802.1BA Profile Grid

V1 - Friday, May 16, 2008

	Consumer	Professional A/V	Industrial
Number of traffic classes	2	2	2
Class reservable mgt rq	no	yes	yes
default class A limit	such that B gets 20ms worst case latency (7 hop)	same	same
ethernet link rate	100 min	same	same
reservation switchover time (typ w/c config)	100ms	20ms	20ms
typical w/c config	7 ethernet hops, or 2 wifi hops plus 2 ethernet hops, or 4 ethernet hops plus one MoCA hop		64 ethernet hops
typical w/c streams	3 HD + 5 SD + 4 audio	HD video: 100-200 Uncompressed, Live Perf:, Theme park:, Auditorium:, Church:, Audio studio:	
multiple talker/stream	no	yes	no
dynamic B/W	yes	no	yes
buffered repeater detection	yes, 100m ethernet max	same for pro audio, no for studio	yes
SNMP assumed	no	yes	yes
talker pruning capability rq	no	yes	no
expected number of ports on a bridge	5 to 8	24 or more	5 to 8
daisy chaining expected	maybe	yes for live perf	yes
grandmaster capability	talker only rq	dedicated grandmaster(s)	dedicated grandmaster(s)
synchronization accuracy	1us	1us	1us
endstation jitter/wander	consumer audio	HD-SDI	motion controller
clock initialization time	2 seconds	500ms	500ms
clock reconfig time	???	??	??
data path reconfig	???	20ms	20ms
IGMP/MMRP proxy	desirable/maybe required	maybe desirable	no
.1AS synch interval	maximum for the link		same??
.1AS startup synch interval	same or TBD	same or TBD	same or TBD
spanning tree cost changes	AS and Qat/av both or separately	AS and Qat/av separately	AS and Qat/av separately
separate spanning tree for AS	no (AS does BMC just to select GM)	OK	OK
stream address auto-assignment	probably	yes	no