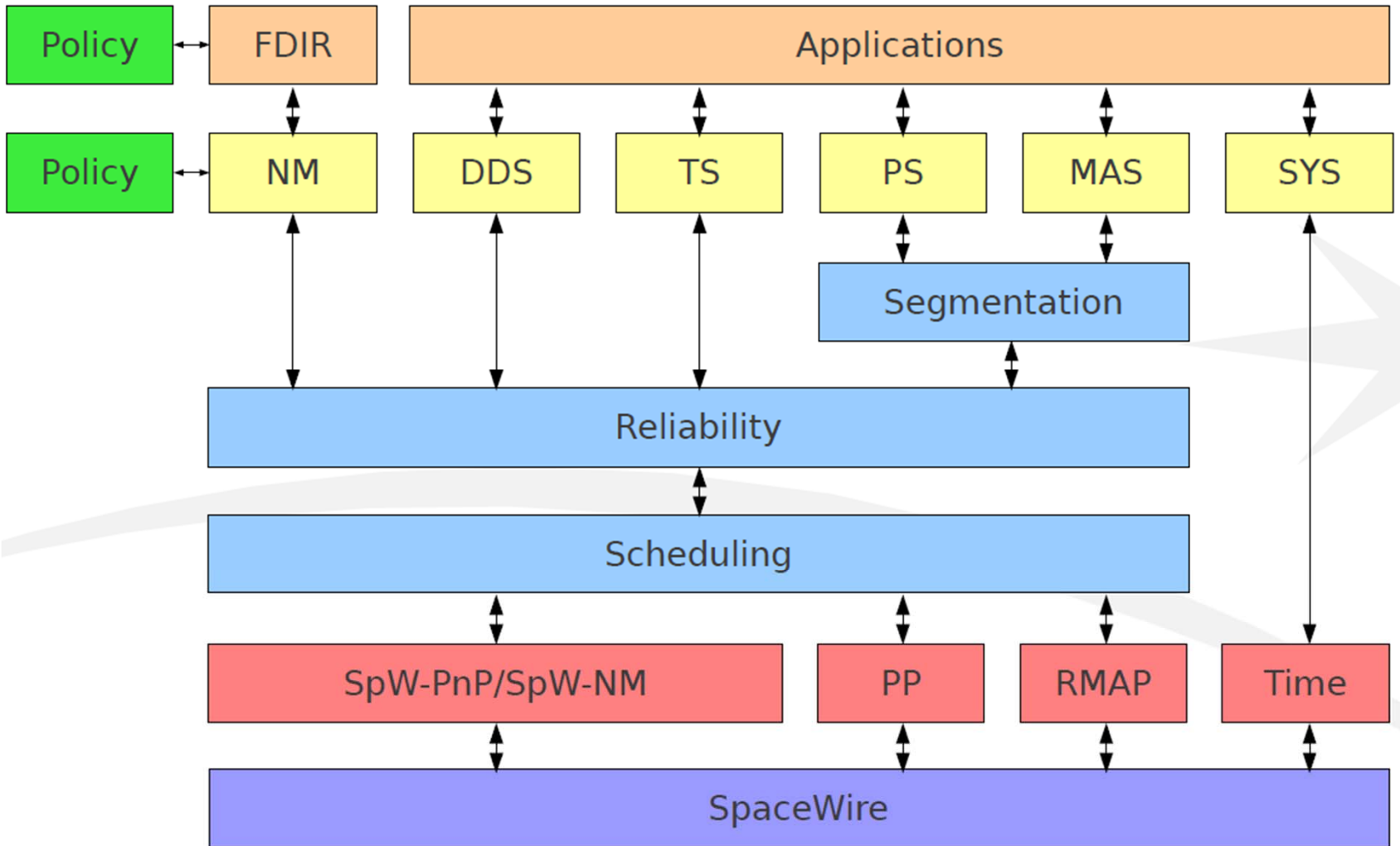


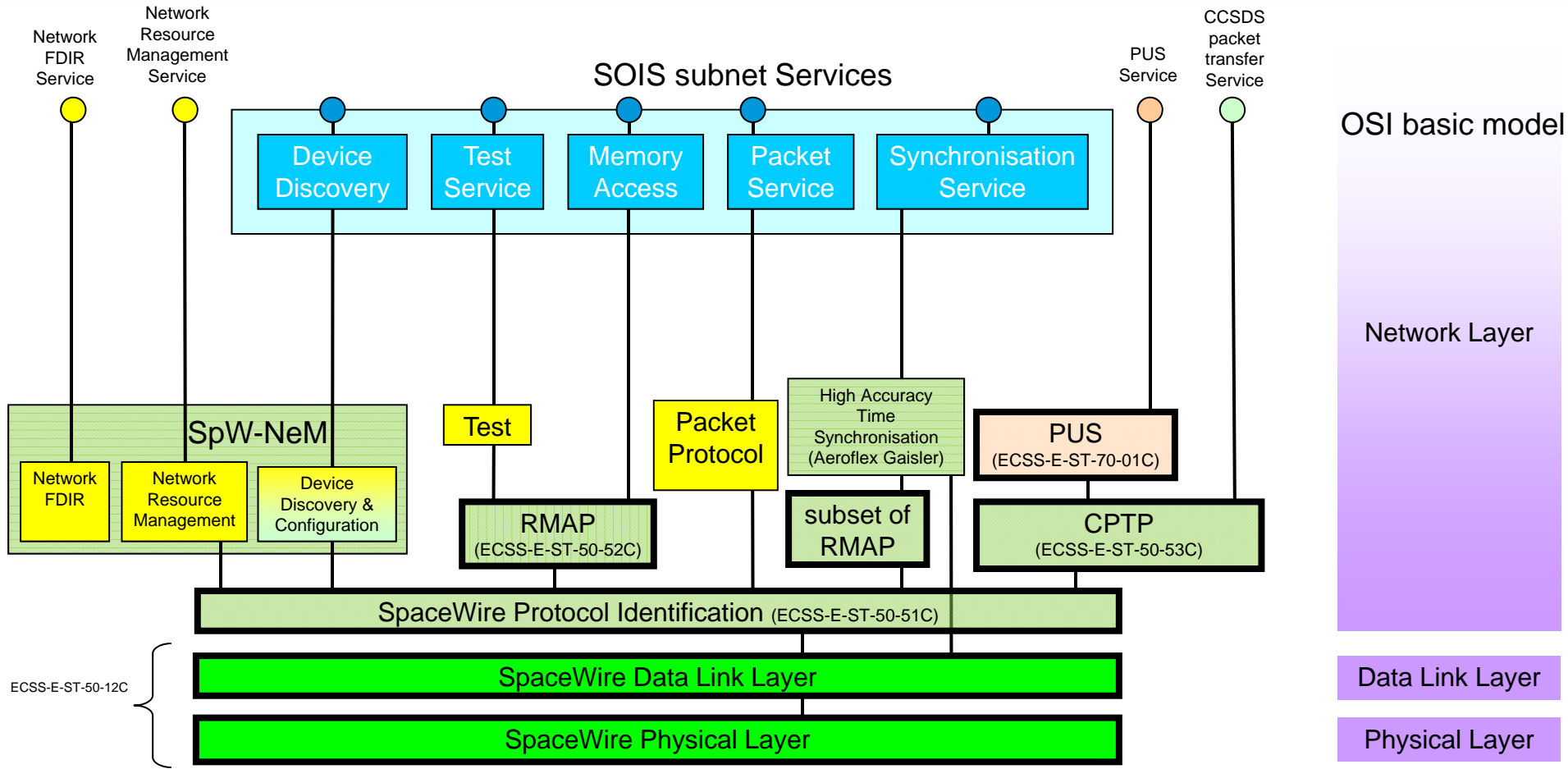
SpaceWire protocol stacks

David Jameux
ESTEC
03/10/2012

From meeting #18 (credit P.Mendham)

