



Cargo



ATO Betuweroute

Working Group - Overview



19.12.2022

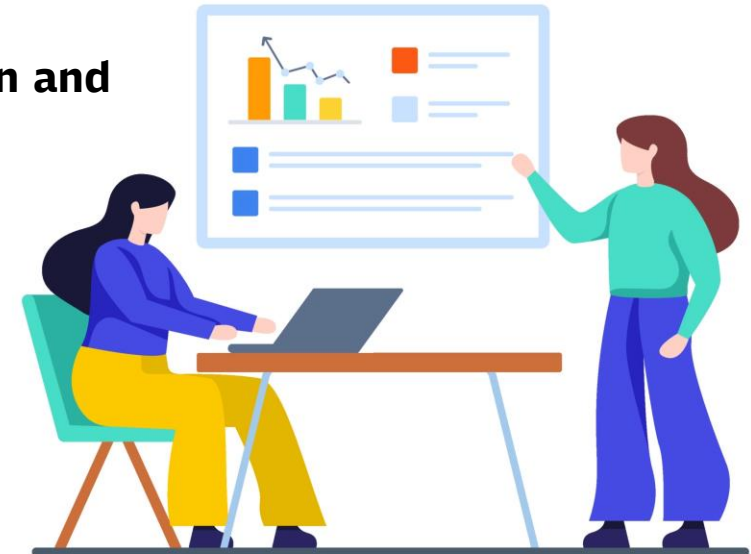


Working Groups Overview

WORKING GROUPS	DB Cargo LEAD	DB Cargo LEAD CONTACT
Human Factors	Daniel Gaszczak	Daniel.Gaszczak@deutschebahn.com
Safety, Approval & Security	Dirk Leinhos (ggf. Tobias)	Dirk.Leinhos@deutschebahn.com
Specification	Baseliyos Jacob	baseliyos.jacob@deutschebahn.com
Operation Concept & Driving Rules	Daniel Gaszczak	Daniel.Gaszczak@deutschebahn.com
Vehicle Integration	Thorsten Gerlach	thorsten.gerlach@deutschebahn.com
Testing	Thorsten Gerlach	thorsten.gerlach@deutschebahn.com

General rules and guidelines for the working groups

- All expert group meetings will be **scheduled and executed by DB Cargo**
 - If DB Cargo lead is not available, the meeting will either be **canceled, shifted, or executed by the deputy of the lead**
- In case you can not participate, please notify the lead and deputy **24 hours prior to the meeting**
 - Please also name a deputy that can represent you
- The lead and deputy are in charge for the **protocols as well as the documentation and tracking** of the to-dos
- Protocols and to-dos will be sent out latest 24 hours after the meeting
- We want to **timebox the meetings**, so we start and end meetings on time
- Stay on the topic and be prepared for the meeting
- Silence = Agreement
- Make sure to be **punctual** to the meeting
- **Turn camera on** (if technical background allows)
- We all want to **have fun!**



GOALS & TOPICS

- Requirement Assessment
 - Operational Environment
 - Human-Machine-Interface
- Design Concepts control environment
 - Two stage prototyping process for operational environment and human-machine-interface
- Human Factors during implementation
 - Support for the supplier to ensure requirements are incorporated in user-friendly way
- Usability Test
 - Testing the suppliers RSC workplace
- Evaluation
 - Procedure
 - Implementation
 - Analysis
 - Guidance

OUT OF SCOPE

- tbd

Human Factor – Dates & Participants

DATES

Start: End January 2023

Frequency: tbd in first meeting

Duration: tbd in first meeting

PARTICIPANTS

DB Cargo

- **Lead**
- **Deputy of lead**
- Expert
- Expert
- Expert
- Expert

Daniel Gaszczak

Thorsten Gerlach

Niels Brandenburger (DLR)

