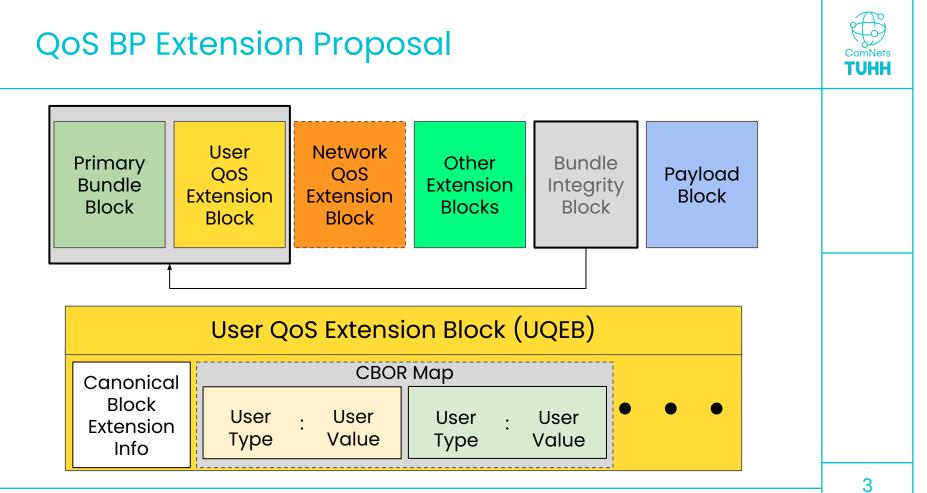
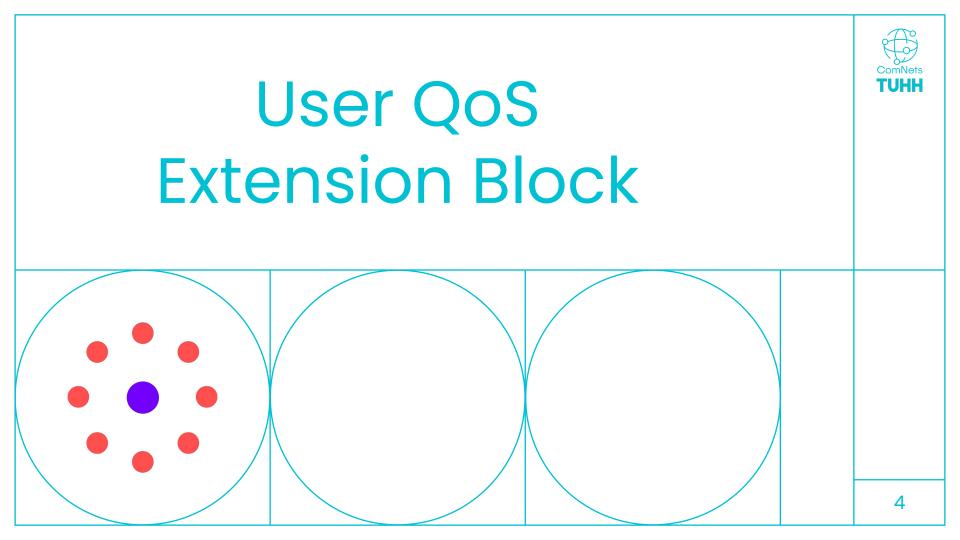


ESA. Terrae Novae. https://www.esa.int/Science\_Exploration/Human\_and\_Robotic\_Exploration/Exploration/Terrae\_Novae\_Europe\_s\_exploration\_vision



