



P802.1Qat status

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Topics

- What's new in D2.0
- What's coming in D2.1
- Next ballot
- What's left for Qat
- Review P802.1Qat/D2.0

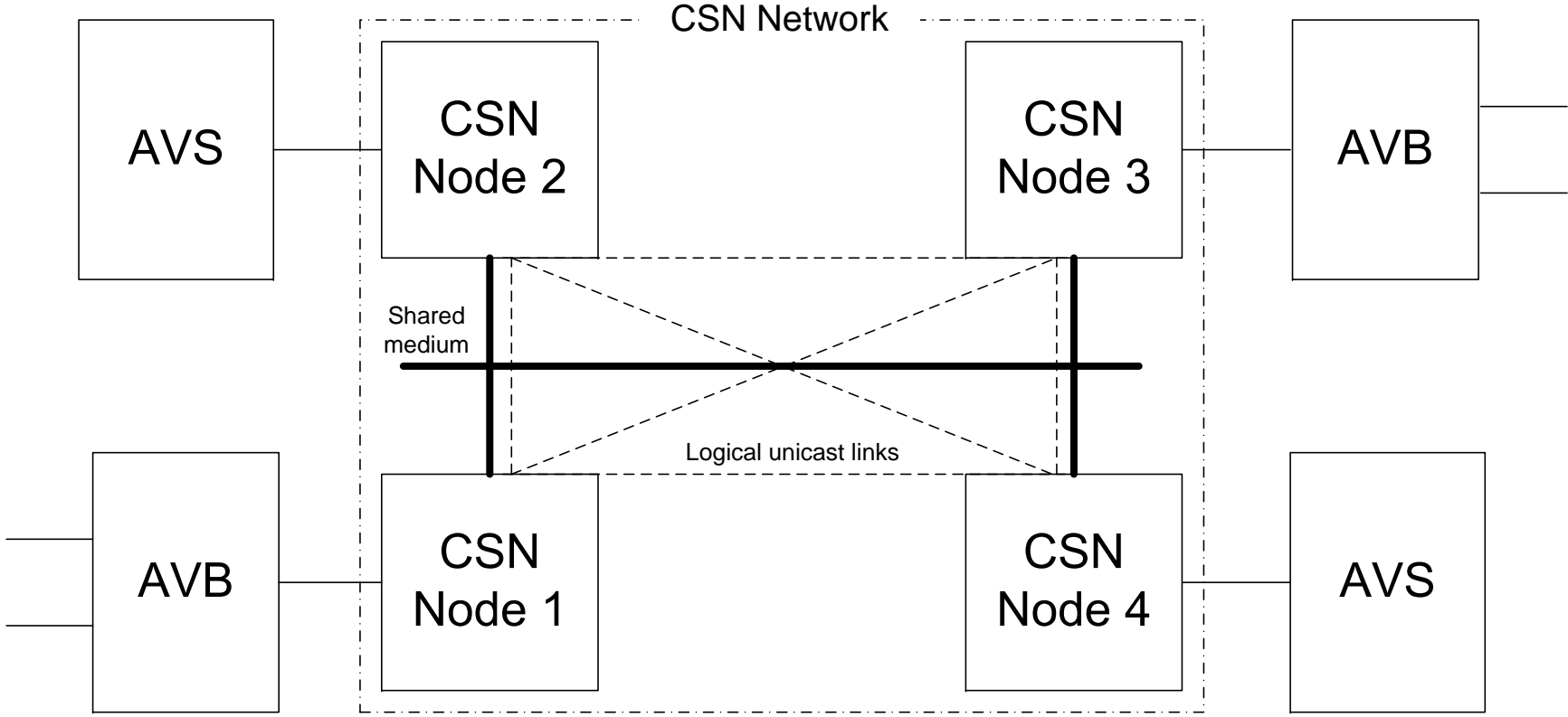
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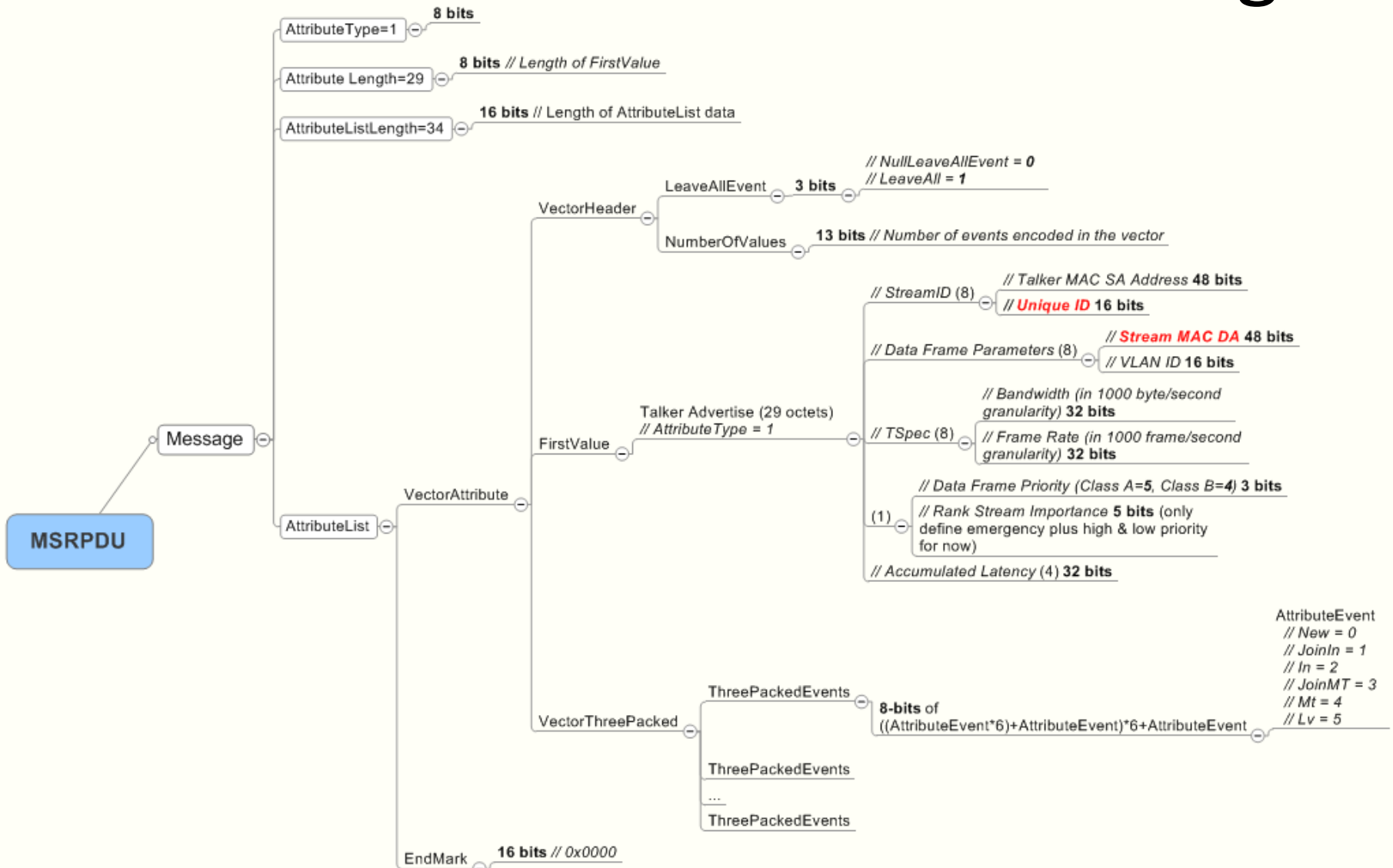
Focus