Lido Costa

Laura Quante

Thorsten Kühnapfel

daniel.gaszczak@deutschebahn.com

thorsten.gerlach@deutschebahn.com

Niels.Brandenburger@dlr.de

lido.costa@iinet.net.au

laura.quante@dlr.de

thorsten.kuehnapfel@deutschebahn.com

GTS Deutschland

- tbd

REMOOT

- tbd

Jeroen Lebouille

jeroen@mobility42.nl

GOALS & TOPICS

- risk management procedure (RMP) covers all
 - safety issues and security issues
 - RMP is closely aligned with the AMP
 - involving the AsBo
- approval management procedure (AMP) and involving the NoBo and DeBo
- necessary documents for evidence for independent assessment by AsBo to achieve the exemption approval of test runs in 2025
- safety plan (including the safety and security issues) → process until the revert to pre-state!
- approval plan
- description of all changes
- significance check, checking the safety-relevance
- requirements capture (at least TSI, RIS, EN → what else ? → operational regulations)
- system definition
- hazard identification, considering the preliminary hazard log
- risk estimation and evaluation
- safety-/security-related requirements, safety-related application conditions (SRAC) for the test runs
- reports of verification and validation
- compilation of all evidences for assessment done by AsBo
- monitoring reports while the test runs

OUT OF SCOPE

- risk management for project risk, organisational risks, contract risks,

Safety & Security, Approval – Dates & Participants

DATES

Start: 2. Week of January 2023

Frequency: Bi-Weekly JF
Weekly Working Meeting

Duration: 1h for Bi-Weekly JF
2h for Weekly Working Meeting

PARTICIPANTS

DB Cargo

- **Lead**
- **Deputy of lead**
- Operational expert
- Operational expert
- Operational expert
- approval manager

Dirk Leinhos

Lido Costa

Thorsten Gerlach

Roy Germain

Daniel Gaszczak

Baseliyos Jacob

dirk.leinhos@deutschebahn.com

lido.costa@iinet.net.au

thorsten.gerlach@deutschebahn.com

roy.germain@deutschebahn.com

daniel.gaszczak@deutschebahn.com

(preliminary responsibility)

GTS Deutschland

- Safety manager
- Approval manager
- Advisor safety/approval
- Safety/security expert
- tbd

Vladimir Labaj

Kreisimir Cacic

Timo Strobel

Wolfgang-Reza Sharavi

Cristiana Perlongo

vladimir.labaj@urbanandmainlines.com

kresimir.cacic@urbanandmainlines.com

timo.strobel@urbanandmainlines.com

wolfgang-reza.sharavi@urbanandmainlines.com

cristiana.perlongo@urbanandmainlines.com

REMOOT

- safety manager
- security expert

Jørgen Heinrich

Niels van Damme

jorgen@mobility42.nl

niels@otiv.ai

GOALS & TOPICS

Scope & Goals

- Reference Architecture
- Interfaces between Lot 1 & Lot 2
- Define artefacts and specification content and structure
- Train Interface with Lot 1 (Lot 2)

Milestones/deliveries

- Align on reference architecture (see annex F)
- Define critical interfaces between Lot 1 and Lot 2 incl. Vehicle interface (see annex F)
- Define applied standards & versions (see annex F)
- Gap Analysis of standard interfaces & tbd interfaces
- Define artefacts and documents delivery, process, orga, structure (see annex D.1 and A.4 of the contract)

Current status/ problem statement

- Deliver reference specification for European standard
- Define organisation and process for spec
- Create artefacts and documents for spec

Risks:

