It shall be mentioned that COP-1 Managed Parameters are defined in CCSDS 232.1-B-2: RECOMMENDED STANDARD FOR COMMUNICATIONS OPERATION PROCEDURE-1

1.1 MANAGED PARAMETERS FOR A PHYSICAL CHANNEL

Table 5-1 lists the managed parameters associated with a Physical Channel.

Table 5-1: Managed Parameters for a Physical Channel

Managed Parameter	Allowed Values	
Physical Channel Name TM + TC + AOS	Character String	
Frame Length Type – New USLP	Fixed (allowed with TM, SCCC, DVB-S2 coding), Variable (allowed with TC, Proximity-1 coding)	
Maximum Transfer Frame Length (octets) TM (without Maximum) + TC + AOS (without Maximum)	Integer (to be intended as fixed length with TM, SCCC, DVB-S2 coding, and as Maximum Length with TC, Proximity-1 coding)	
Transfer Frame Version Number TM + TC + AOS	'1100' binary	
Valid Spacecraft IDs TM + TC + AOS	Set of Integers	
MC Multiplexing Scheme TM + TC + AOS	Mission Specific	
Presence of Insert Zone AOS	Present, Absent	
Insert Zone Length (octets) AOS	Integer	
Presence of Frame Error Control TM + TC + AOS	Present, Absent	
Frame Error Control Length (octets) New USLP	2 or 4	
Maximum Number of Transfer Frames Given to the Coding Sublayer as a Single Data Unit TC	Integer (allowed only with TC coding if several frames for CLTU are allowed)	

Maximum value for the Repetitions parameter to the Coding Sublayer TC	Integer (allowed only with TC coding)
Not imported from TC: • TC / Maximum Bit Rate Accepted by the Coding Sublayer = Real number/second (for COP Timers?) Not imported from AOS: • AOS / Presence of Frame Header Error Control = Present, Absent	

1.2 MANAGED PARAMETERS FOR A MASTER CHANNEL

Table 5-2 lists the managed parameters associated with a Master Channel.

Table 5-2: Managed Parameters for a Master Channel

	Managed Parameter	Allowed Values
Maxi 1024	imum Transfer Frame Length (octets) TC (up to	Integer (allowed with TC, and Proximity-1 coding)
Space	cecraft ID TM + TC + AOS	Integer
	d VCIDs TM (with shorter range) + TC (with no ation for value 63) + AOS	Selectable Set of Integers (from 0 to 62) (in addition to VCID 63)
VC N	Multiplexing Scheme TM + TC	Mission Specific
NOT	ES	
1	The value of the Transfer Frame Version Number Frames on a Physical Channel. TM + AOS	r is the same for all Transfer
2	For VCID the binary value of 'all ones' (i.e., 63) is for OID Transfer Frames by 4.1.4.1.9; i.e., the nu includes value 63 and the Selectable Set of Intege	mber of Valid VCIDs always
Not i	mported from TM: TM / Presence of MC_FSH TM / MC_FSH Length (if present) (octets) TM / Presence of MC_OCF	

1.3 MANAGED PARAMETERS FOR A VIRTUAL CHANNEL

Table 5-3 lists the managed parameters associated with a Virtual Channel.

Table 5-3: Managed Parameters for a Virtual Channel

Managed Parameter	Allowed Values	
Maximum Transfer Frame Length (octets) TC (up to 1024)	Integer (allowed with TC, and Proximity-1 coding)	Comment [GPC3]: Is the limit the sky?
Spacecraft ID TM + TC + AOS	Integer	Comment [GPC4]: IMO This parameter
VCID TM (with shorter range) + TC (63 not reserved) + AOS	0, 1,, 62 (63 reserved)	should be the first one of this table.
COP in Effect TC (only 1)	1, P, NONE	
CLCW Version Number TC (only 1)	1	
Valid MAP IDs (if Segment Header is present) TC (up to 63)	Set of integers (from 0 to 31)	Comment [GPC5]: Funny remark considering that the managed parameter "Presence of Segment Header" has not been
MAP Multiplexing Scheme (if Segment Header is present) TC	Mission Specific	Comment [GPC6]: Funny remark considering that the managed parameter "Presence of Segment Header" has not been imported. ©
Maximum TFDF Length New USLP	Integer Fixed (allowed with TM, SCCC, DVB-S2 coding), Variable (allowed with TC, Proximity-1 coding)	
Value for the Repetitions parameter to the Coding Sublayer when transferring frames carrying service data on the Sequence-Controlled Service TC	Integer	
Value for the Repetitions parameter to the Coding Sublayer when transferring frames carrying COP control commands TC	Integer	
NOTES		
1 The value of the Transfer Frame Version Number Frames on a Physical Channel. TM + TC + AOS	is the same for all Transfer	
2 VCID value 63 (i.e., the binary 'all ones') is reserved by 4.1.4.1.9. AOS	ed for OID Transfer Frames	

Not imported from TM:

- TM / Data Field Content = Packets, VCA_SDU
- TM / Presence of VC_FSH = Present, Absent
- TM / VC_FSH Length (if present) (octets) = Integer
- TM / Presence of VC OCF = Present, Absent

Not imported from TC:

- TC / CLCW Reporting Rate = Real number/Second (for COP Timers?)
- TC / Presence of Segment Header = Present, Absent
- TC / Data Field Content (if Segment Header is absent) = Packets, VCA_SDU
- TC / Blocking (if Segment Header is absent and Data Field Content is Packets) = Permitted, Prohibited

Not imported from AOS:

- AOS / Data Field Content = M PDU, B PDU, VCA SDU, Idle Data
- Presence of VC_OCF = Present, Absent

1.4 MANAGED PARAMETERS FOR A MAP CHANNEL

The managed parameters associated with a MAP Channel shall conform to the definitions in table 5-4.

Table 5-4: Managed Parameters for a MAP Channel

Managed Parameter	Allowed Values
Maximum Transfer Frame Length (octets) TC (up to 1019)	Integer (allowed with TC, and Proximity-1 coding)
Spacecraft ID TC	Integer
VCID TC	0, 1,, 63
MAP ID TC	0, 1,, 63

NOTE – The value of the Transfer Frame Version Number is the same for all Transfer Frames on a Physical Channel. TC

Not imported from TC:

- TC / Data Field Content = Packets, MAP_SDU
- TC / Blocking (if Data Field Content is Packets) = Permitted, Prohibited
- TC / Segmentation = Permitted, Prohibited
- TC / Maximum MAP_SDU Length (octet) (if the MAP permits Segmentation) = Integer

1.5 MANAGED PARAMETERS FOR PACKET TRANSFER

Table 5-4 lists the managed parameters associated with a Virtual Channel used for the Virtual Channel Packet Service.

Comment [GPC7]: Is the limit the sky? \odot

Comment [GPC8]: I know that this the sequence in TC but
IMO This parameter should be the first one of this table.

Comment [GPC9]: In the previous table Valid MAP IDs is up to 31.

Table 5-5: Managed Parameters for Packet Transfer

Managed Parameter	Allowed Values
Valid Packet Version Numbers TM + TC + AOS	Set of Integers selected
	from reference [6] for TM / [5] for TC
Maximum Packet Length (octets) TM + TC + AOS	Integer
Protocol IDs Supported New USLP (but anyway to be in dedicated PID service)	Set of Integers
Whether incomplete Packets are required to be delivered to the user at the receiving end TM + TC + AOS	Required, Not required