

**Alexander von Erdmannsdorff**

VP Government Business / Regional Sales  
Member of the Board, RUAG GmbH

Alexander.vonErdmannsdorff@ruag-de.com

Address RUAG GmbH, Voßstraße 23, 10117 Berlin  
Direct +49 30 2061 688 10



**Stefan Hitz**

Senior Innovation Manager  
Technology & Services, RUAG AG

Stefan.Hitz@ruag.ch

Address RUAG AG, Schaffhauserstrasse 580, 8052 Zürich, CH  
Direct +41 79 6033536



## Air

### Air Systems



- Jet & missiles
- Helicopters
- Propeller aircraft & unmanned aerial vehicles



- Engine systems
- Aviation subsystems
- Simulation, integration and test systems
- Engineering

## Ground

### Guidance and reconnaissance systems



- Tactical communication
- Public safety systems
- Services
- Guidance systems
- Reconnaissance systems
- Surveillance systems

### Vehicles and weapon systems



- Integration solutions
- Protection solutions
- Indirect fire
- Air defense

## Technology & Services

### Innovative Technology Services & Solutions



- Innovation & Technology
- ICT-Services
- Marketing & Sales
- SCM-Services
- Business Services & QSSE

## Life-cycle Management

## Maintenance, repair, upgrade

## Products

# RUAG Tactical Communication



From stand alone installations to integrated systems and wide area networks

**RUAG TaCom Platform** for **integration of the customer's communication infrastructure** to allow:

- Voice/Data interconnection of radio networks
- Distributed and mixed radio/ telephone conferences.



## **TAN with base-software:**

- Fixed and partly mobile
- Ready for 19" rack integration



## **Radio Bridge Base-Software**

- running on TAN/ TVS
- requires RATA interface card

## **Further Base-SW elements:**

- TTEL (tactical telephony solution)
- TMSG (tactical messaging)
- TMESH (multi knots tactical networking)



## **TVS with base-software:**

- Ready for vehicle integration

**RUAG TaCom:**    > **Solution-Engineering**  
                         > **System-Integration**

**TAN integrated in 19" rack with power supply:**

- Used as exchange communication node
- As central communication site for multinational missions, allowing interoperability between different commutation devices

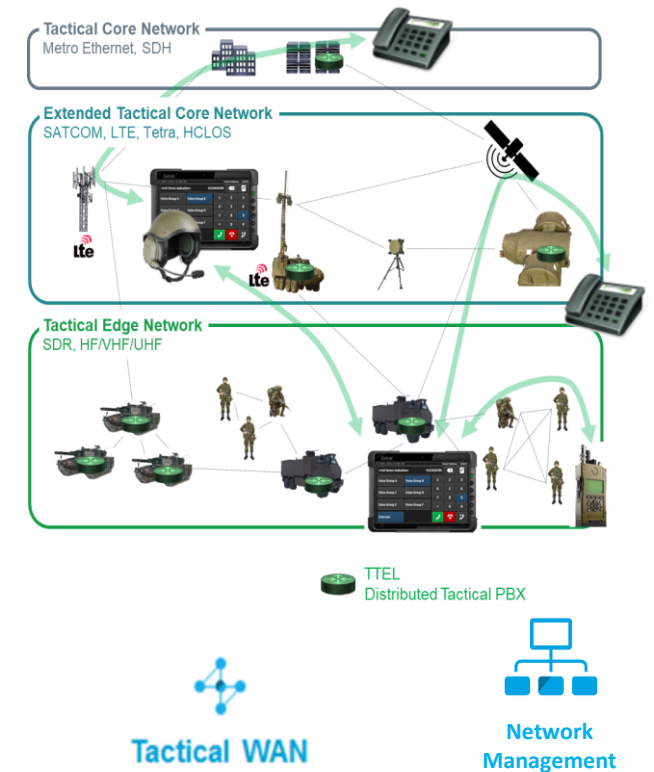
**TVS as platform for central vehicle data management:**

- Vehicle communication platform SOVERON-Solution
- Integration of all vehicle systems



