

Common Public Radio Interface

CPRI functional decomposition requirements
update

Introduction

- Following table summarizes CPRI requirements expectation
- 802.1CM group feedback is expected over the given requirements values

Requirements summary

	Synchronization Stream	IQ data	C&M data
Traffic type repartition	-	> 90%	< 10%
Traffic pattern	-	Periodic (1~67μs)	Burst
Traffic QoS type	Very High	High	Best Effort
Security	Under study	Under study	-
End-to-End Latency	-	<100μs	-
FDV	-	Not specify	-
FLR	-	<10 ⁻⁹	<10 ⁻⁶
Sync. timing error	Class A+: <= 10 ns Class A: <= 45 ns Class B: <= 110 ns Class C: <= 1.36 μs	-	-
Sync. freq. error	Under study	-	-

Synchro timing Error Accuracy

- Class A+: ≤ 10 ns Nice to have
 - MIMO, Tx-diversity
- Class A: ≤ 45 ns Must have
 - CA Intra Contiguous.
- Class B: ≤ 110 ns Must have
 - CA Intra Non-Contiguous, CA Inter
- Class C: ≤ 1.36 μ s Must have
 - LTE TDD