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IEEE 1914 Next Generation Fronthaul Interface Jinri Huang, huangjinri@chinamobile.com

Node classes – initial contribution Date: 2017-09-27 **Author(s): Name Affiliation Phone [optional] Email** [optional] Aleksandra.Checko Aleksandra Checko MTI Radiocomp @mtigroup.com

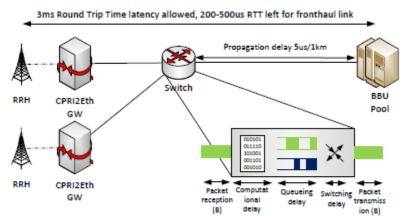
Background

- Need for operators to get NGFI certified network nodes
- Need for unique NGFI contributions, not text-book style descriptions

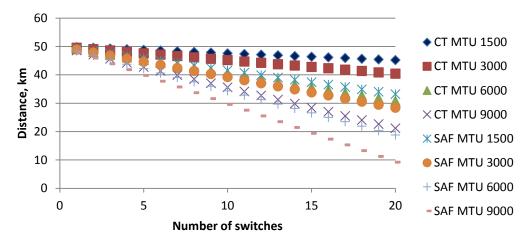
Node names 2017-08-22

Technical background

- Delay classes considered: 50us, 100us, 1ms, 10ms
- Propagation delay: 5us/km



Example for a latency budget 250us:
 RRH-BBU distance assuming no queuing





0 3us MTUdependent

IEEE

Proposal

NGFI node classes: (starting point)

Class	A	В	C	D
Upper node processing time	2µs	10µs	25µs	100µs

- Building blocks, fits 10 nodes on 100us link, 10 nodes on 1ms link
- Measurement points: LILO
- For given slice
- For given frame size
- For given line rate
- → Feedback needed

Thank you

