

SpaceWire networking Protocol

Working Group Meeting 5

Inter-Agencies meeting

Ph. Armbruster TEC-ED

17AM 10:00-12:00 Inter-Agency meeting

- WG Steering Group
- SpW-SnP-RMAP
- SpW Handbook
- SpW Connector(s), Alternate connector to 9-pin MDM ?
- Cables for low speed applications
- Cooperation in common projects (Bepi Colombo, JWST)
- Conferences, publications, industrial involvement
- Next undertakings, other protocols, SpaceFibre
- Next meeting (date, scope)
- AOB

SpW Working Group Constitution (Mtg 5)

Steering committee

ESA (Chair)
Ph. Armbruster

JAXA/ISAS
T. Takahashi
M. Nomachi

NASA
G. Rakow
S. Allen

Coordinates/Approves PID allocations and supporting documents
Configuration management of in-preparation and published protocols.

Steering committee supported by:

SpW Standard(s) Editor UoD (S. Parkes)

SpW Working group contributors/participants:

- Agency projects representatives
- Representatives from Industry
- Experts

SpW-SnP-RMAP

- Draft D reviewed, comments from SE taken into account
- Comments during the meeting: editorial
- Interrupt handling (proposed by JAXA/MN) to be introduced in use case section
- No reference to “endian-ness”: when Words (addresses, data words) are transmitted, MSB is (always) transmitted first
- Only one word size per address space
- Action JAXA/MN : provide description Interrupt scheme (end Nov)
- Action UoD: Produce Draft E (Final draft) (end Dec)
- Action ESA: Post Draft E on SpW WG Web Site (end Dec)
- Action ESA: Setup meeting with ECSS secretariat (mid-Dec)

SpW Handbook

Make it a SpW WG undertaking ? No, WG will only be a contributor

Should be handled by a (to be created) “SpW User Association”

- Nasa: Potentially to be covered by Industry (Application Notes)
- JAXA: Participation from Japanese SpW User Group industry (JAXA + Industry)
- ESA: Handbook considered as really necessary
- UoD: Could be restricted to contributing organizations – should contain engineering guidelines

Considered as useful in general

Proposal to make it an undertaking of the “SpW-UGA: User Group Association”

Potential setup of a “SpW-PGA” SpaceWire: Products Group Association” to handle commercial information

Contributions, Handbook

ESA:

- ECSS Standardisation support
- ESA SpW Web site
- Contribution to the “SpW-UGA” funding

JAXA:

- JAXA SpW Web site
- JAXA contribution to the SpW-UGA funding

NASA

- “R. Katz’s” web site
- TBD

SpW Connector(s), Alternate connector to 9-pin MDM ?

- Action Nasa/SA
 - Provide or arrange for a technical note describing the W. L. Gore cable and connector (mid Jan 06)
 - Provide the rationale which led not to use the 9-pin MDM connector (mid Jan 06)

Cooperation in common projects (Bepi Colombo, JWST)

- Compatibility issue between products (specifically when not based on the same SpW Codec)
- Conformance Tester is a useful tool to validate SpW front-ends (input UoD)
- Space Cube can be used as a reference SpW controller/analyzer (EGSE) by Jaxa
- Space Cube is commercially available.

Conferences, publications, industrial involvement

- MAPLD 2006 (sept 06) organized by R. Katz . SpaceWire seminar (Last week Sept, Tuesday) (GR organizer of the seminar).

Next undertakings, other protocols, SpaceFibre

- UoD proposal: Reserve the following PIDs:
 - PID 02 : CCSDS TM/TC
 - PID 03 : CCSDS SOIS
- NASA: Look at Mil1553 over SpW.

Next meetings (date, scope)

- in Europe at **Estec** (!! New date as changed on 20/02/2006 !! 18th and 19th of May 2006)
- in US: September 2006 Monday the 25th or Friday 29th or around MAPLD