• The CSM ASLP future regulation (delegated act from the European Commission)

Article 9 - Information sharing system (ISS)

1. The Agency shall establish a common information sharing system designed to share information in a technological platform.

2. Any entity that is requested or entitled to share or retrieve information and data in accordance with this Regulation, before it starts sharing data and information with the ISS, shall be registered on the basis of a registration form and identification evidence, and shall be allocated to a category for application of appropriate sharing rules, in accordance with Part C of Annex IV

.../...

14. At the latest 3 years after the final version of the ISS has been made available, all safety data and information sharing tools managed by the Agency shall be integrated in the ISS”
• Reporting by operators (RU/IM) in accordance with predefined taxonomy:
  1. Occurrences (linked with TDG legislation obligations)
  2. Scenario of occurrence (sequence of events and underlying factors)
  3. Risk control measures
  4. Continuous maintenance and development of RCMs (PDCA cycle)
  5. Volume of transport operations

• Harmonised assessments of operators (RU/IM) processed by ERA
  • Safety level assessment (based on operators’ reporting)
  • Safety performance assessment (based on operators’ reporting)
  • Aggregation of national and Union level indicators

• Group of Analysts
  • Working on collective learning and solutions (including JNS workflow with a legal basis)
  • Prevention of re-occurrence
  • Support continuous improvement of safety management (at operator/national/EU levels)
  • Support continuous improvement of the CSM itself (harmonized taxonomy revisions...)

• Information Sharing System
  • Supporting sharing of information all railway actors
  • Possible link with pre-existing systems with a Common Digital Interface
CSM ASLP within 4th RP

Harmonised description of RCMs
Collection of RCM used
Reference list of Risk Control Measures (RCMs)

Assessment of operator’s maturity on RCMs
RCM performance oversight
Support to definition of performance targets

Harmonised taxonomy / scenarios description
Collection of accident and incident information
Inc. Human and Organisational Factors

Assessment of operators’ safety level
Safety level oversight
Support to definition of safety level targets

Harmonised data sharing
Single access point to safety information
Support to safety monitoring and supervision

Group of Analysts (inc. JNS)
Production of reference safety knowledge
Safety improvement and development EU actions
ISS full scope
(review of use cases on-going – 80% done)

Business Areas

- Any notifications of started/completed actions and action requests
- Reporting of Occurrences, including alerts linked to any event types
- Risk scenarios and risk control measures / Safety performance reporting
- Any type of railway safety indicators/ Safety Levels/ Safety Performance / CSIs
- GoA Analyses / GoA-JNS Procedures
- NIB Investigations
- Any recommendations from legal entities, including NIB recommendations
- ISS Online Guidance / Public ISS FAQ
- Access to reference material (e.g RCMs) and also Guides, training material...
- Data queries / Batch operations / APIs
- Entities, Systems and User accounts management / Task Forces / Agreements
- ERA KG / Safety taxonomy / Railway System taxonomy
ISS development cycle

- Several business workflows to be considered (not only core CSM ASLP requirements)

- Minimize developments necessary for each ISS implementation phase and workflow

- Maximise the benefits of the harmonized taxonomy serving several workflows

Green: in ISS description
Orange: only principle approach described
Red: When IT dev. budget allocated
• 3 documents under finalization on the ISS Business Description

EXTID-91368057-16685  (word overview document -draft)
EXTID-91368057-16684  (list of attributes - draft)
EXTID-91368057-16686  (pre-defined values - draft)
Business Area

Applicable Datasets and HMI Views

Entity role

Sharing rules

User entitlement

User viewing, filtering and selecting a record

Action of the user on the selected record
ISS sharing of information

ISS business scope and ISS registration

- Entity authorised ISS business scope (according to legal basis)
- Entity authorising user (under entity’s responsibility)
- ISS Sharing Rules (DGPR)
  - Sharing agreements btw Entities / Users (where applicable)

Authorised ISS menu

- Applicable datasets (HMI)

Authorised APIs

- Applicable datasets (MMI)

Entity’s authorised users

- (and authorised group of users)

Users’ roles

- (for authorised workflows)

Entity’s authorised connected system

Entity’s APIs

- (for authorised workflows)

Authorised access to dataset records

- (per system / per user)

Authorised actions on accessed dataset records

- (R/W/D)
  - (per system / per user)

ISS Sharing Rules

- (DGPR)
  - Sharing agreements btw Entities / Users (where applicable)
ISS HMI – Access to dataset records (sharing rules)

Records within a business area

Sharing rules applicable to the entity/user

Records accessible by the entity/user in accordance with his/her access rights
Datasets of a business area

Sharing rules applicable to the user

Additional user filtered view

ISS HMI – Filtered views (user selection)
**ISS HMI – The three dots function**  
(right hand side click on a selected record)

<table>
<thead>
<tr>
<th>Actions on dataset records</th>
<th>Permissions</th>
</tr>
</thead>
</table>
| New                        | Limited to users with WRITE entitlement (start a new record from |}
| View                       | Limited to users with VIEW entitlement |
| Edit                       | Limited to users with VIEW and WRITE entitlement |
| Archive                    | Limited to users with VIEW and WRITE and ARCHIVE entitlement |
| Share                      | Limited to users with VIEW and WRITE entitlement |
| Go to related reports      | Limited to users with VIEW entitlement |
| Export                     | Limited to users with WRITE entitlement (new void) |
ISS HMI – The three dots function (right hand side click on a selected record)

Datasets of a business area

Datasets accessible to the user

Datasets filtered by the user

Action on a dataset selected by the user

Sharing rules applicable to the user

Additional user filtered view

Menu:
- New
- View
- Edit
  - Archive
  - Share
  - Go to related reports
  - Export
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Your comments, suggestions, questions… are welcomed !!!
Moving Europe towards a sustainable and safe railway system without frontiers.

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