- All outstanding 'Q' addendums renumbered
- Reorganized & rewritten for clarity
 - Based off of implementers questions
- First DMN defined (CSN)
- MSRPDU fields completely defined
- Define Service Primitives
- Enough details to build interoperable prototypes

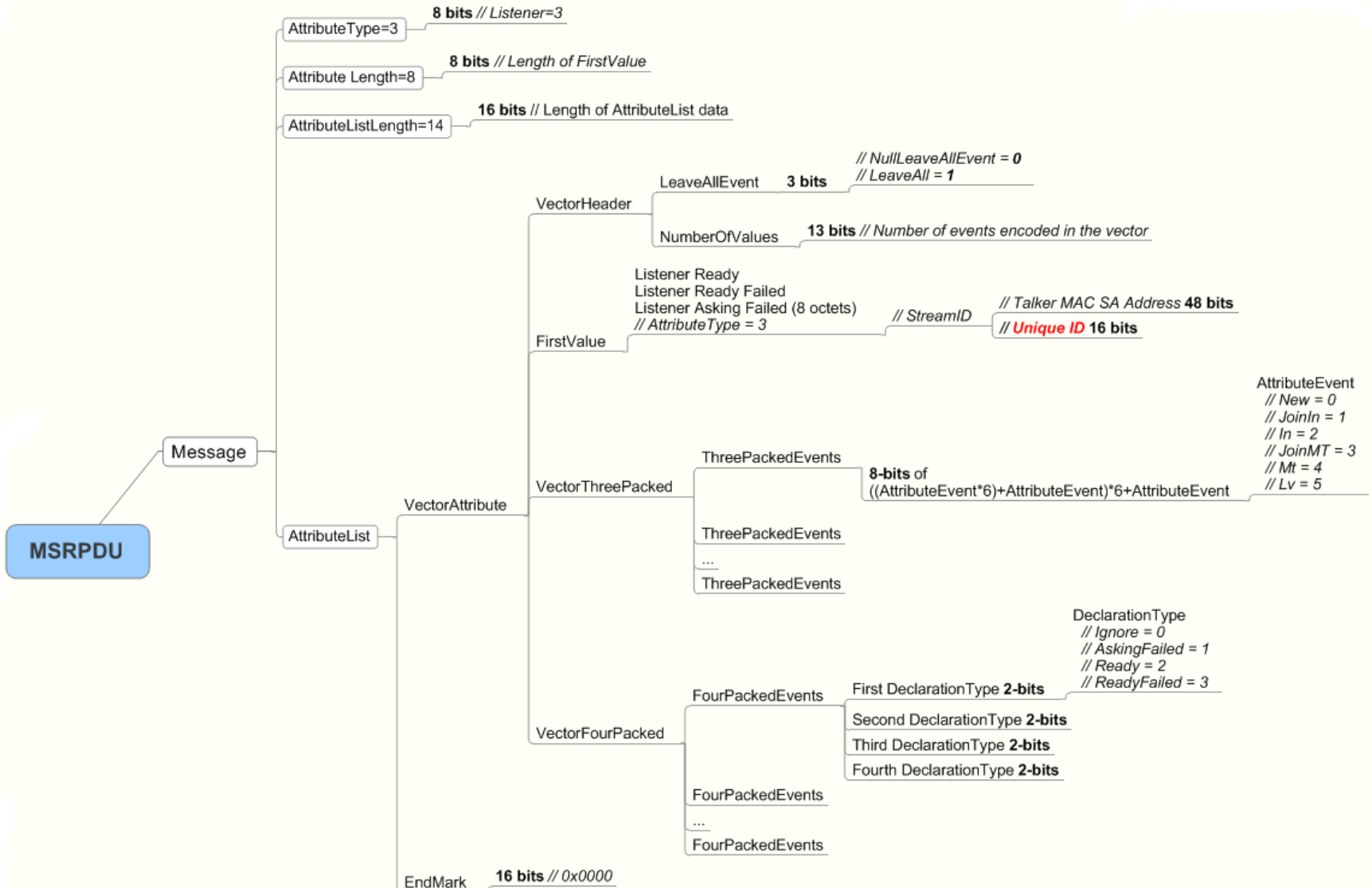
Designated MSRP Node (DMN)