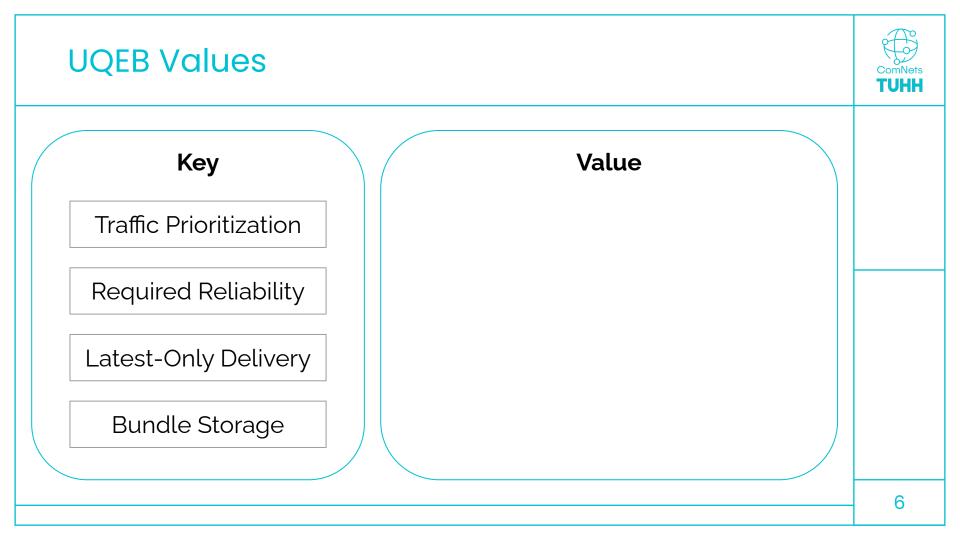
Burleigh, S., K. Fall, and E. Birrane, III. "RFC 9171: Bundle Protocol Version 7." (2022).

