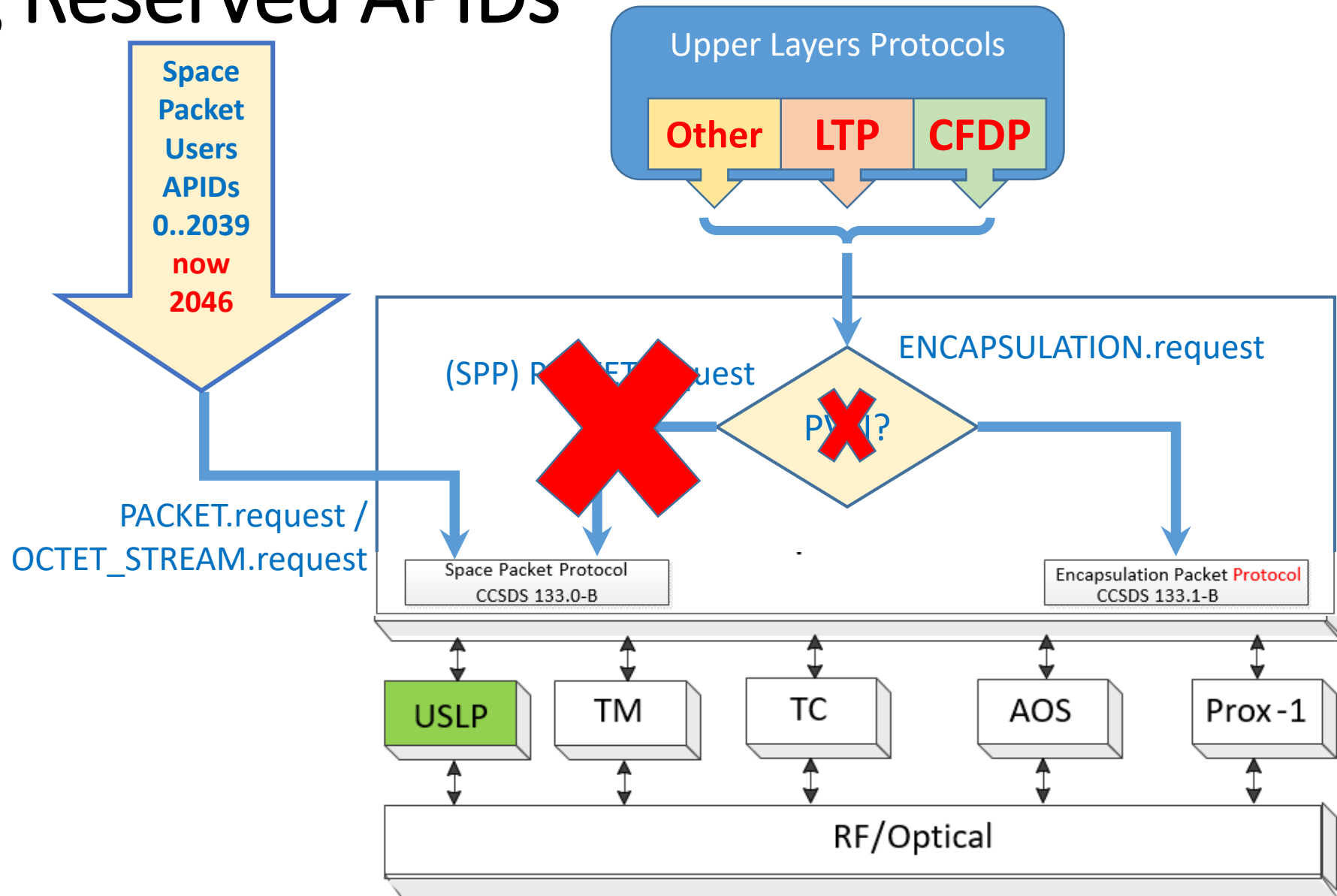
Location of SPP/EPP

1st role = application layer data structure
2nd role = shim protocol that encapsulates application layer PDUs



Removing Reserved APIDs

SP becomes decoupled from EP (and Encapsulation Service) → Changes in Encapsulation Service Blue Book are then needed to expunge SPP



Questions to SLP Members

- Did your Agency make use of reserved APIDs in SPP?
- Deleting reserved APIDs in SPP causes any negative effect on your Agency Missions?
- Are you in favor of removing reserved APIDs from SPP?
- With which exceptions (more than Idle Packets)?
- **ACTION to SLP WG Members?**

END