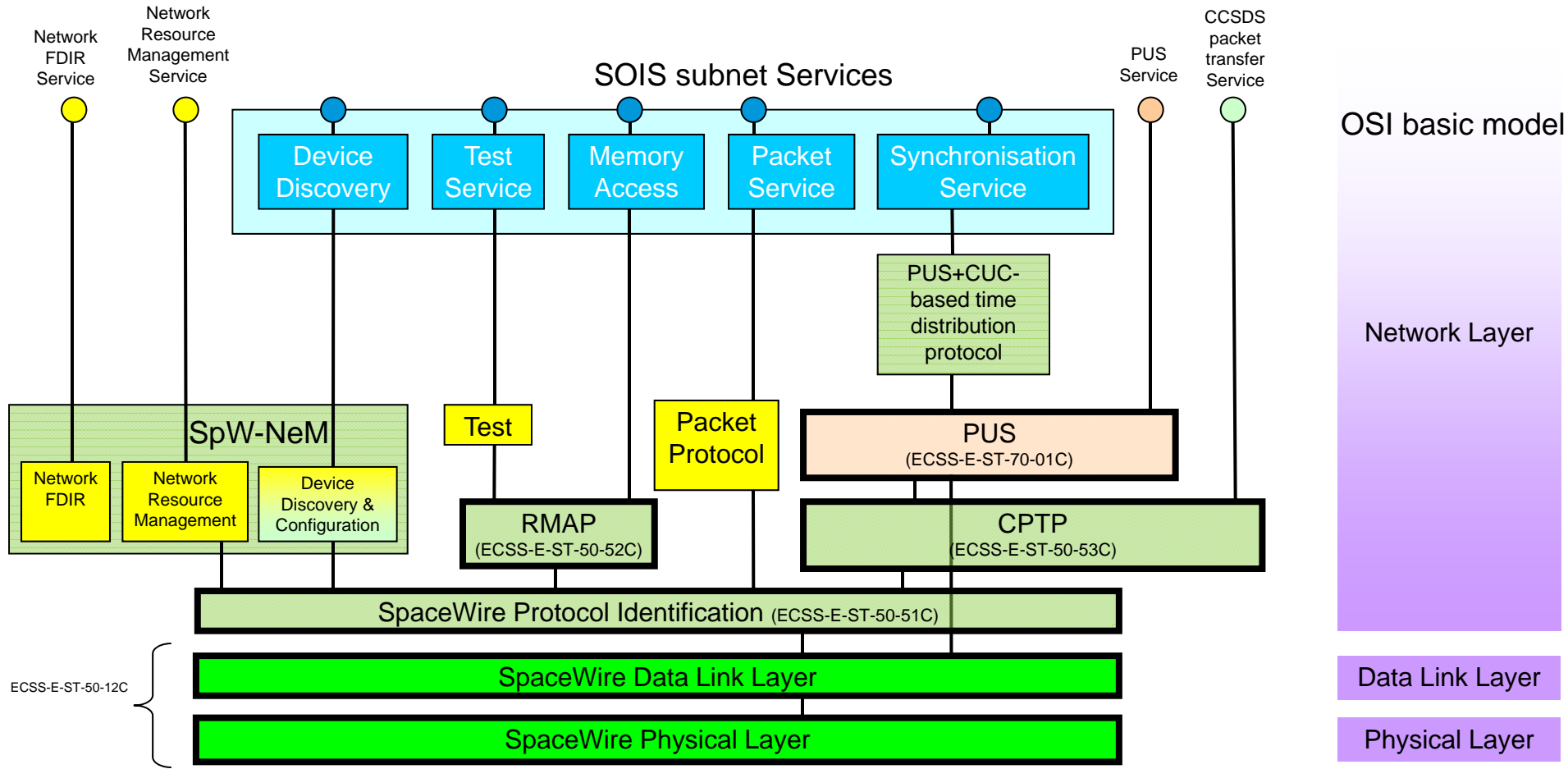


SpW external stack (view 1 - non-scheduled)