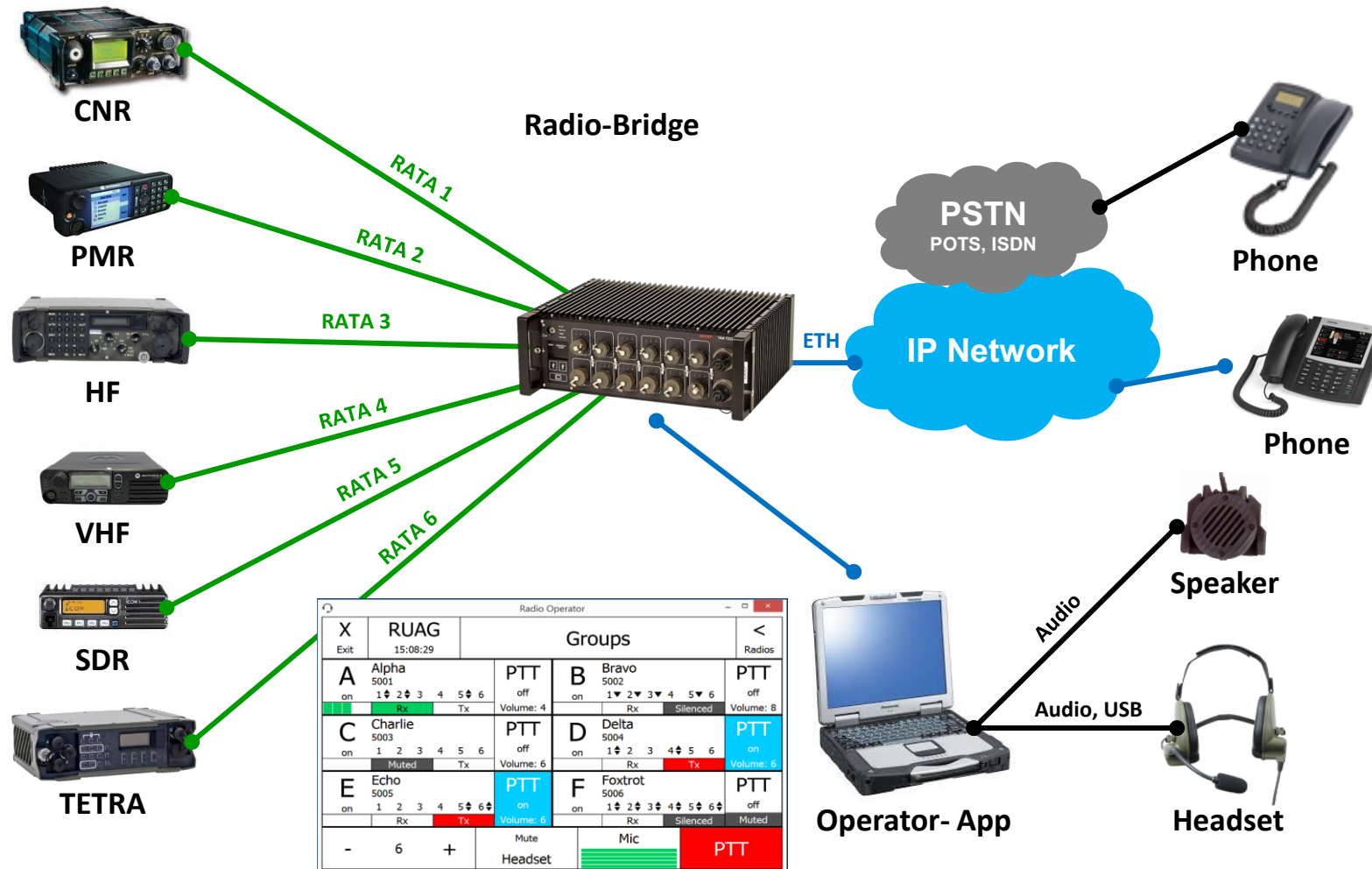
## **Network of multiple TAN/TVS**

- Enable exchange of data over standard and RUAG routing protocols (**TMESH**), over different communication networks.



