

# SpaceWire Working Group meeting #16, March 2011

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ESTEC, Noordwijk  
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# *Foreword*

## **The meeting will cover specifically the following topics:**

- SpW networks used for C&C and High Throughput Data Transfers (SpW-D) (Convenors Ph. Armbruster, ESA/ESTEC & S. Parkes, UoD)
- SpW Evolutions and Standard Revision (Convenors D. Jameux, ESA/ESTEC & M. Süß, ESA/ESTEC)
- SpaceWire backplanes (Convenors A. Senior, SEA & M. Nomachi, UoO)
- SpaceWire – PnP (Convenors G.Rakow, NASA/GSFC & P.Mendham, SciSys)

## **In addition, the other regular topics will be addressed:**

- SpaceWire related R&D activities (Convenor D.Jameux, ESA/ESTEC)
- SpW Deployment and Handbook (Convenor B. Cook, 4Links)
- SpW Test, Verification and “Certification” (Convenor Y. Sheynin, UoStPg)
- SpW Technology Promotion, SpW Brochure
- SpaceWire International Conferences: SpaceWire 2011

**14:00**    **Welcome and Introduction** (Philippe Armbruster, ESA/ESTEC)

**14:15**    **Session 1: SpW–D** (Convenor Ph. Armbruster, ESA/ESTEC & S. Parkes, UoD)

*Scope: SpW networks used for C&C and high throughput data transfers (SpW-D)*

**Discussions during the session dedicated to SpW-D will be:**

- structured according to the document attached hereby: [ESA-PhA-SpW-D Requirements and baseline V0-7](#)
- complemented by a contribution on Time distribution from Marko Isomaki, Aeroflex Gaisler
- moderated by a contribution from UoD on: [UoD-SP-SpW-D Protocol Trade-Off Criteria](#)
- and facilitated by an assessment made by Teletel: [TELETEL SpaceWire-D Baseline Considerations and Proposals v1](#)

**18:00**    ***End of day 1***

**Session 2: SpW Evolutions and Standard revision** (Convenors D.Jameux, ESA/ESTEC & M. Süß, ESA/ESTEC)

**09:00** Introduction/reminder on SpW evolutions, standard revision (SpaceWire Rev. D), backward compatibility, SpaceWire 2

**09:15** **SpW standard revision Part I**

**Scope:** *endorsement by the SpW Working Group of the Change Request dispositions proposed to ECSS. These dispositions are based on the outcome of the discussions during SpW WG mtg#15 Session 3.*

**12:00** **SpW standard revision Part II**

**Scope:** *elaboration and endorsement by the SpW Working Group of dispositions to be proposed to ECSS for the Change Request for which no disposition was agreed upon during SpW WG mtg#15 Session 3*

**13:00** **Lunch break**

**Support document:** [ECSS Change Request/Document Improvement Proposal](#)

## 14:00 SpW standard revision Part II (continued)

- SpaceWire SAPs proposal
- Presentation SUAI, V. Olenev

**Support document:** [SpaceWire SAPs proposal from SUAI](#)

- Proposal for Defining Standard Services Over SpW (T.Yamada, JAXA)

## 15:45 *Coffee break*

## Session 3: SpaceWire related R&D activities (Convenor D.Jameux, ESA/ESTEC)

### 16:15

- SpaceFibre Very High Speed Link Technology Demonstrator (M. Süß, ESA/ESTEC)
- Proposals on SpW Evolution (A.Khakhulin, Energia)
- MOST, SpaceWire traffic simulator (TAS France/D. Jameux, ESA/ESTEC)
- Low Mass SpaceWire (J. Ilstad, ESA/ESTEC)

## 19:00 *Joint dinner*

**Session 4: SpaceWire backplanes** (Convenors A. Senior, SEA & M. Nomachi, UoO)

**09:00 Introduction by the Convenors to SpW backplanes**

- **SpaceWire backplane development in Japan** (M.Nomachi, UoO)
- **SpaceWire backplanes ITT** (J. Ilstad, ESA/ESTEC)
- **SpaceWire backplanes** (A. Senior, SEA Ltd)
- **SpaceWire Active Backplane from the software user perspective** (P.Mendham, SciSys)

**10:30 *Coffee break***

## Session 5: SpaceWire PnP (Covenors G.Rakow, NASA/GSFC & P.Mendham, SciSys)

### 10:45 Introduction by the Convenors to SpW PnP

- Presentation and comparison of different approaches to SpW PnP (P. Mendham, SciSys)

Support document: [SpaceWire-PnP Review Comments](#)

## Session 6: Other topics

### 12:00

- SpaceWire Hand Book (Convenor B. Cook, 4Links)  
Support Document: [SpW Handbook presentation](#)
- SpW Products ESA brochure (M. Brestanska, ESA/ESTEC)
- SpaceWire International Conferences: SpaceWire2011 (San Antonio TX, USA)

### 13:00 *End of SpW Working Group meeting #16*



## 14:00 SpW WG Steering Committee Meeting

– Restricted to SpW WG Steering Committee members

*17:00 End of SpW WG Steering Committee Meeting*