





## Status of SpW documents



- 4 Standards published in the E-50 branch (communications)
  - > E-ST-50-12C "SpaceWire Links, nodes, routers and networks" (31 July 2008) ["Benchmarking Cleaning" of E-50-12A, 24 Jan 2003] SpW basic set of requirements covering physical level up to network level
  - E-ST-50-51C "SpaceWire Protocol identification" (5 February 2010)

    It specifies protocol identification scheme to allow different protocols to operate concurrently over a spacewire network without interferences
  - > E-ST-50-52C "SpaceWire Remote Memory Access Protocol (RMAP)" (5 February 2010)

To configure a SpW network, to control SpW units and to gather data & status information from these units

> E-ST-50-53C "SpaceWire CCSDS packet transfer protocol" (5 February 2010)

To transfer CCSDS packets across a SpW network

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- ☐ These ECSS SpW standards have taken full advantage of the SpW WG inputs, expertise and products
  - e.g.: E-ST-50-51: based on "SpaceWire protocol ID Draft B (Jan 2005) E-ST-50-52: based on "SpaceWire RMAP Protocol Draft F (4 Dec 2006) developed by the SpW WG.
- □ The protocol standards were originally intended to be published as single doc (E-ST-50-11)
- **□** ECSS decided:

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- •to publish them as 3 separate documents (to easy future introduction of additional protocols with minor impact on the maintenance/update/use of the standards)
- •To dedicate to SpW the numeration code E-ST-50-5x and to number according the 3 protocol standards just issued

(E-ST-50-12 is intended to be renumbered as E-ST-50-5x doc at next issue)

□ No ECSS SpW handbook today envisaged

## **Use/Maintenance of ECSS SpW documents**





- **ECSS** community is committed to use these ECSS standards
- **ECSS** policy is to promote widest use of ECSS standards
  - **Doc are available and downloadable free of charge**
  - International Space community is encouraged to:
    - use the ECSS SpW standards
    - ...and provide feedback to ECSS for the maintenance of the published standards for the production of what needed and still missing.

So to achieve wide use of a single set of SpW standards (with avoidance of duplication by concentrating efforts rather than disseminating them in different, potentially diverging, initiatives).

## **Use/Maintenance of ECSS-E-ST-50-12C**



• E-ST-50-12C updating not yet in the ECSS Work-plan

- This WG is encouraged to:
  - take the initiative to assess if this is necessary,
  - and if so, to provide ECSS with rational, proposal and inputs for its updating
    - If major changes are necessary, a new version can be considered

Note: few CRs just received (2 from Nec Toshiba; 1 from Cea Saclay)