

## Goals and work program

The goal is to develop standards for space related applications in the following 10 topics:

1. Navigation and Positioning (NP) Receivers for Road Applications and Airport Services
2. Integration of Navigation and Positioning (NP) Applications with Telecommunications (TEL)
3. Data Format for Information Exchange in Systems of System (SOS) Environment (Earth Observation [EO], Navigation and Positioning [NP] and Telecommunications [TEL])
4. Interoperability and Integration of Mobile Satellite Systems (MSS) and Fixed Satellite Systems (FSS) with Terrestrial Systems, in particular Next Generation Networks (NGN), and with Global Navigation Satellite Systems (GNSS), in particular Galileo
5. Planetary Protection
6. Space Situational Awareness (SSA) Monitoring
7. Dual Use Ground Segment Interfaces in Earth Observation (EO)
8. Interfaces towards Earth Observation (EO) Downstream Services; Persistent Testbed, Conformance Testing and Fast Take Up Measures for EO Standards
9. Disaster Management
10. Payload Interfaces for Launchers

## Standardization – by experts for experts

The preparation of standards is a service offered by DIN and other National Standardization Bodies (NSB) to their stakeholders.

Standards are prepared at national, European and/or international level on submission of a proposal and after evaluation by the stakeholders. The content of the standards is not developed by the staff of the standards committee, but by the experts of the interested parties.

At present, approximately 200 experts from industry, science and research are shaping the content of aerospace standards by actively participating in the different working committees of the DIN Aerospace Standards Committee where they are involved in preparing new national, European and International Standards and updating the approximately 4,100 existing aerospace standards.

### Advantages of active participation:

- Strategic marketing instrument: direct influence on the technical contents of standards applicable at international, European and/or national level.
- Early recognition of developments, trends and market opportunities and thus reduction of the risks involved in research and development.
- Direct participation in the regulation of converging technologies.
- Establishing contacts to colleagues working in the same field or in different fields of interest as well as to competitors on a technically neutral basis.
- Using positive impulses to transfer knowledge to the market by timely standardization.
- Opportunity to successfully establish technologies and innovations in the market.



**Call for Experts**

for the new Technical Committee

**CEN/CLC/TC 5**

„Space“

**Interoperability of information,  
communication and  
navigation systems**

→ We are looking for experts from e.g. companies, organizations, institutions and universities who wish to actively contribute to the development of space standards and who would like to influence the content of future standards.

### Structure of CEN/CLC/TC 5 „Space“

#### Working Group 1

Earth observation including applications for navigation and positioning

#### Working Group 2

Space Situational Awareness (SSA) and planetary protection

#### Working Group 3

Payload interfaces for launchers

#### Working Groups under ETSI leadership (reporting of results to CEN/CLC/TC 5)

- Navigation and positioning receivers
- Interoperability and integration of MMS and FNS with NGN and GNSS (Galileo)
- Disaster management

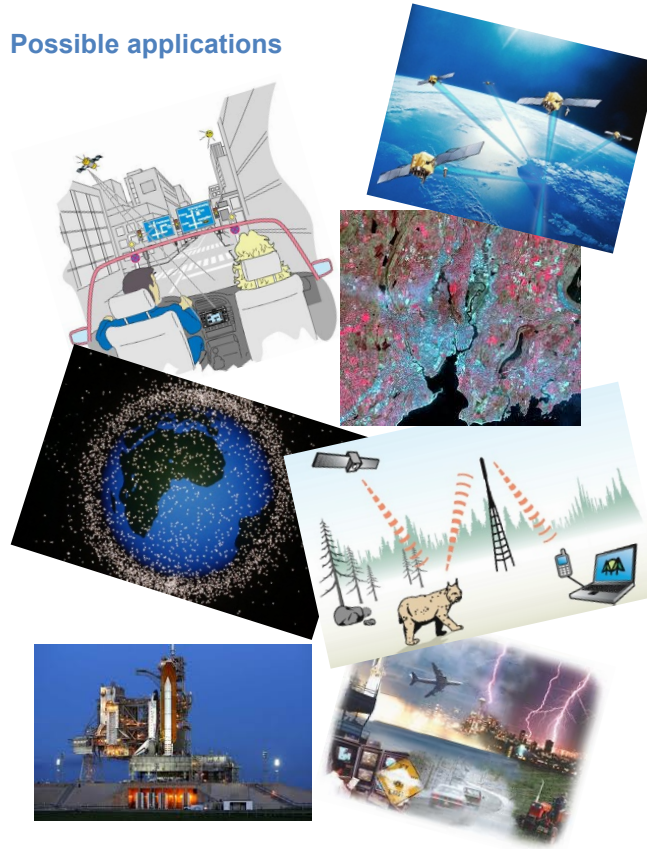
#### Chairman

Wolfgang Veith, ESA

#### Secretary

Kim Ihlow, DIN

### Possible applications



### Contact

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### History

#### ▪ Phase 1: (2007-2008)

Implementation of the Mandate M/415 „Programming Mandate addressed to CEN, CENELEC and ETSI to establish space industry standards“. Feasibility study of existing and missing standards related to space applications and preparation of a work program for future standardization activities for space related services.

#### ▪ Phase 2: (2008-2010)

Development of a work program by working group CEN/BT/WG 202 „Space“. A need for standardization of terrestrial applications, which use services provided by space systems, was identified.

#### ▪ Phase 3: (since September 2011)

Implementation of the Mandate M/496 „Mandate addressed to CEN, CENELEC and ETSI to develop standardisation regarding space industry (phase 3 of the process)“

→ the goal is the development of:

#### ▪ downstream standards

standards for exchange, processing and utilization of mission data in support of end user applications (to support terrestrial applications)

#### ▪ upstream standards

standards needed and to be used for the design, development, testing and operation of space and on-ground associated systems and products