# RUAG TaCom Integration

## Federated Missions thru RadioBridge



- Integration of any kind of analog radio and analog telephony.
- Inter-Connecting the analog legacy communication infrastructure with the digital IP world.
- Interoperability and control via Radio Operator App.
- Typical use case: Federated Missions, Enabling communication over all authorities and networks, natural disaster



# RUAG TaCom Integration

Voice interoperability and scalability example:



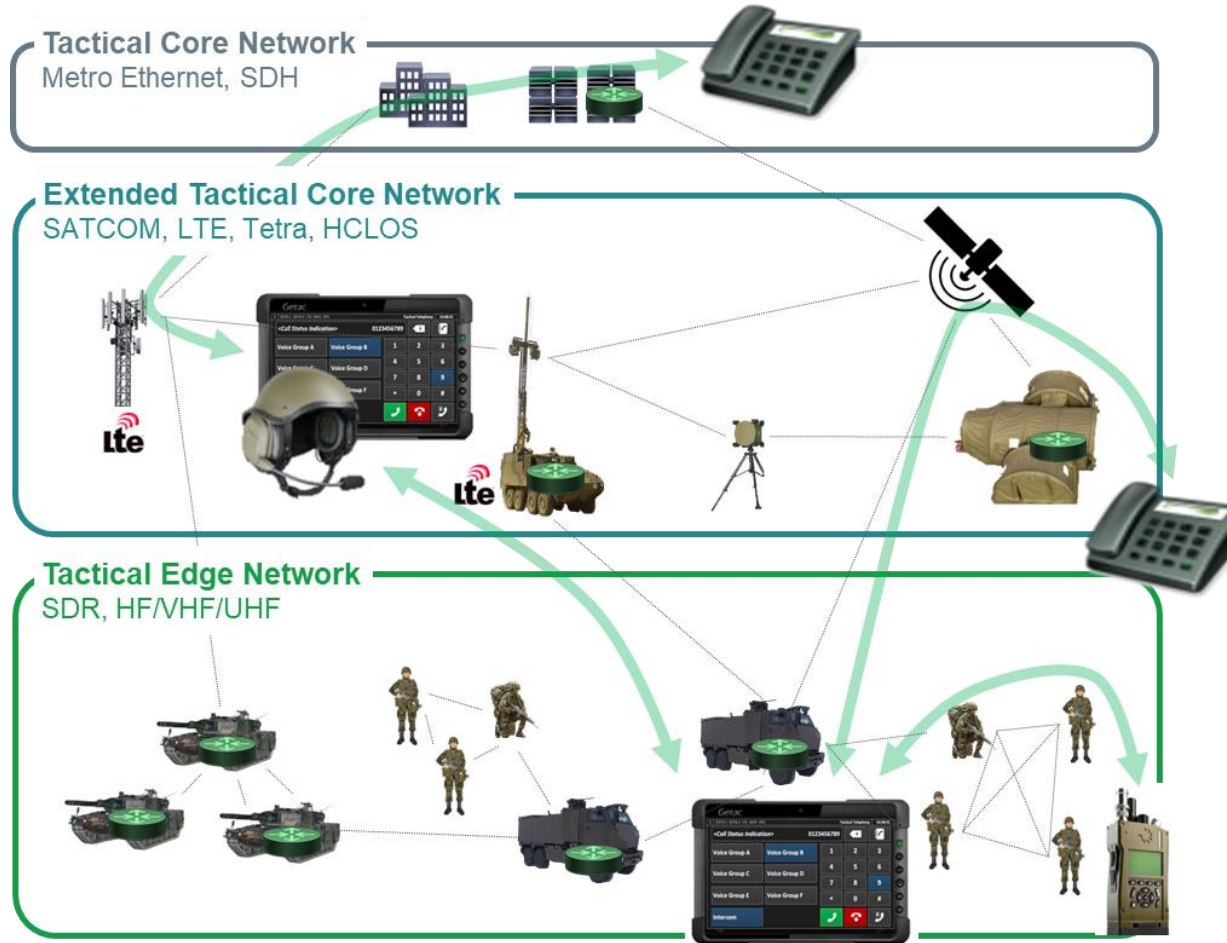
## At a Command Post:

- **Telephone Switch (PBX)** for IP and analog telephones
- **Zero-Touch** phone provisioning
- Up to **1000 users**
  
- **Seamless Connectivity**
- Radio / CNR
- Intercom
- GSM / LTE
- SATCOM / LOS

# RUAG TaCom Integration



Voice interoperability and scalability example:



## Interconnection from the green field up to the core infrastructure:

- **Auto-Peering**  
automatic establishment of multi-node telephony network
- **User Mobility**  
users can login at any terminal
- **Low Bit-Rate VoIP**  
3 kbps per call
- **Auto-Gateway**  
automatic selection of best gateway into foreign telephone systems