



The Standards People

Cooperation on Global Standards in Satellite Communications

Presented by: Nicolas Chuberre, Chair – WG Satellite Communications & Navigation (TC-SES SCN)

For: 8th International summit of India SatCom 2022, 13-14 December 2022

14/12/2022 – 1605 – 1615 Hrs

WG on Satellite Communications and Navigation



This group covers radio and transmission aspects related to Fixed, Mobile, broadcasting and Global Navigation Satellite Systems operating in any bands allocated to FSS, MSS, BSS or RDSS. In particular:

- to produce and maintain harmonised standards for satellite earth stations
- to produce and maintain technical specifications for satellite radio interfaces
- to encourage spectral efficiency on satellite links and harmonisation of satellite radio interfaces
- to produce specifications that promote integration and inter-working between satellite and terrestrial networks
- It produces architecture and service requirements, interfaces (user, control and management planes), transport and network protocols, service enablers

Recent SCN WG activities



- **Technical reports**
 - TR 103 956 – “Technical analysis for the Radio Frequency, Modulation and Coding for Telemetry Command and Ranging (TCR) of Communications Satellites
 - TR 103 611 – “Seamless integration of satellite and/or HAPS (High Altitude Platform Station) systems into 5G system”
- **Harmonised standard**
 - EN 303 413: “Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1164 MHz to 1350 MHz and 1559 MHz to 1610 MHz frequency bands”
- **Technical specifications (revisions)**
 - TS 103 246 “GNSS based location systems” (Min performance and test specification requirements)

Recent SCN WG activities



Technical reports

- TR 103 956 – “Technical analysis for the Radio Frequency, Modulation and Coding for Telemetry Command and Ranging (TCR) of Communications Satellites
- TR 103 611 – “Seamless integration of satellite and/or HAPS (High Altitude Platform Station) systems into 5G system”

Harmonised standard

- EN 303 413: “Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1164 MHz to 1350 MHz and 1559 MHz to 1610 MHz frequency bands”

Technical specifications (revisions)

- TS 103 246 “GNSS based location systems” (Min performance and test specification requirements)

On going SCN WG activities



Technical reports

- WI DTR/SES-00456 “DVB-S2X/RCS2 VERSUS 3GPP NEW RADIO PROTOCOL TECHNICAL COMPARISON FOR BROADBAND SATELLITE SYSTEMS”

Technical specifications

- WI DTS/SES-00457 “INTERFACE BETWEEN RESOURCE CONTROL SYSTEM AND SATELLITE COMMUNICATIONS PLATFORMS”



Any further questions?

Contact me:

Nicolas.chuberre@thalesaleniaspace.com

