



Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support



SVFuA The German SDR Program



Bundeswehr
Wir. Dienen. Deutschland.



Presentation Outline

- **Project Overview**
- **System Components**
- **Important Milestones**
- **Platform Integration**
- **Project Office**



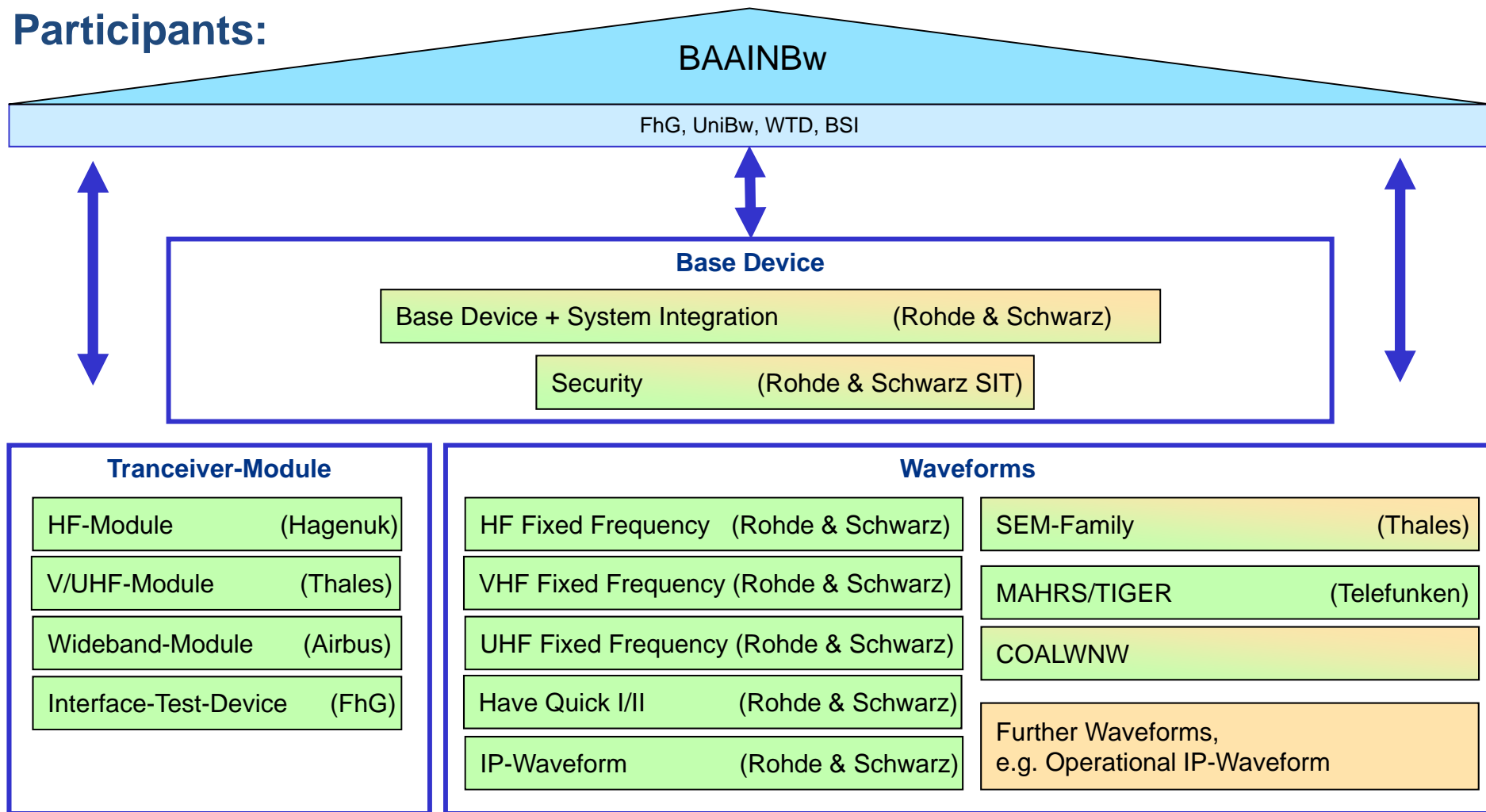
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Project Structure