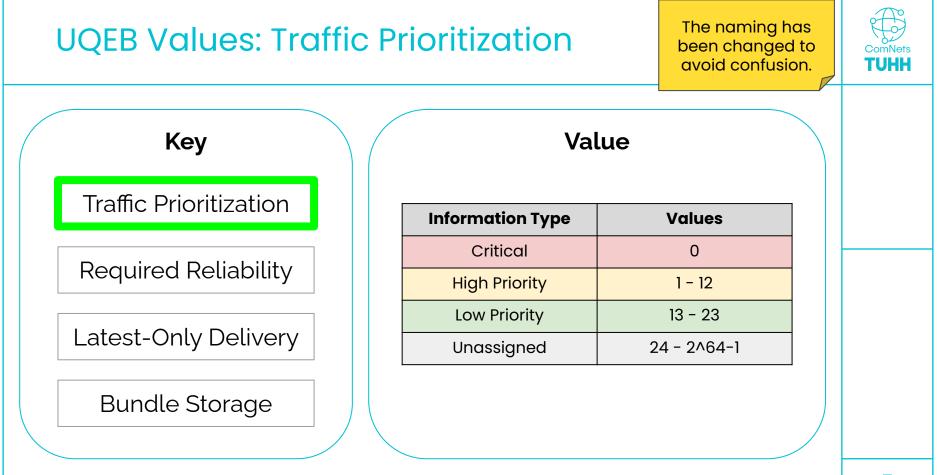


## User QoS Extension Block (UQEB)

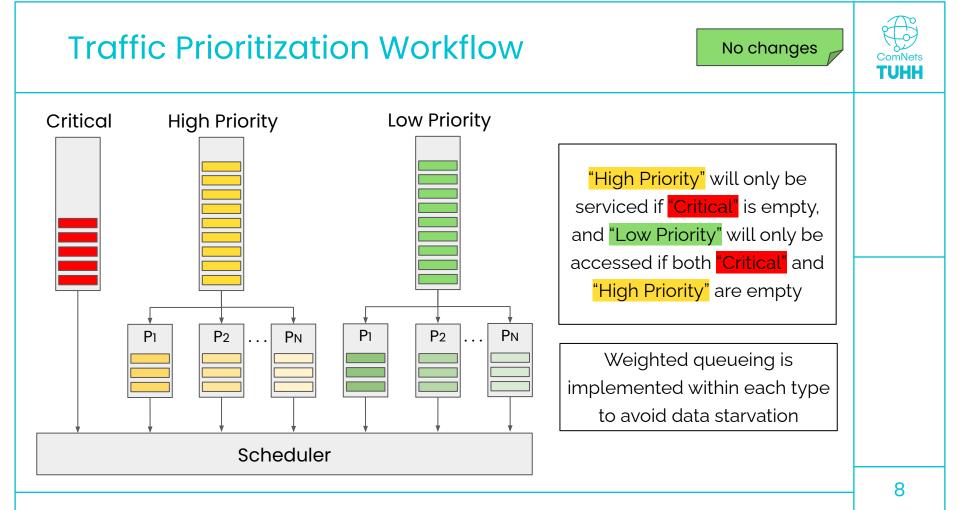
Key	Value	
Traffic Prioritization	00	
Required Reliability	01	
Latest-Only Delivery	02	
Bundle Storage	03	
Reserved for Future Use	04 — 23	
Unassigned	$24 - 2^{64} - 1$	
For 1-Byte CBOR Tiny Field Encoding compact representation		

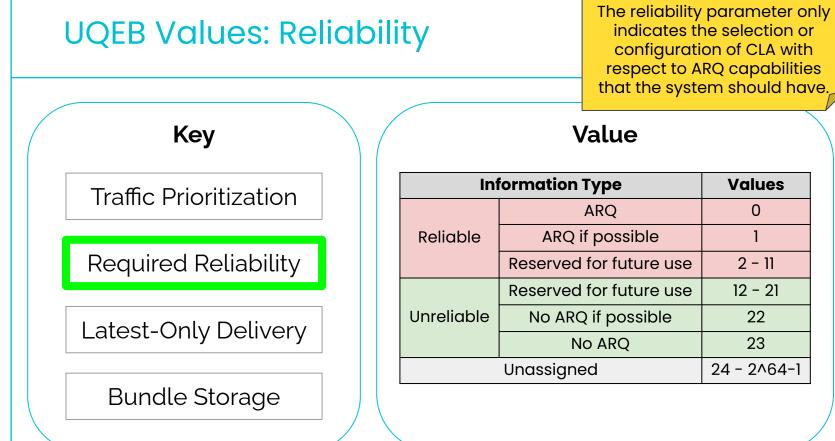






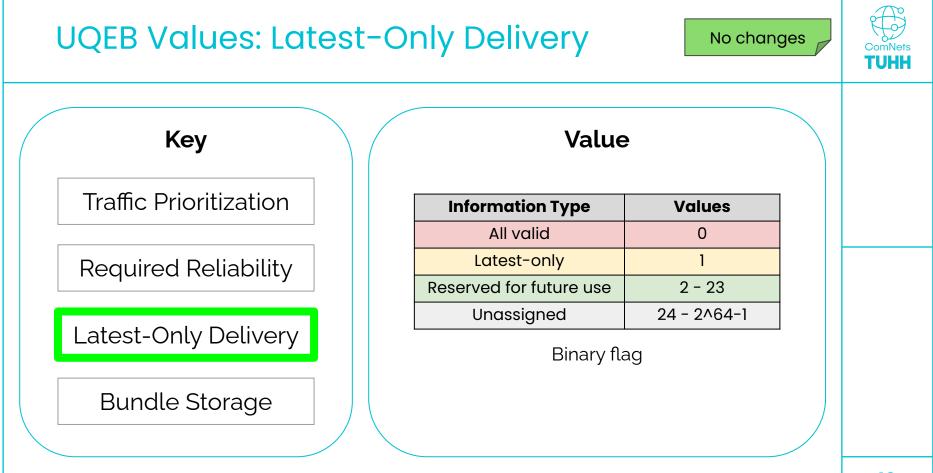
Esper, Jaime. Draft LunaNet Interoperability Specification. No. NASA/TP-20210021073/Rev. 2. National Aeronautics and Space Administration, 2022.