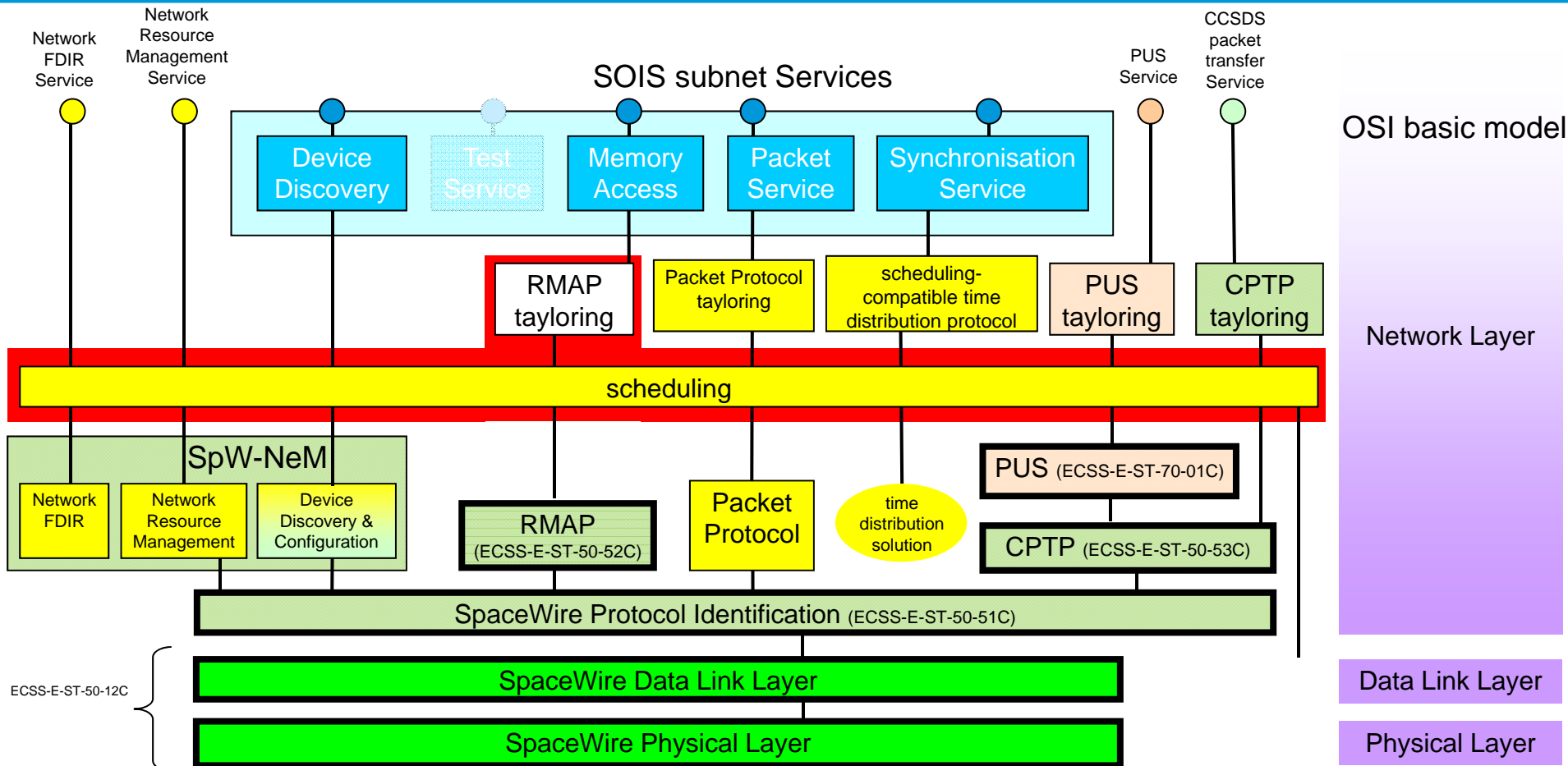
ECSS standardised	SOIS/SpW services
NOT standardised yet	SpW-based protocols already defined or under definition
optional	SpaceWire
Service Access Point	SpW-based protocols to be defined
	SpaceWire-D

SpW external stack (view 2 - non-scheduled)

