



## SAVOIR UNION status ADCSS 2016



TEC-ED/SW ESA-ESTEC Data System & Software Division





- The SAVOIR-UNION Working Group has as main goal the definition of the functional, performance, operational and interface requirements of the functional links and their management.
- The SAVOIR-UNION Working Group relies on the outputs of the TRP activity “A New network paradigm for the On-Board Reference Architecture” or OSRA-Net. This includes an Analysis Report of communications on-board spacecrafts, a preliminary communication specification capturing needs of present and future missions and an the analysis of the impact on existing SAVOIR documents (ASRA, OBC, MASAIS).



# SAVOIR-UNION Members



Marek Prochazka	ESA TEC-SWS
Marco Rovatti	ESA TEC-EDD
Julien Galizzi (+Jean-Louis Carayon)	CNES
Frank Dannemann	DLR
Marco Panunzio and Brice Dellandrea	TAS
Jacques Séronie-Vivien	Airbus-DS
Michael Brahm	OHB-System
Christophe Honvault	ESA TEC-SWE



# OSRA-Net TRP outputs

## TN1: Analysis Report



- Topics
  - Analysis of the context
    - ASRA, OSRA, OSRA-P, OBC-Spec, SAFI, ...
  - Definition of terms
  - Analysis of present and future mission needs
  - Definition of an Abstract Model for communications
- Reviews
  - SAVOIR-UNION review held
    - 14 comments processed on first round (ESA and TAS comments excluded)



# OSRA-Net TRP outputs

## TN3: OSRA communication specification



- Topics
  - Communication system capabilities requirements
  - Heterogeneity and performance requirements
  - Error handling and FDIR requirements
  - System Communication requirements
  
- Reviews
  - TRP review held
    - 55 comments to be processed
  - SAVOIR-UNION review to be held in Nov-Dec 2016



# OSRA-Net TRP outputs

## TN4: Impact analysis on reference architectures



- Topics
  - Analysis of the possible impact of the OSRA-Net results on:
    - Avionics Function Reference Architecture (ASRA)
    - OBC-Specification
    - SAVOIR-MAS AIS specification documents
    - SAVOIR-FAIRE (OSRA) component model
  - Error handling and FDIR requirements
  - System Communication requirements
- Reviews
  - TRP review held
    - Few comments to be processed
  - SAVOIR-UNION review to be held