Participants:





Major System Facts

- Integrated Sw-based INFOSEC-Module
- Frequency Range for each Transceiver Module:
 - Transceiver Module HF: 1.5 MHz – 30 MHz
 - Transceiver Module V/UHF: 30 MHz – 600 MHz
 - Transceiver Module Wideband: 600 MHz – 3 GHz

- SCA 2.2.2





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System Components (1)

Base Device



Transceiver Module HF



20W



40W



Amplifier 400W

Antenna Tuning Unit



OBISS



Base Device Carrier - 2L

Transceiver Module V/UHF



Transceiver Module Wideband





System Components (2)

- Network Management System (NMS)
- Security Management System (SMS)
- Waveform Development Platform
- Waveforms
 - Fixed Frequency HF (STANAG 4203)
 - Fixed Frequency VHF (STANAG 4204)
 - Fixed Frequency UHF (STANAG 4205)
 - HaveQuick I / II (STANAG 4246)
 - MAHRS / TIGER
 - SEM 80 / 90 / 93 ongoing
 - Operational IP-based networking waveform available





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Milestone in July 2013

- 2-Channel Configuration
- Connection to Service Device
- Connection to Network Management Station
- Waveform
 - FM3TR





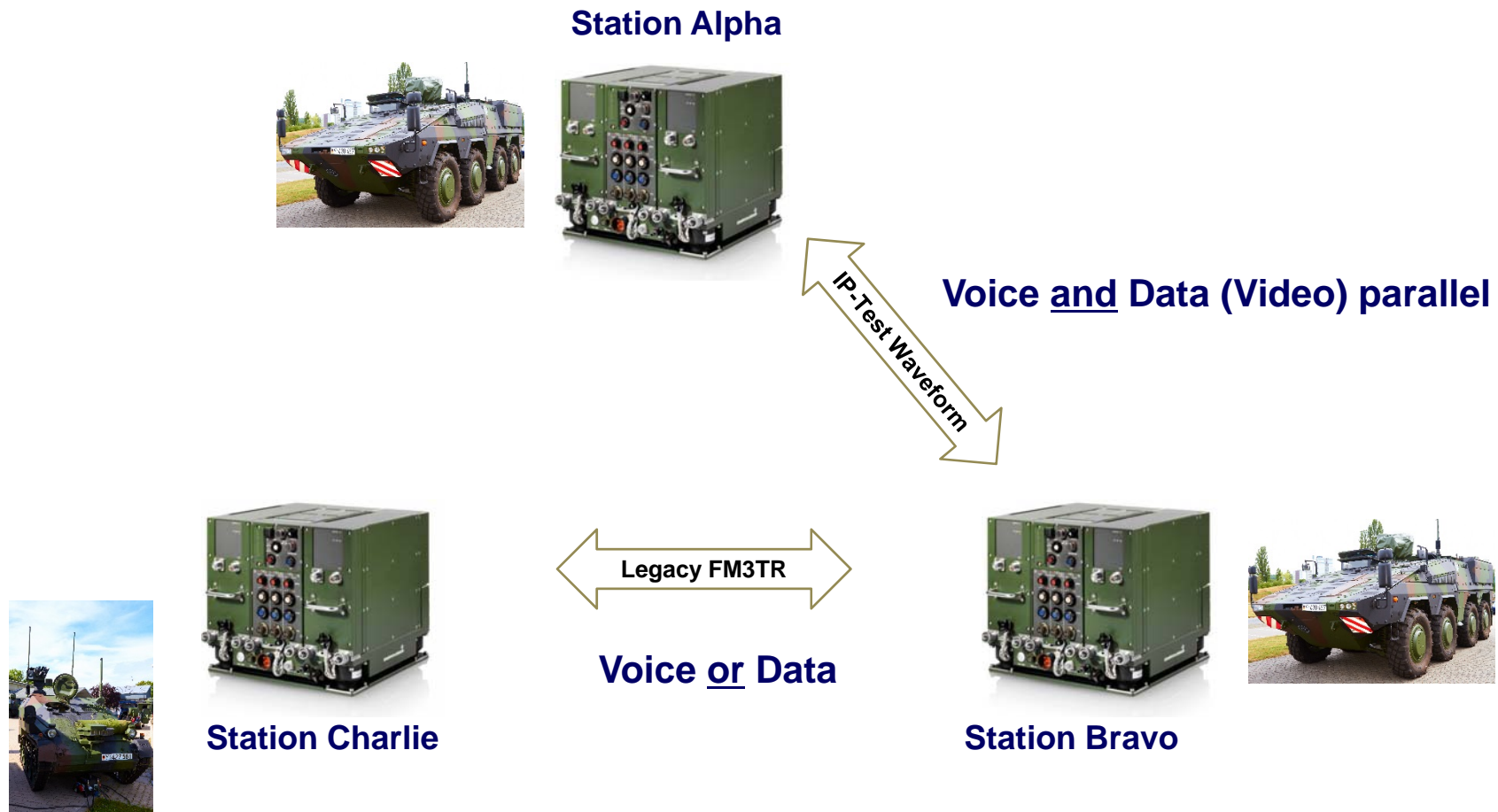
Milestone in March 2014

- 3-Channel Configuration
- Connection to Operator Device
- Connection to Security Management Station
- Waveforms
 - Have Quick I/II
 - Fixed Frequency 4203, 4204, 4205



