

- a) Opcode. The opcode for the GATE MPCPDU is 0x00-12.
- b) Channel Assignment: This 8-bit flag register, where bits 0-3 contain a bitmap representing the wavelength channel(s) on which to transmit or during the assigned transmission slot. Bits 4-7 are reserved. Table 144-1 shows the mapping between individual bits and ~~wavelength-upstream~~ channels.

Table 144-1: GATE MPCPDU Channel Assignment flag register values

Bit	Channel field	Values
0	Wavelength-Upstream channel 1	0 – do not use wavelength-upstream channel 1 for transmission 1 – use upstream wavelength -channel 1 for transmission
1	Upstream Wavelength channel 2	0 – do not use upstream wavelength -channel 2 for transmission 1 – use upstream wavelength -channel 2 for transmission
2	Upstream Wavelength channel 3	0 – do not use upstream wavelength -channel 3 for transmission 1 – use upstream wavelength -channel 3 for transmission
3	Upstream Wavelength channel 4	0 – do not use upstream wavelength -channel 4 for transmission 1 – use upstream wavelength -channel 4 for transmission
4-7	Reserved	Reserved

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- c) Grant Start Time: This 32-bit unsigned integer value represents the start time of the transmission grant. The start time is compared to the local clock, to correlate the start of the grant.
- d) LLID #n: This ~~1624~~ bit unsigned integer value represents the logical link that is being granted a transmissions lot.
- e) Grant #n Length: This ~~3423~~-bit unsigned value represents the length of the grant assigned to LLID #n. The length of the granted transmission slot is expressed in the units of 1 time_quantum. Up to 7 grants may be packed into a single GATE MPCPDU. All transmission overhead components (TBD) are included in and thus consume part of the granted transmission slot.
- f) Fragmentation Flag. ~~When set (the binary value of 1), the given grant may use fragmentation. When reset (the binary value of 0), the given grant must not use fragmentation.-(TBD)~~
- g) Pad/Reserved. This is an empty field that is transmitted as zeros, and ignored on reception. The size of this field depends on the used *Grant #n Length/LLID* entry-pairs as well as the presence of any optional fields, and varies in length from 0-30 accordingly.