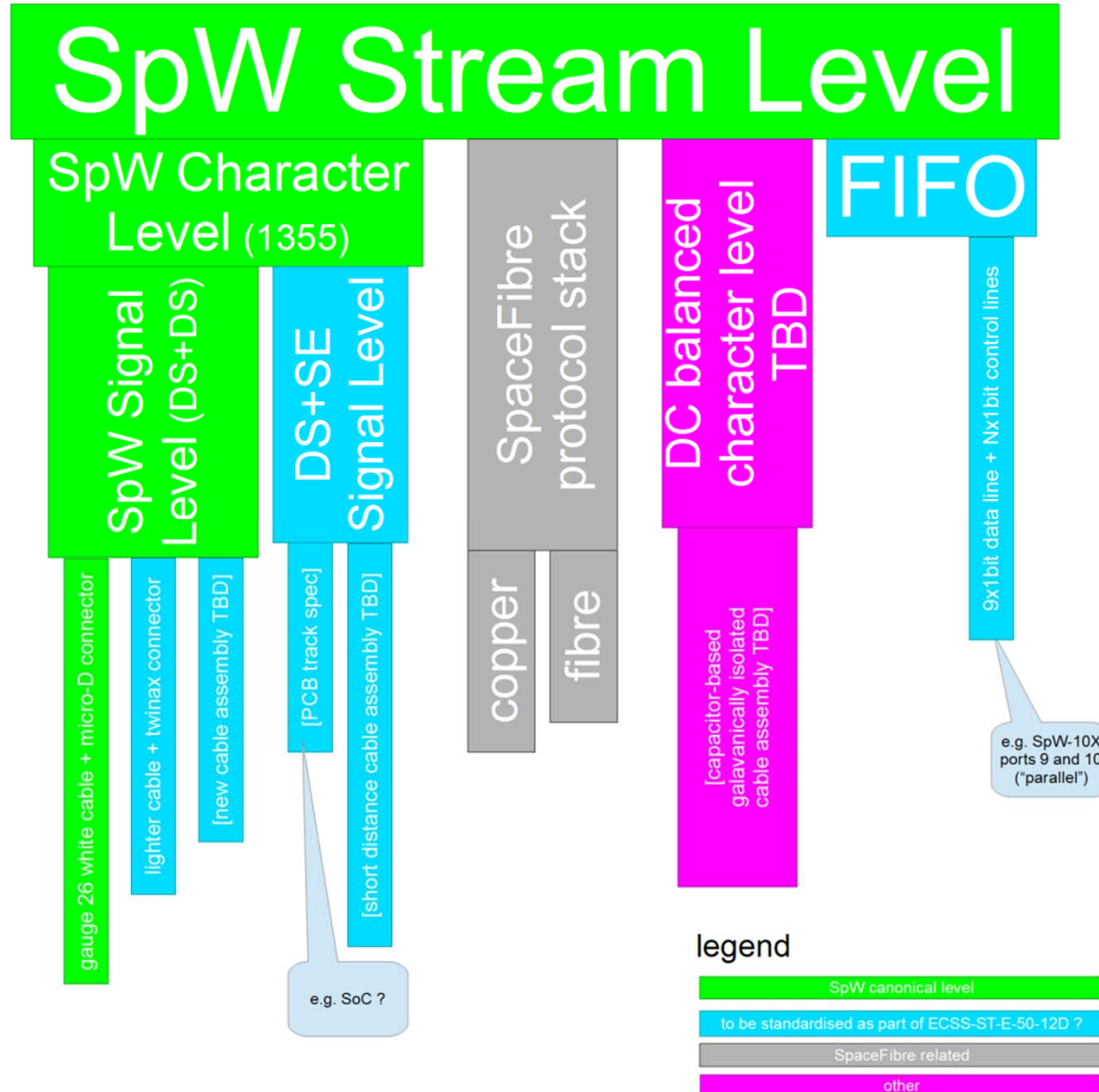


	ECSS standardised		SOIS/SpW services
	NOT standardised yet		SpW-based protocols already defined or under definition
	optional		SpaceWire
	Service Access Point		SpW-based protocols to be defined
			SpaceWire-D

SpW external stack (view 3 - scheduled)