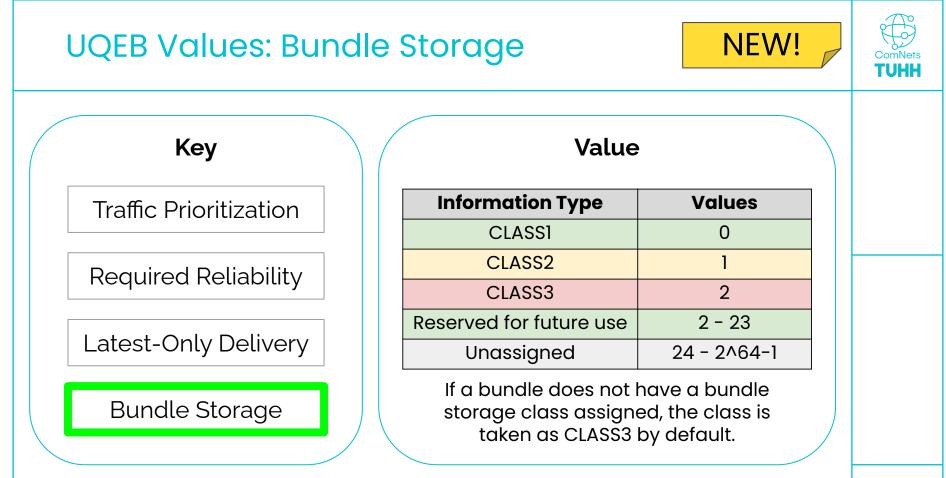


TUHH

Information Type		Values
Reliable	ARQ	0
	ARQ if possible	1
	Reserved for future use	2 - 11
Unreliable	Reserved for future use	12 - 21
	No ARQ if possible	22
	No ARQ	23
Unassigned		24 - 2^64-1

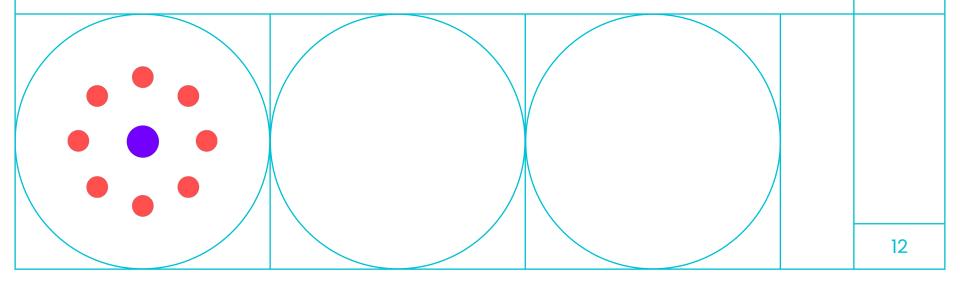


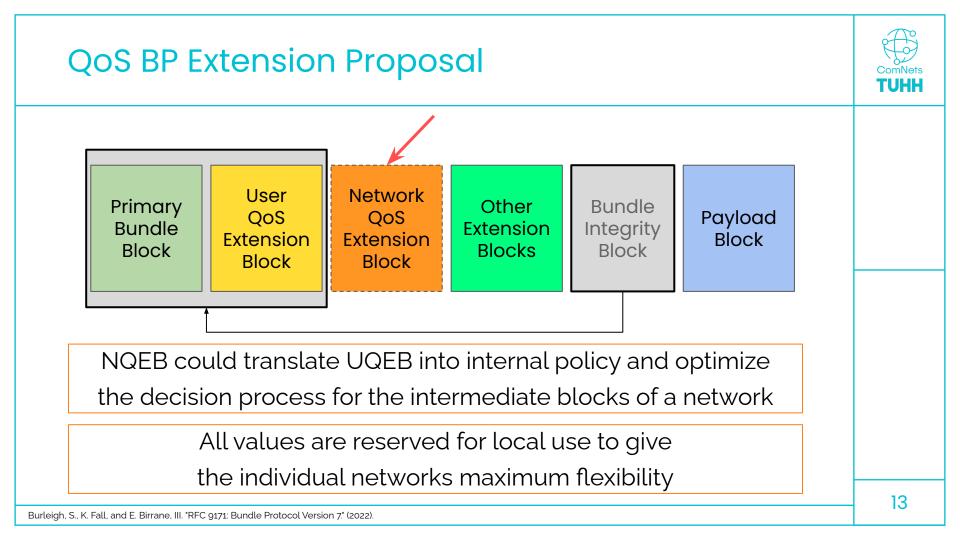
Baumgärtner, Lars. "Dtnmqtt: A Resilient Drop-In Solution for MQTT in Challenging Network Conditions", 2024

