Node processing

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Overview

❑ Seperate Nodes into classes, one-to-one relation with service classes

Class	Sub Class	Processing time upper bound requirement	Priority Level	Informative (to be removed – changed to text)
Control & Management	Synchronization	TBD		
	Low latency RAN control-plane	τ_1'		
	TBD			
Data-plane	Subclass 0	τ_0'		Cut-through
	Subclass 1	τ_1'		Store-and-forward
	Subclass 2	τ_2'		Store-and-forward
	Subclass 3	τ_3'		Legacy Ethernet nodes
Transport network control & management	Transport NW control-plane	τ_2'		
Reserved				

Upper Limit

❑ Provide a formula how the node processing time is calculated and reference numbers at different link rate

$$\tau'= (\tau\text{-propogation delay})/\#switches$$

❑ Avoid specifying line rate rececommendations

Node processing time	τ_0'	τ_1'	τ_2'	τ_3'
Upper bound value	(50us–propogation delay)/(#swithes)	(100µs-propogation delay)/(#switches)	(1ms-propogation delay)/(#switche Avoid specifying line rate rececommendations s)	(10ms-propogation delay)/(#switches)