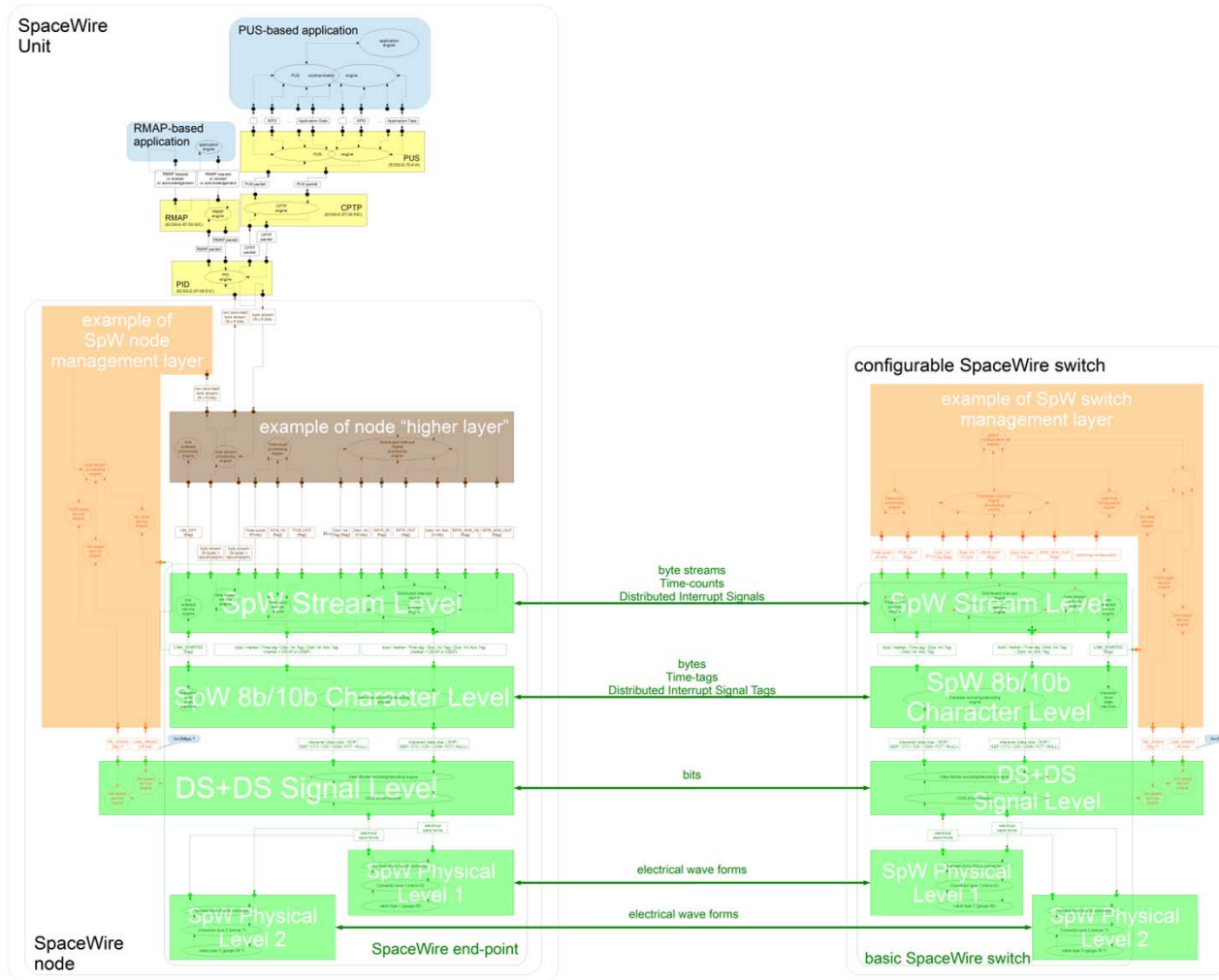


	ECSS standardised		SOIS/SpW services
	NOT standardised yet		SpW-based protocols already defined or under definition
	optional		SpaceWire
	Service Access Point		SpW-based protocols to be defined
			SpaceWire-D



