



German Air Force Headquarters

Cross Domain Information Exchange during DEU Exer "Timber Express 2018"

SMSgt (OR-8) Dirk Ritter TDL Manager















➤ DEU Air Force since 1993

Introduction

- > 1993 2003 CRC Sweetapple, Surveillance Section
- > 2003 2015 German Air Operation Command
 - Branch Info Management & DEU Air Force TDLMC
- > 07 2015 German Air Force Headquarters, TDL Assistant





Exercise Setup	
Challenges	
Benefits	
Summary	
Questions	



March 26th -29th

Start set-up

(National)

April 03rd - 06th

Main set-up

April 09th - 20th

Live Link / Experimental Phase



Live Link 16

- Use of NLD Exercise Frisian Flag (FF) 2018
- Datastream (JREAP-C) to Hanscom Air Force Base (HAFB), USA
- Secure Gateway (Infodas)
- Training for SMEs

2. Experimental Phase

- Link 16, Link 22, VMF, CESMO, JREAP-C, Common Operational Picture,
 DaCAS Gateway, Helo SIM
- Viasat, Tactical Communication Group, Northtrop Grumman, Hensoldt, Peraton, IBM Germany, Atlas Electronics, General Dynamics, Atheniem, Fraunhofer, DEU SpecFor, DEU AF JTAC, DEU Navy, Bundeswehr Cyber Security Center, DEU Technical Center for Information Technology & Electronics

3. TDL Manager Course i.a.w. ADTLP 5.55 (Practical Phase)

6 Participants (Army, Air Force, Navy)

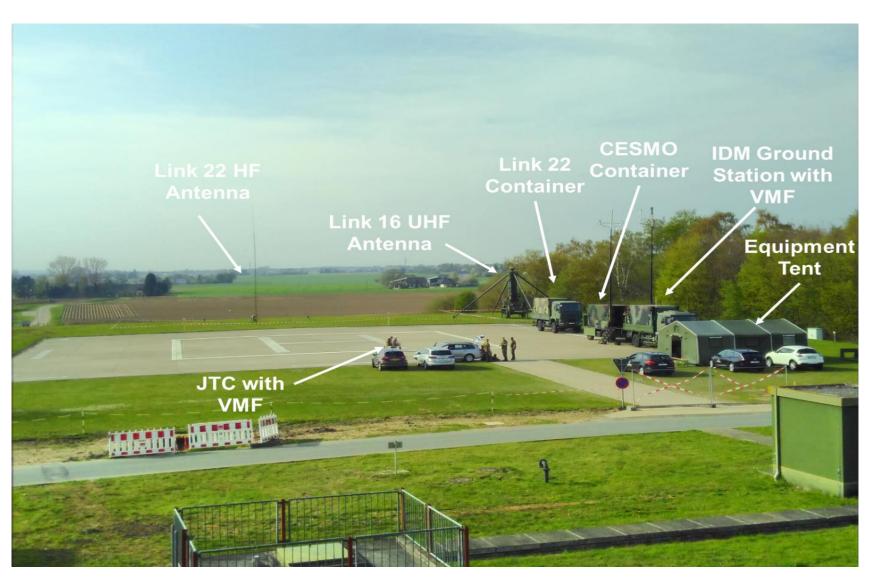
4. Policy "Strategic"

