

Unconfirmed Minutes - Multiple MCS IEEE 802.3bn EPoC Ad Hoc - 041113

Attendance

Attendee	Present
Alan Brown – Aurora	
Andre Lessard – CommScope	
Andrea Garavaglia – Qualcomm	
Avi Kliger – Broadcom	
Bill Keasler – Ikanos	x
Bill Powell – ALU	x
Charaf Hanna – ST Micro	
Christian Pietsch – Qualcomm	
Curtis Knittle – CableLabs	
Dave Barr – Entropic	
Dave Urban – Comcast	
David Law – HP	
Duane Remein – Huawei	x
Dylan Ko – Qualcomm	
Ed Boyd – Broadcom	
Ed Mallette – Brighthouse	
Eugene Dai – Cox	
George Hart – Rogers	
Guansheng Lu – Huawei	
Hesham ElBakoury – Huawei	
Jim Farmer – Aurora	
Joe Solomon – Comcast	x
John Dickinson – Brighthouse	
John Ulm – Motorola	
Jorge Salinger – Comcast	
Juergen Seidenberg – BK Tel	
Juan Montojo – Qualcomm	
Leo Montreuil – Broadcom	x
Liuming Lu – B-Star	
Lup Ng – Cortina	
Marc Werner - Qualcomm	
Marek Hajduczenia – ZTE	
Mark Laubach – Broadcom	
Matt Schmitt – CableLabs	
Michael Peters – Sumitomo	
Michel Allard – Cogeco	
Mike Darling – Shaw	
Mike Emmendorfer – Arris	x
Nicola Varanese – Qualcomm	

Ony Anglade – Cox	
Patrick Stupar – Qualcomm	
Peter Wolff – Titan Photonics	
Raanan Ivry – Wide Pass	
Ramdane Krikeb – Videotron	
Ron Wolfe – Aurora	
Saif Rahman – Comcast	x
Sanjay Kasturia – Qualcomm	
Satish Mudugere – Intel	
Steve Shellhammer – Qualcomm	x
Thushara Hewavithana – Intel	
Tim Brophy – Cisco	
Tom Staniec – Cohere	
Tom Williams –Cablelabs	
Venkat Arunarthi – Cortina	
Victor Hou – Broadcom	
Volker Lisse - CEL	
Yitshak Ohana - Broadcom	

Agenda

- Attendance
- Review IEEE Patent Policy
- Discuss next steps to drive to baseline proposal
 - What are the items that need to be decided upon?
- Discuss what can be decided now and what has to wait
 - Identify dependencies

Patents Policy

- Everyone familiar with the policy; no response to call for patents

Items to be decided

Resource block: what defines a large or small?

- 250 kHz to 500 kHz

If working SNR is relatively constant across this spectrum, then that is an appropriate size for a resource block.

- Although you could have multiple MCS within a resource block
- Size of a resource block for a bit loading should track against the SNR on target networks
- If resource blocks are small, you run into scheduling issues, with smaller capacity resource blocks and larger capacity resource blocks.
 - Like to see a gradual transition between small capacity blocks are large capacity
 - Rate adaptation algorithm assumes a constant rate across resource blocks, which means that you might be wasting data in larger capacity blocks
 - Difference between the average and instantaneous bit loading turns into jitter

- To facilitate this, have to have constant bits per resource block
- Still do not know the number of subcarrier and symbols in an resource block

A Modulation Profile at the very least defines which modulation coding scheme (modulation order) is being used on each resource block

- May also include other parameters: FEC, Pilot patterns, etc.
- May also only have one MCS per MP
- Steve to talk to Andrea about putting together a presentation on what should be included