MSRPDU TalkerAdvertise Message

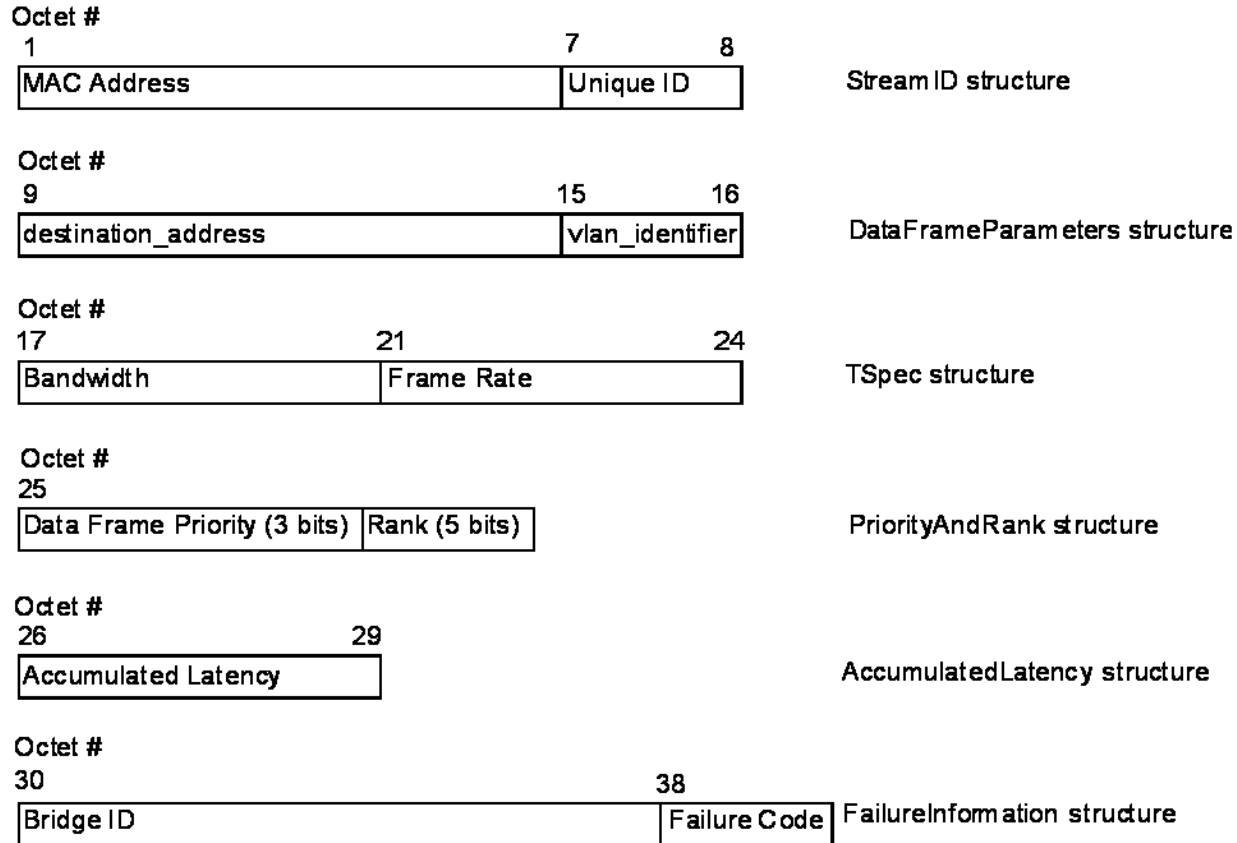


MSRPDU (all) Listener Message



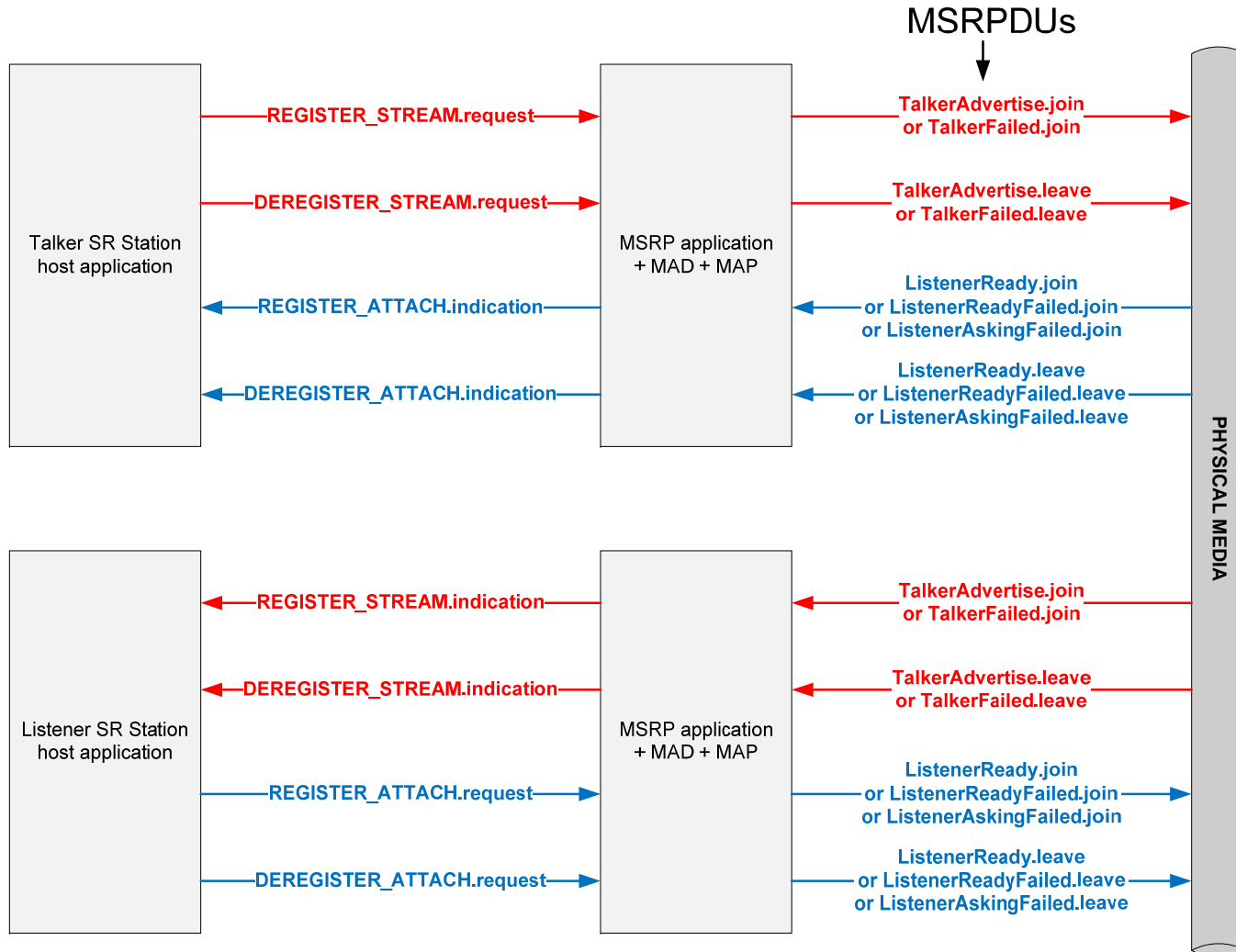
MSRPDU FirstValue components

FirstValue



Format of the components of the MSRPDU FirstValue

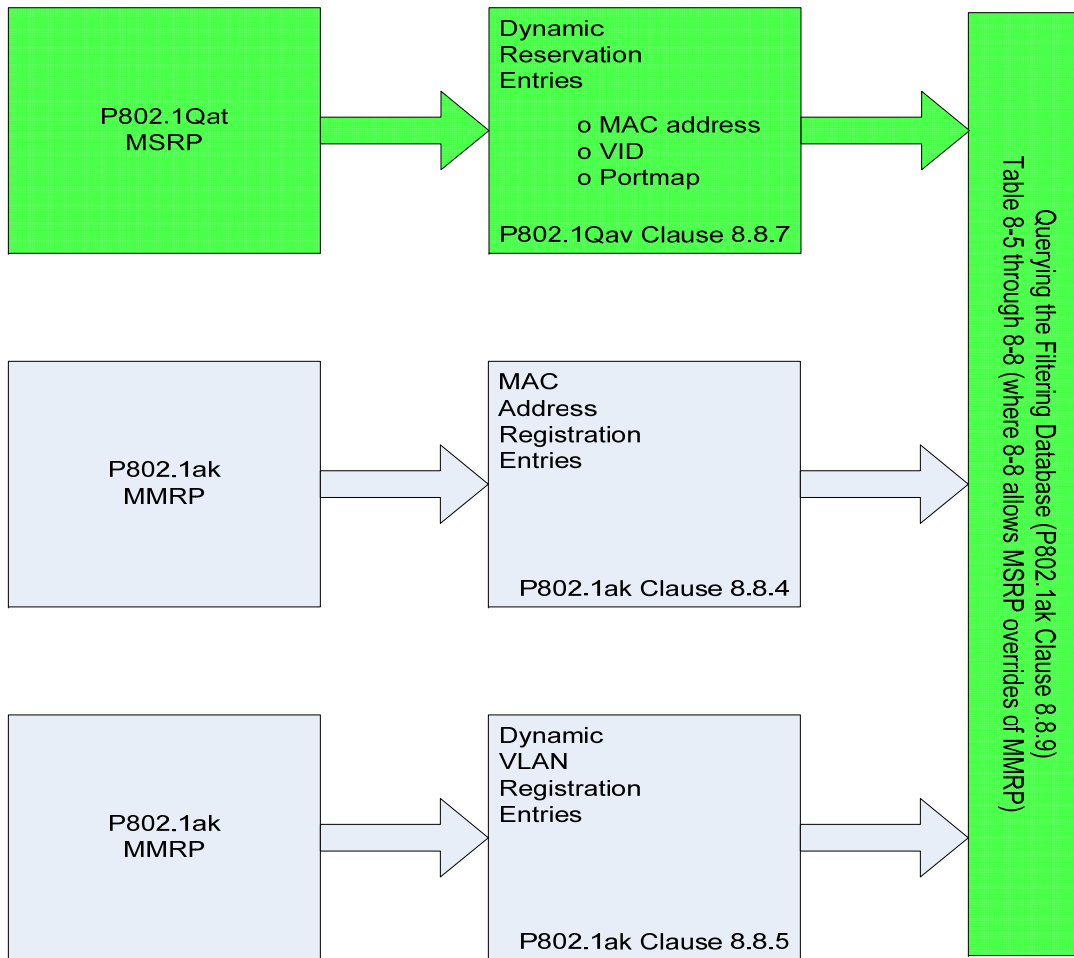
Service Primitives



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Qat \Rightarrow Qav Forwarding



Attribute Registrations

		Talker		
		(none)	Advertise	Failed
Listener	(none)	-	Filtering	Filtering
	Ready	Filtering	Forwarding	Filtering
	Ready Failed	Filtering	Forwarding	Filtering
	Asking Failed	Filtering	Filtering	Filtering

Qat \implies Qav Forwarding & Queuing

- **Dynamic Reservation Entries**
 - Qav clause 8.8k, t, u, v
 - Updated by SRP reservations
 - Allows Qav to control Filtering/Forwarding
- **reservedBandwidth(N)**, where N=Traffic Class
 - Qav Clause 34.3b2
 - One per port, per Traffic Class
 - Updated by SRP reservations
 - Allows Qav to calculate idleSlope

Qat \implies Qav Queuing (continued)

- **bandwidthAvailabilityChanged**
 - Qav clause 34.3.2
 - Informs Qat of a bandwidth change
 - Management change (**deltaBandwidth(N)**)
 - 802.11 related change (**portTransmitRate**)
- **perFrameOverhead**
 - Qav clause 34.4
 - Per port overhead required my media
 - Used by SRP for bandwidth calculations