"Liaison" HAFB

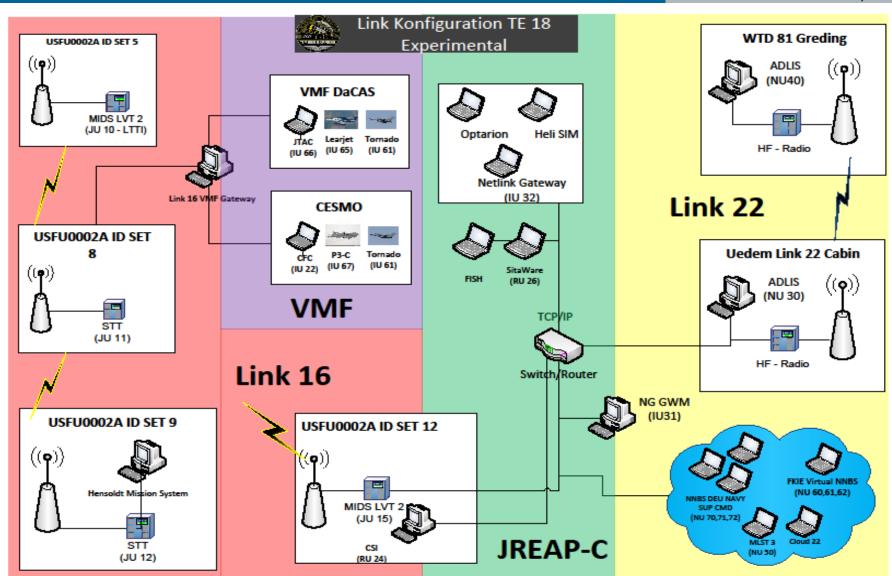












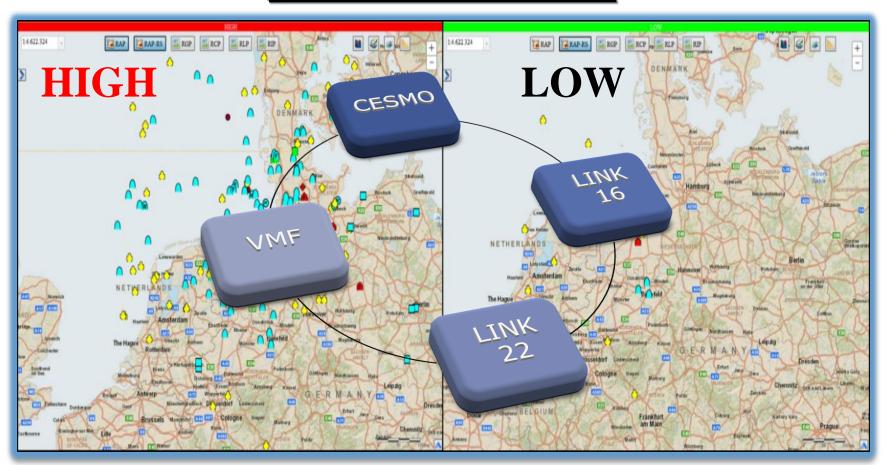






Challenges

"Bring together multiple Data Link standards into "different" Domains"



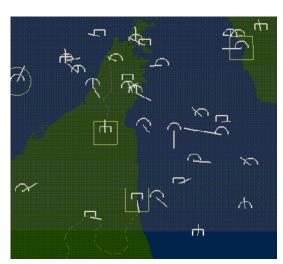


Requirement: Structured Data Link

- "Forwarding" (transfer) Air Picture
 - e.g.Target Information without Identification and Source
- Support by Co-operated ESM Operations or Tactical Air Reconnaissance
 - e.g.Own Position (PPLI) and Special Point

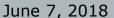


Challenges











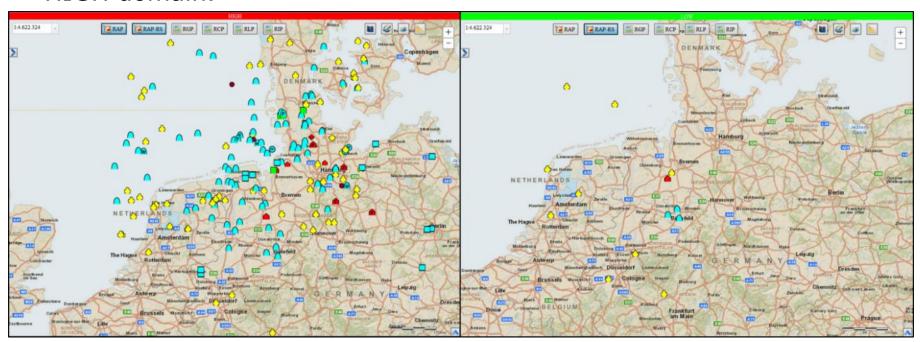
Visualization of L16 tracks in different security domains.

HIGH

- Display of all tracks based on Jmessages, incl. PPLI.
- Complete air picture available in HIGH domain.

LOW

- Display of filtered air picture.
- Track information is not present in LOW network.



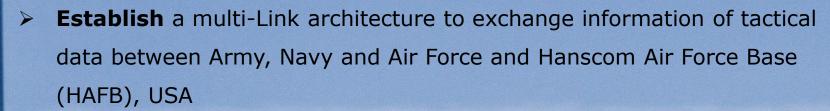


- Provide crucial operational information to users outside or different TDLs.
- > **Improve** COP of all players.

Benefits

- Improve knowledge of operators.
- > Improve/Establish Interoperability.





- Remote control of DEU MIDS LVT out of HAFB via secure Internet connection
- > Integration of Link 22
- Forwarding between Link 16, Link 22, VMF & CESMO
- Integration of experimental/simulation Systems, e.g. Helo SIM
- Improve knowledge of operators
- > Improve/Establish Interoperability.
- Graduation of 6 DEU TDL Managers
- Planning for TE 19 in progress









German Air Force Headquarters

Branch 2 III b - TDL / ID / M&S / OR KdoLw2IIIbTDLIDSIM@Bundeswehr.org General-Steinhoff-Kaserne Kladower Damm 182 D-14089 Berlin (Germany)