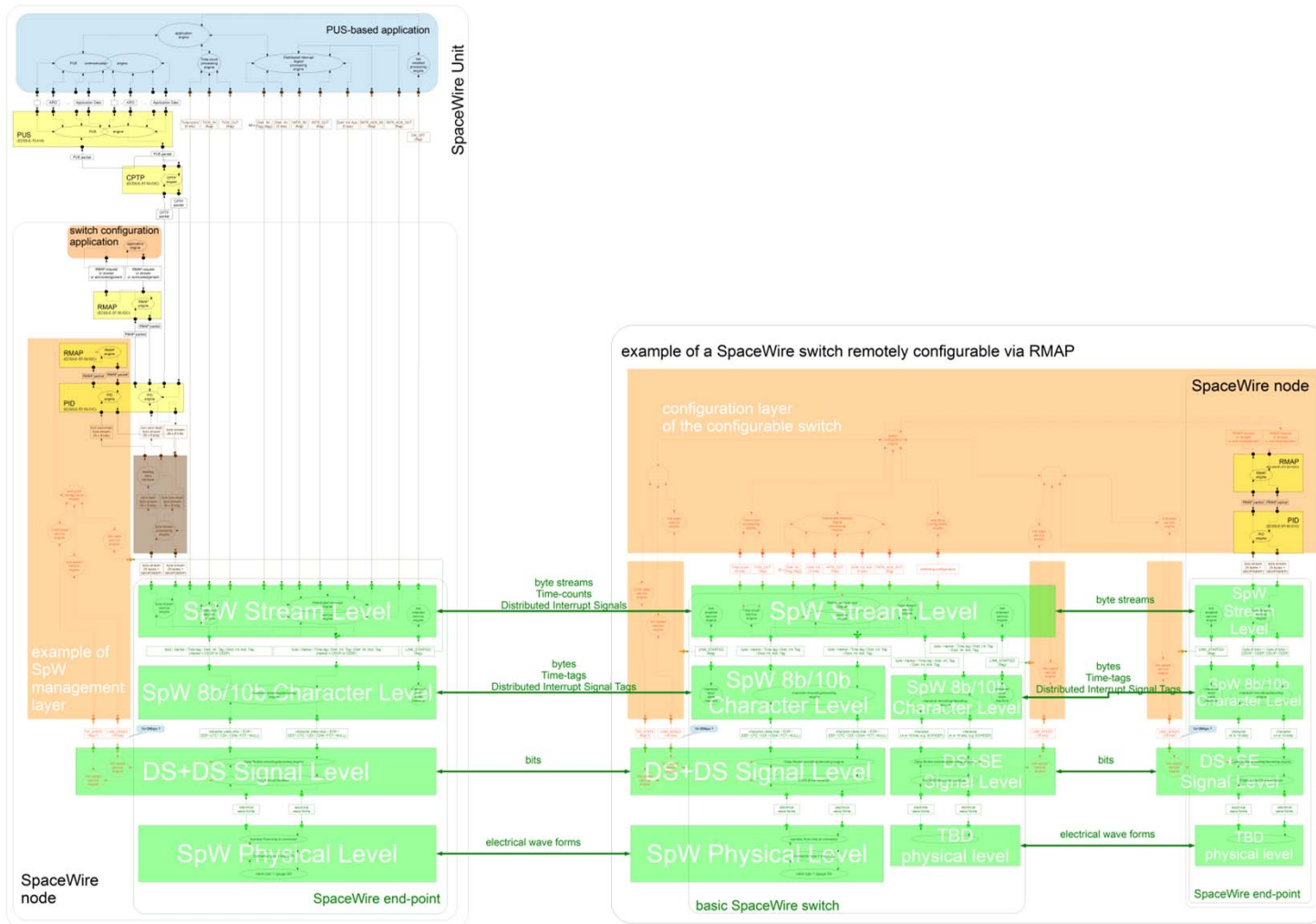
SpW internal and external stacks

(view 1 - generic unit & configurable switch)



