

CCS TSI Revision: Managing Baseline compatibility

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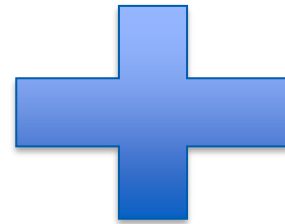
Achievements of CCS TSI Revision

- Maturity of the ETCS core specifications
- ATO GoA2
- Full level 3 principles
- FRMCS Principles and specifications for FRMCS readiness
- Train modularity
- Transition framework
- Coordinated NIPs

Generic need: Baseline compatibility

**Stable deployment
framework**

**Consistency of
the deployment**



**Predictability of
future evolutions**

**Controlled and manageable
maintenance and evolution of
specifications**

Principles of a stable baseline roadmap

Consider sector capacity for implementing changes



- Supply of products and services
- **Authorization plus conformity to type**
- Vehicle reserves
- Workshop capacities
- Service interruptions for trackside works
- Training of personnel

Beware of Transition risks

- Economical impact
- Interruption of vehicle production
- Impact on existing vehicles or tracksides in operation

A full impact
Assessment



Importance of Full Impact Assessment

- A favorable cost/benefit ratio
- Impact on new and existing projects/assets
- The availability of EU and/or national funding/compensation mechanisms
- Technology readiness level
- Supply and integration capacity of the sector

We support faster implementation

But it will happen only if the resources are available

CER positions during the CCS TSI revision

Train modularity is essential
We need to continue working
on this topic after 2022

A new Baseline (a new X version)
only when substantial added-
value is given
Need to be a sectoral agreement
between all economic actors

Improve the error
correction process:
Limit to those just
necessary operational
perimeters
Have more flexible
deadlines
Ease the authorization
process
Update the DMT ERTMS
deployment impact
assessment

Migration & Transitions
Retroactive(C3): in duly
justified case with a full
impact assessment and
funding/compensation
mechanisms considering
supply and integration
capacity

Boosting ERTMS
deployment:
Upgradeability by design
Need for strong
governance



Our main conclusions

- Baseline stability is the tool for safeguarding investments and assets
- Full impact assessment is the means to provide Baseline stability
- Upgradeability-by-design in future harmonized on-board solutions is paramount and still to be achieved
- Program Managers (e.g. IMs or MS with IMs/operators) need to restore the control over the **system roll-out** and not only the system technology

Both UNIFE and CER are committed to provide their expertise and support ERA to construct a manageable and stable Baseline roadmap for the deployment of ERTMS

For further information:

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