ELISA
Enabling **Linux** in **Safety** Applications

BOF: Linux & OSS for safety applications in Railways

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Proposal:

Ideas can include…

- Make OSS usable on a large scale for the railway sector.
- Low competitive differentiation in the use of generic products,
- Collaboration of various stakeholders from the sector
- Governance of a Foundation can useful and important.

This BOF wants to explore,..
if there is a critical mass to start a <u>foundational backed project initiative</u> for better spread of awareness for OSS in Railways and which activities exist <u>to expand this approach for the safety-critical parts</u>.

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Topics of a WG may include, but are not limited to:

- Acceptance of Global Standards (as described in OCORA BWS09-010)
- Compliance of FOSS to EN 50716 and the Technical Specifications for Interoperability (TSIs)
- Modular safety-related systems (as by OCORA and Europe's Rail projects)
- Inform ongoing initiatives of the requirements of the railway sector
- Analyzing feasibility of ABI-compatibility between Linux Distribution releases
- Service based Safety Architecture
- Opportunities for Open Source Cooperation
- Onboard SIL2 applications

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Collaborative editing

https://semestriel.framapad.org/p/fosdem-railways-bof

Copy QR code and participate in taking notes
and sharing your thoughts.

Don't miss the Railways and Open Transportation Devroom today! ☐ K.3.601 from 14:30 to 19:00

Welcome to the Railways and Open Transport Devroom	Max Mehl, Cornelius Schumacher, Simon Clavier, Loic HAMELIN, Brede Dammen, Peter Keller, Felix Gündling, Tu-Tho Thai	14:30	14:35
Digital disruption in the public transport sector through open source community engagement	Glenn Eriksson	14:35	15:00
Europe's New Mobility Architecture: MMTIS, NAPCORE, TSI Telematics and the Future of Multimodal & Railway Standards	Stefan Jugelt, Yann Seimandi	15:00	15:25
Awesome NAPCORE Tools: A Community Registry for European Mobility Data Tools	Brede Dammen, Jan Vlčinský	15:25	15:30
the Mobility Database	Isabelle de Robert	15:30	15:50
The state of open data in Czech public transport	David Koňařík	15:50	16:15
From first FLOSS Poznań public transport app to global coverage with Transitous	Adam Pioterek	16:15	16:20
Crowdsourcing Delay Information	Jonah Brüchert	16:20	16:25
DB InfraGO's OpenStation: NeTEx + SIRI for railway stations	Julius Tens	16:25	16:35
OTP Finds a way	Jonas Lindström	16:35	16:55
Probabilistic Turn-By-Turn Directions for Public Transport	Robin Durner	16:55	17:15
Citybikes: scraping the world for bike sharing data so you don't have to	Lluis Esquerda	17:15	17:35
Scaling Mobility Flow Visualization: Origin-Destination Data with DuckDB, Flowmap.gl, and SQLRooms	Ilya Boyandin	17:35	17:55
Promoting a consistent open source workflow for railway analysis by connecting OSRD and SUMO	Bastian Ehrenholz, Paula von der Heide	17:55	18:15
Automated short-term train planning in OSRD: from POC to production	Eloi Charpentier	18:15	18:40
HackerTrain: the first real (and distributed) train trip from N places on M routes to Brussels	Matija Šuklje	18:40	19:00

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