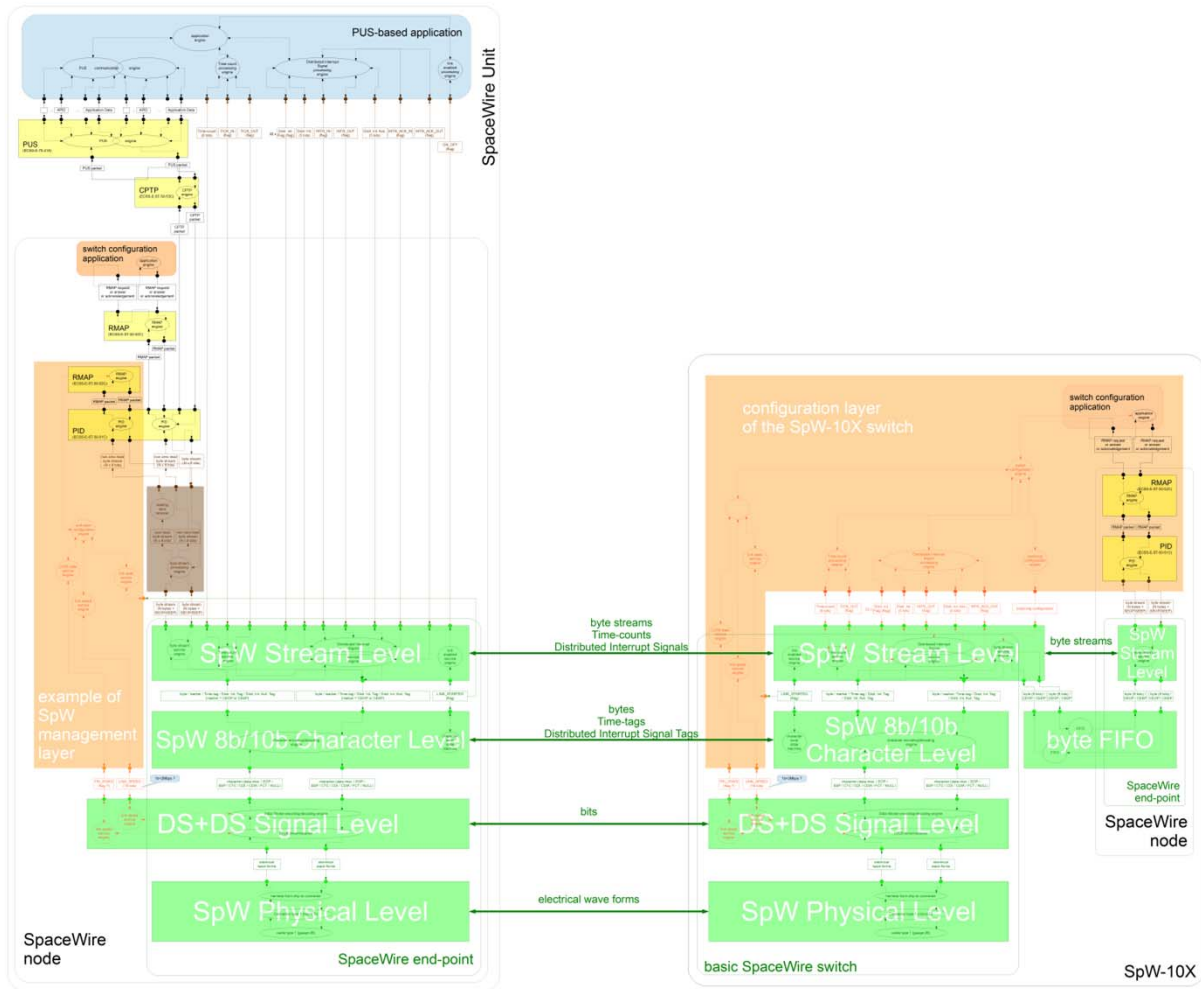
SpW internal and external stacks

(view 2 - RMAP configurable switch & configuring unit)



SpW internal and external stacks

(view 3 - SpW-10X & configuring unit)



1. Have the SpW internal stack stamped by ECSS
 - a. SpW higher level (Data Link) service definitions and SAPs
 - Validation wrt the SpW external stack and in particular the PnP needs
 - b. Interfaces between levels for the canonical SpW stack
 - Validation wrt existing non-canonical implementations (// ports of SpW-10X, SoC, SUAI & DLR Gigabit SpW, SpW low mass cable, etc.)
2. Present a consolidated SpW vs SpF Internal stack
 - a. with common service definition and SAP

Thank You