SpaceWire networking Protocol

Working Group Meeting 5

SpW Handbook

Do we need a handbook

How should it be prepared

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Available information and status

- ECSS-E50-12A   *Judged positively in general*
  - Physical level   *PCB layout issues, electrical*
  - Signal level   *Implementation issues, e.g. in FPGAs*
  - Character Level
  - Exchange level   *Link speed in asymmetrical cases*
  - Packet level
  - Network level   *Path vs Logical Addressing, Routers*

- Complemented by ECSS E50-11 (temporary reference for ECSS-E50-12A Part2)

- ESA SpW Web site (*new Web site under construction, old site to be removed asap*)

- Additional related recommendations : CCSDS SOIS *(still to be finalised)*

- Additional related information : SpW Codec IP core User Manual *(many support requests)*

- Additional related information; SpW devices Data Sheets and User Manuals *(e.g. SMCS332-SpW, SMCS116-SpW: many support requests)*

Capitalizing on experience, issues and their resolution

- Lies essentially within the WG, SpW devices designers and suppliers

- Is driven from problems encountered by SpW Users during all phases

- Can be linked to HW, SW, HW/SW Interfacing

- An output from Conformance testing ?

$\Rightarrow$ **Do we want to share the information ?**

$\Rightarrow$ **What would be the best way to share the information ?**

SpW Handbook: what is the best approach ?

- Make it a SpW WG undertaking ?

    - Nasa : to be covered by Industry

    - Jaxa : participation from industry

- Establish a repository of FAQs and FGAs, linked as far as suitable to the ECSS-E50-12A document(s)

- Regroup FAQs per category ? (general, implementation and device specific)

- Keep track of the FAQs originators and answers suppliers ?

- Screen questions and answers ?

- Formalize in a second step the Handbook (I.e. as an ECSS handbook, at least for the static part ?)

- Keep it rather informal and un-committing ?

- Have it structured by a responsible entity or rely on self-organization ?

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