- Different spec approaches in each company

OUT OF SCOPE

- ATO TS
- ETCS Kernel

Specifications – Dates & Participants

DATES			
	Start: End January 2023 KW 4	Frequency: Bi-Weekly	Duration: 3 hours
PARTICIPANTS	DB Cargo		
	– Lead	Baseliyos Jacob	baseliyos.jacob@deutschebahn.com
	– Deputy of lead	Roy Germain	roy.germain@deutschebahn.com
	– Expert	Daniel Gaszczak	daniel.gaszczak@deutschebahn.com
	Expert	Lido Costa	lido.costa@iinet.net.au
	Expert	Thorsten Gerlach	thorsten.gerlach@deutschebahn.com
	Expert	Fritz Köck	koeck-consulting@fritz-koeck.de
	Expert	Thorsten N.N.	thorsten.kuehnapfel@deutschebahn.com
	GTS Deutschland		
	– Expert	Wolfgang-Reza Sharavi	wolfgang-reza.sharavi@urbanandmainlines.com
	– Expert	Cristiana Perlongo	cristiana.perlongo@urbanandmainlines.com
	– Expert	Gernot Kuffler	gernot.kuffler@urbanandmainlines.com
	REMOOT		
	– Expert	Jørgen Heinrich	jorgen@mobility42.nl
	– Expert	Niels van Damme	<u>niels@otiv.ai</u>
	– Expert	Philipp Goetz	philipp.goetz@rse-rail.com

GOALS & TOPICS

- Describing the Operational Environment for ATO Operated Trains
 - Describing today's available infrastructure and its foreseen operational changes to make ATO feasible
 - Stating operational roles and responsibilities
 - Clarifying roles in an ATO operated environment
 - System description
- ATO Onboard Operation
 - System description for operational purposes
 - Description of human-machine-interface
 - Stating Rules for normal, fall back and emergency operation
- RSC Operation
 - System description for operational purposes
 - Description of human-machine-interface
 - Stating Rules for normal, fall back and emergency operation

OUT OF SCOPE

- tbd

Operation Concept & Driving Rules – Dates & Participants

DATES

Start: End January 2023

Frequency: Every two month

Duration: 1 hours

PARTICIPANTS

DB Cargo

- **Lead**
- **Deputy of lead**
 - Expert
 - Expert
 - Expert
 - Expert

Daniel Gaszczak
Thorsten Gerlach
Lido Costa
Roy Germain
Niels Brandenburger
Thorsten Kühnapfel

daniel.gaszczak@deutschebahn.com
thorsten.gerlach@deutschebahn.com
lido.costa@iinet.net.au
roy.germain@deutschebahn.com
niels.brandenburger@dlr.de
thorsten.kuehnappel@deutschebahn.com

GTS Deutschland

- Expert
- Expert

Wolfgang-Reza Sharavi
Timo Strobl

wolfgang-reza.sharavi@urbanandmainlines.com
timo.strobel@urbanandmainlines.com

REMOOT

- Expert

Philipp Goetz

philipp.goetz@rse-rail.com

GOALS & TOPICS

Scope & Goals

- Integration of Lot 1 and Lot 2 in vehicle
- Definition of available space in vehicle
- Creation of an integration concept
- Integration of vehicle functions
- Integration of RSC functions

Milestones/deliveries

- Integration concept
- Integrated lot 1 and lot 2
-

Current status/ problem statement

- Vehicle not procured

Risks:

- Limited space
- Complexity of integration

OUT OF SCOPE

- tbd

Vehicle Integration – Dates & Participants

DATES

Start: End January 2023

Frequency: Once per month

Duration: 1 hours

PARTICIPANTS

DB Cargo

- **Lead**
- **Deputy of lead**
 - Expert
 - Expert
 - Expert

Thorsten Gerlach
Roy Germain
Baseliyos Jacob
Fritz Köck
Thorsten Kühnapfel

thorsten.gerlach@deutschebahn.com
roy.germain@deutschebahn.com
baseliyos.jacob@deutschebahn.com
koeck-consulting@fritz-koeck.de
thorsten.kuehnafel@deutschebahn.com

GTS Deutschland

- Expert
- Expert
- Expert

Wolfgang-Reza Sharavi
Cristiana Perlongo
Angelika Barth

wolfgang-reza.sharavi@urbanandmainlines.com
cristiana.perlongo@urbanandmainlines.com
angelika.barth@urbanandmainlines.com

REMOOT

- Expert
- Expert

Philipp Goetz
Jørgen Heinrich

philipp.goetz@rse-rail.com
jorgen@mobility42.nl