Next stops for European Rail

Rail Research and Innovation to Make Rail the Everyday Mobility

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European DAC delivery programme:

An open platform for Full Digital Freight Train Operations

- DAC is more than just a coupler
- DAC is a key and unique enabler for numerous applications
- DAC is not a stand-alone technology but the backbone for “full digital freight train operations” to achieve the ambitious transformation in European rail freight
- This will allow the DAC to enable even more use cases and to generate a max. possible benefit
EDDP state of play

› EDDP participation continuously increased > 80 companies from 20 European countries

› DAC target operational procedures for the first DAC use cases ready first time ever in Europe

› EU-Rail Flagship Project 5 (FP5-TRANS4M-R, 2022-2026) awarded & started 27 beneficiaries/71 partners

  › DAC specification “mechanical/pneumatical”, “energy”, “communication”
  › Demonstration of Digital Freight Trains in 2025 with DAC Type 4 & 5 incl. Energy and Data Supply, Hybrid Coupler and automated brake test (TRL 8)
  › Preparing further development of Full Digital Freight Train for future demos

› Operational DAC tests took/are taking place in European countries S2R, DAC4EU, etc.

› Development of solid and feasible migration scenarios first time ever in Europe

› Cost-Benefit Analysis (first iteration) contracted by the EC

› European Investment Plan for DAC contracted by the JU (soon published)
Europe’s Rail JU concrete actions towards DAC deployment

1. Single European DAC system
2. Proven technology
3. Proven operational functionality
4. Available adequate funding
5. Simple authorization
6. Sound migration plan

Europe’s Rail JU
Innovation Pillar
Flagship Project FPS:
DAC/“Full Digital Freight Train Operations”
(technology, testing, demos, specs, principles for author.); (2022-2026)

Europe’s Rail JU
System Pillar
Driving standardization and preparing TSI Revisions for DAC technology and operations
(2022-2026)

Europe’s Rail JU concrete actions towards DAC deployment

Europe’s Rail JU
EDDP (European DAC Delivery Programme)

DAC migration roadmap

- Fleet Analyses & rtf Engineering (rtf readiness)
- Retrofit capacity plan (workshops, workforce, components)
- Funding & Financing plan
- CBA (updates)
- Investment plan & procurement framework plan
- Other regulatory & legal framework plans

Development of efficient & tailor-made authorization process & requirements

TSI revision