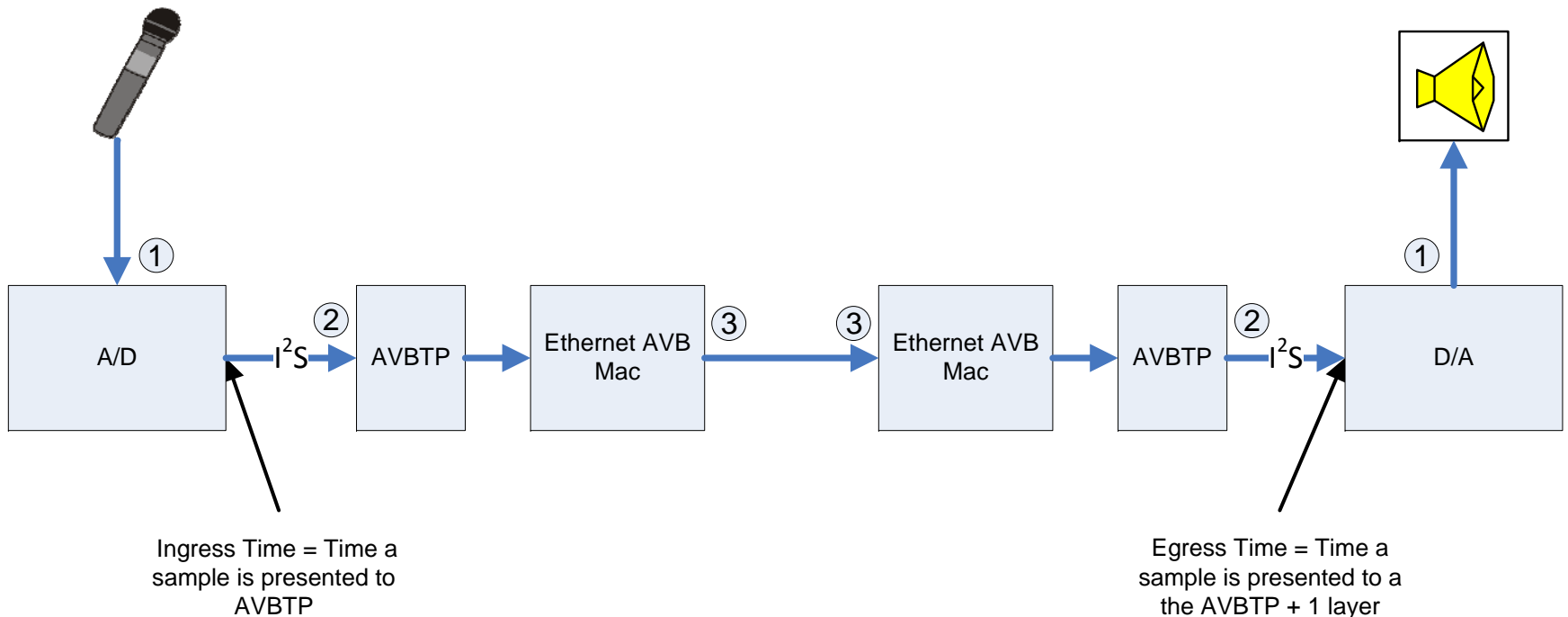
Other D2.1 changes

- Annex Q (informative) MSRP MAP Algorithm
 - Replace 35.2.5 & 35.2.6 with one or two page description
 - Rework with latest Qav changes
- 802.11 DMN?

Outstanding questions

Where to measure latency?

- 1 – Input to A/D (parameter in REGISTER_STREAM.request)
- 2 – Input to I²S (1722 timestamps are done here)
- 3 – Entrance to the cloud (currently defined in Clause 35.2.2.8.6)



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Clauses to be completed

- Clause 5. Conformance
- Clause 7. Principles of network operation
- Clause 12. Bridge management
- Clause 17. Management Information Base (MIB)

Clauses to be completed (cont'd)

- Clause 35. MSRP
 - Three-step (Talker Pruning) still necessary?
 - Management controlled option
 - Stream ID based: “Don’t forward Talker attributes unless outbound port has already registered a Listener attribute”
 - Stream DA based: “Don’t forward Talker attributes unless outbound port has an MMRP registration for Stream DA”
 - Handling exceptions
 - Two Talkers providing same Stream ID
 - Two Talkers using same multicast Stream DA

Annex tasks

- Annex I (informative) - PICS
- Annex Z (informative) – AVB Assumptions

Questions?

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