



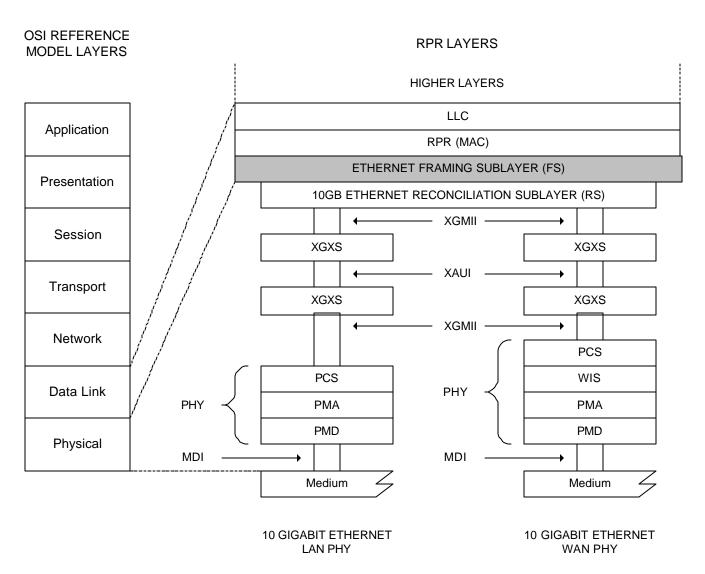
RPR MAC Reference Model

Adisak Mekkittikul,



OSI Reference Model



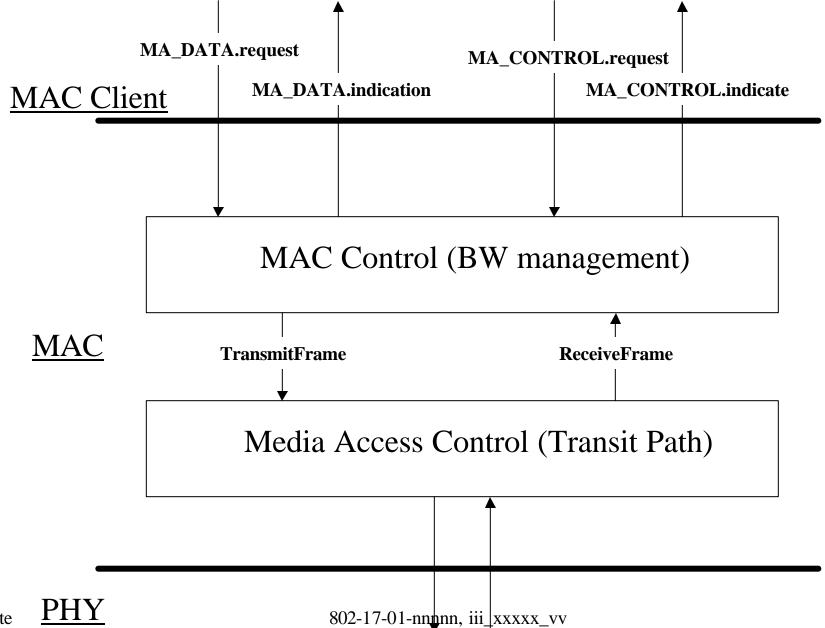


LLC = LOGICAL LINK CONTROL MAC = MEDIA ACCESS CONTROL MDI = MEDIUM DEPENDENT **INTERFACE** PCS = PHYSICAL CODING **SUBLAYER** PHY = PHYSICAL LAYER **ENTITY** PMA = PHYSICAL MEDIUM **ATTACHMENT** PMD = PHYSICAL MEDIUM **DEPENDENT** WIS = WAN INTERFACE **SUBLAYER** XGMII = 10 GIGABIT MEDIA INDEPENDENT INTERFACE





Service Definition











```
MA_DATA.indication (
destination_address,
source_address,
m_sdu,
service_class,
customer_id
)
```





```
MA_CONTROL.request (

destination_address,
opcode,
request_operand_list
```





```
MA_CONTROL.indication (
opcode,
indication_operand_list
)
```







Opcode (Hexadecimal)	MAC Control function	Value/comment
00-00	Reserved	
00-01	PAUSE	Requests that the client stop transmitting
00-02 through 00- FF	Reserved	
01-00	RCF update	Notifies a newly received RCF value
01-01	Protection Event	Notifies a point of failure
01-02	TBD	
01-03 through FF- FF	Reserved	



PAUSE Message Format



opcode (2 bytes)

reserved



RCF Message Format



opcode (2 bytes)

ring ID and segment

RCF upper 2 bytes

RCF lower 2 bytes