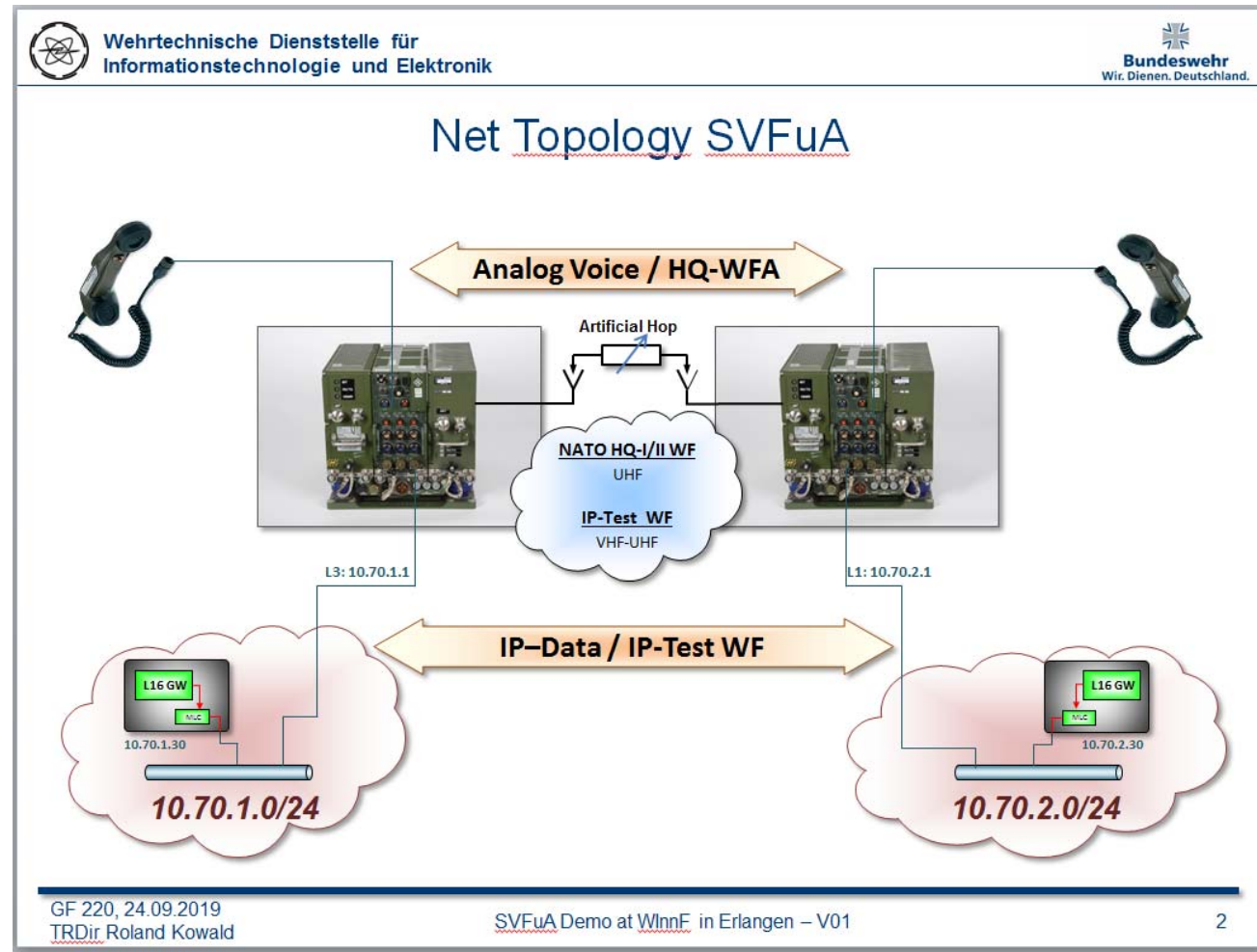


Demonstration in July 2014





Live Demonstration Today



- For more details, please visit our booth in the Exhibitor's hall



Milestone in May 2015

- Waveform
 - MAHRS/TIGER

first WF ported by contractor different from platform manufacturer!
- User tests and training
- Platform Integration, part 1

stowage concept tests in BOXER, WOLF, WIESEL II



Future: Milestones until May 2016

- Waveform
 - SEM
- Environmental Tests
- Further user tests and training
- Platform Integration, part 2
 - functional tests in BOXER, WOLF, WIESEL II
- Federal Office for Information Security (BSI) certification



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Exemplary Platform Integration

- Platforms:



Reconnaissance vehicle
here: C&C vehicle version



Light tactical armored vehicle
Here C&C vehicle version



Battle tank



