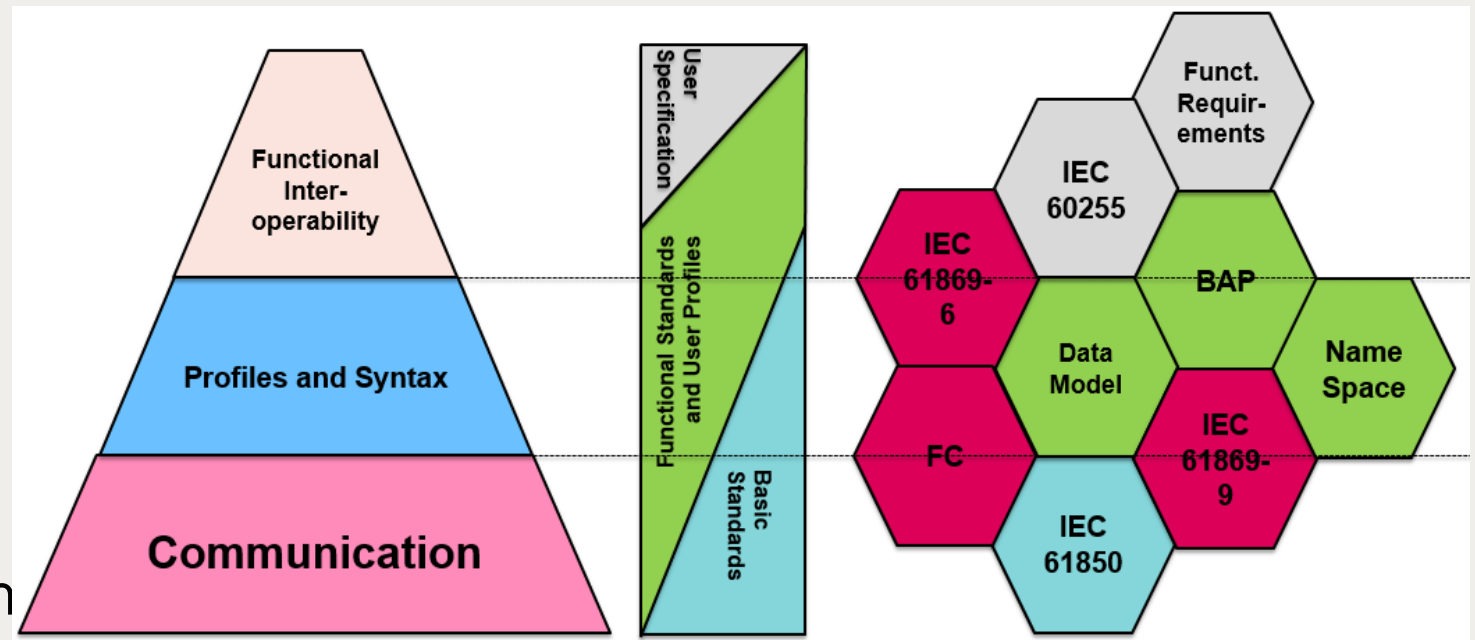# Rte R#SPACE – Interoperability

Committee B5 – Q2.01 -What are the challenges in the development of digital substations and how to address the problems caused by the digitalization?

Volker LEITLOFF - FRANCE

Interoperability Levels

- Rte is currently developing a digital PACS based on a modular architecture based on IEC 61850 called R#SPACE
- Rte acts as system integrator and is thus responsible for interoperability between the different components
  - Communication: IEC 61850
  - Profiles and Syntax:
    - Data models
    - BAP
    - Functional Standards
  - Functional interoperability: specification
  - Needs to be tested

Other Challenges: same configuration &supervision for all IED

- Seamless configuration
  - API based IED administration
  - Standardised supervision (LD based)
- Optimised Virtualisation
  - EMC
  - Environmental constraints
  - OS
  - Availability level adapted to functions
- Mastered cyber-security