

















Lic.Tech. Marko Luoma (30/68)

(Euro) DOCSIS

- Framing is based on Ethernet framing but within the HFC network separate framing is used for data communication
 - Downlink: TDM based MPEG-2 frames
 - Uplink: TDMA based minislots

IEEE 802.2		
DOCSIS MAC		
TDMA MiniSlot	TDM MPEG	
5-65 MHz	8MHz Channels 🚽	
HFC		



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- Uplink framing is based on timely division of link capacity for different subscribers
 - Similar than PDH
 - Individual time-slot 6.25 us
 - Amount of bytes depends on modulation and coding
 - Required amount of time-slots is requested from CMTS to send data
 - Length of sync field depends on physical transmission rate
 - Data is normal Ethernet frame

Sync Header	Data	FEC
(x bytes) (6 bytes)	(18-1518 bytes)	(x bytes)



