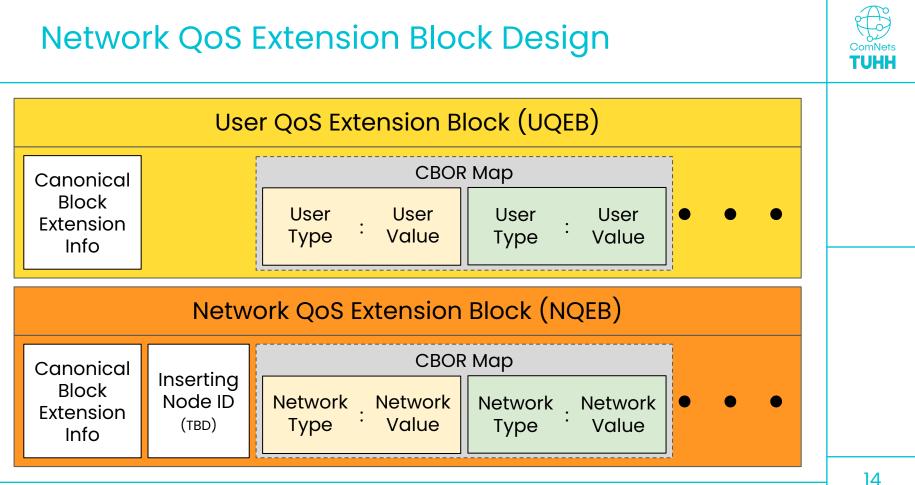




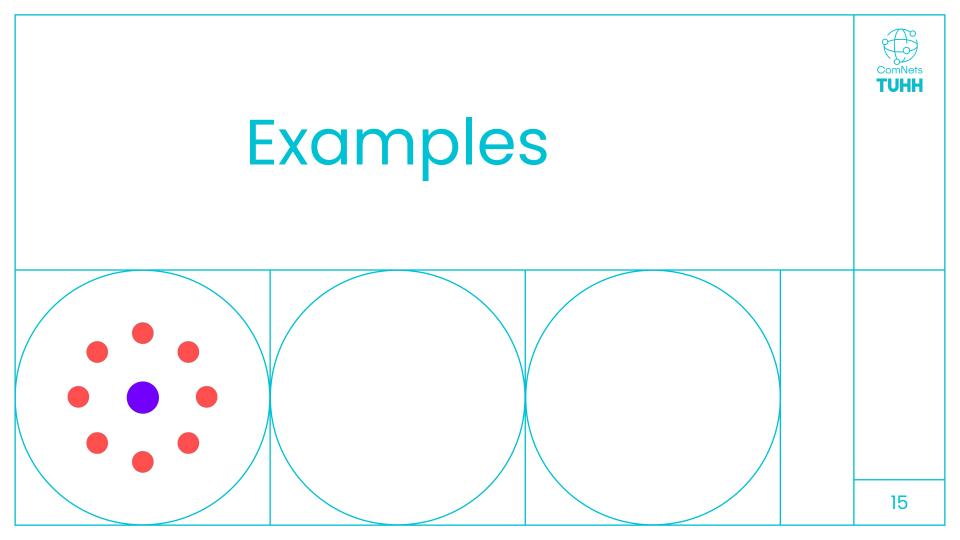
## Network QoS Extension Block

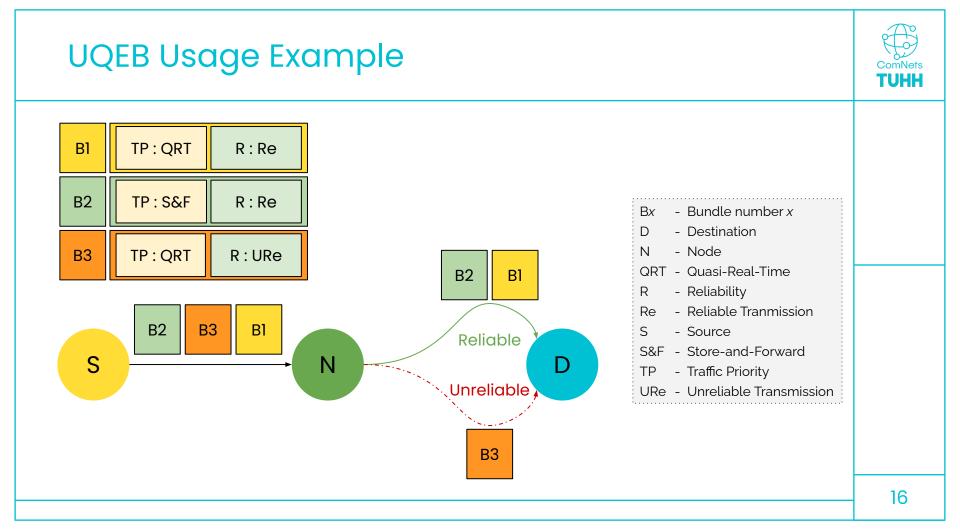


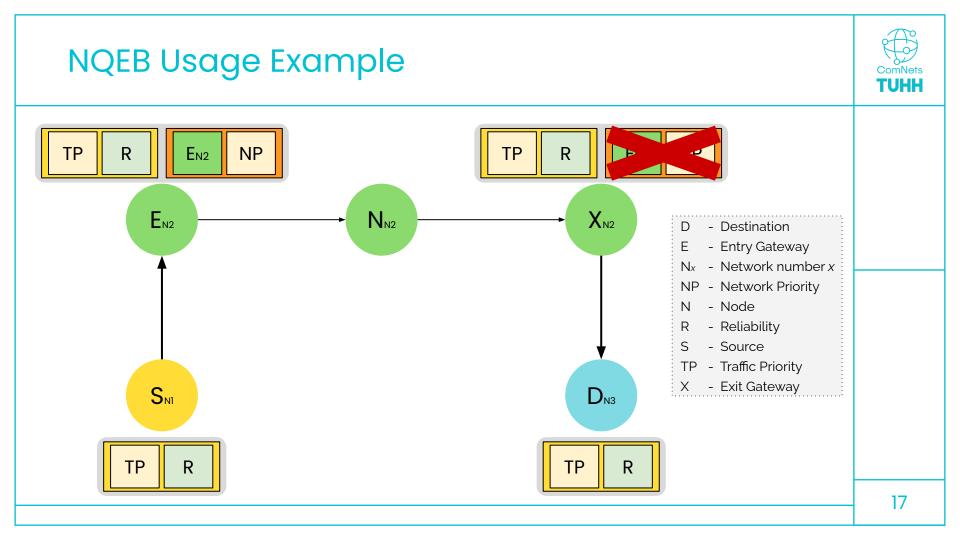


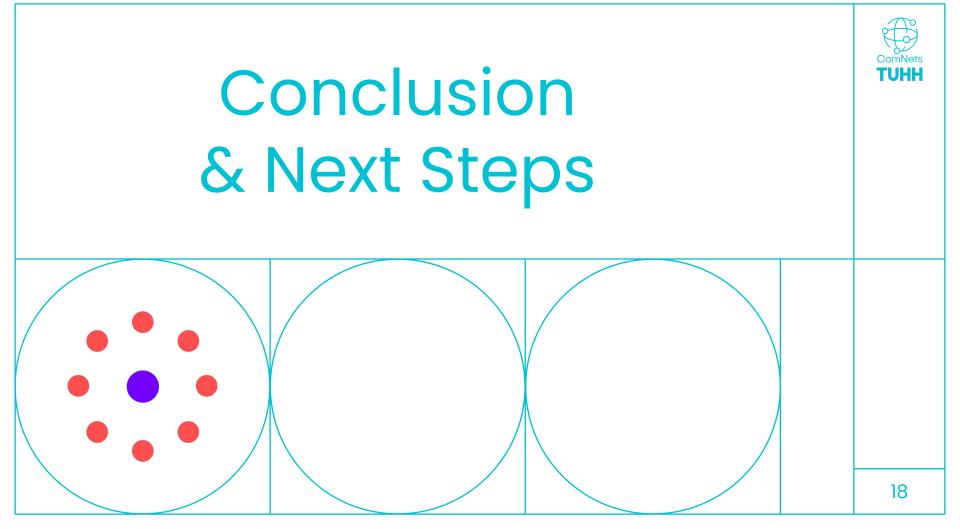


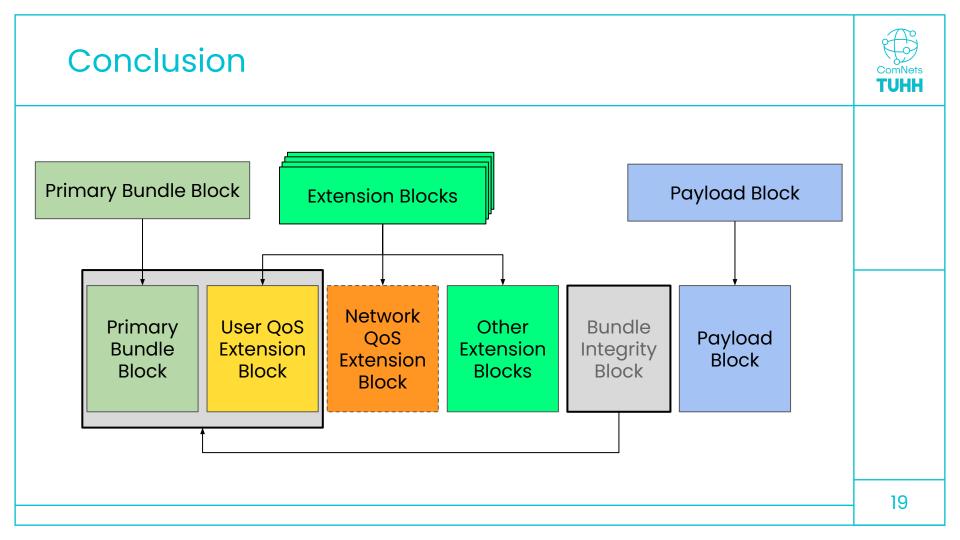
Burleigh, S., K. Fall, and E. Birrane, III. "RFC 9171: Bundle Protocol Version 7." (2022).











## Orange Book Timeline



## CCSDS Orange Book Schedule

Schedule Milestones	<b>Original Completion Date</b>
Project Approved	01/03/2024
Project Start Date	01/03/2024
Internal WG Review	
First Draft Circulated to WG	15/04/2024
First Draft Comments Due	02/06/2024
Second draft circulated to WG	01/10/2024
Second Draft Comments Due	01/12/2024
Final WB Submitted to AD for Further Processing	01/02/2025
External Milestones	
Secretariat Document Processing	01/04/2025
CMC Approval	01/06/2025
Total Time to Complete (in months)	15

Proposed in CCSDS Autumn Meeting 2023

First draft in CCSDS Spring Meeting 2024

Second draft in CCSDS Autumn Meeting 2024