Multi Mission small tank



Light armored patrol Vehicle
here: C&C vehicle version



Transport Tank



All-terrain transport vehicle



Multi role protected transport vehicle
Here: Command Post version



Armoured personnel carrier
here: C&C vehicle version



Infantry fighting vehicle
here: C&C vehicle version



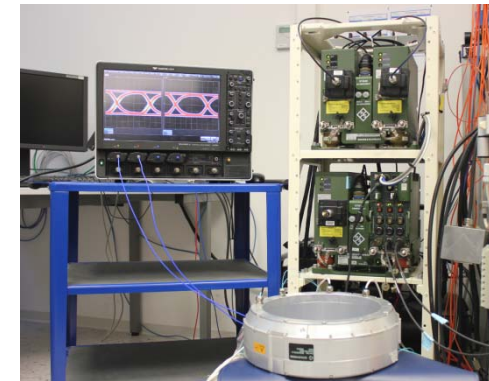
Exemplary Platform Integration

- Integration in vehicles

- | | |
|--------------|--------------|
| ■ PUMA | ■ ENOK |
| ■ BOXER | ■ DINGO |
| ■ LEOPARD II | ■ BV 206 S |
| ■ FENNEK | ■ WIESEL |
| ■ FUCHS | ■ (EAGLE IV) |

- Phases

- Electric/mechanic feasibility study
- Prototype integration in lab environment
- Prototype integration in vehicle





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Project Office

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Thanks for your attention!
Questions?