### Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 – 9:15</td>
<td>Welcome and Class Presentation</td>
</tr>
<tr>
<td>9:15 – 9:30</td>
<td>Training organisation and scope</td>
</tr>
<tr>
<td>9:30 – 10:15</td>
<td>SE-DMF main structure and features</td>
</tr>
<tr>
<td>10.15 – 12:30</td>
<td>Laboratories</td>
</tr>
<tr>
<td>12:30 – 13:30</td>
<td>Lunch break</td>
</tr>
<tr>
<td>13:30 – 16:00</td>
<td>Laboratories</td>
</tr>
<tr>
<td>16:00 – 16:30</td>
<td>Q&amp;A, Survey and Wrap up</td>
</tr>
</tbody>
</table>

Coffee breaks in morning and afternoon sessions
Training organisation

✓ TRAINERS (PJ22):
  ✓ Training Chair (Ramona Santarelli)
  ✓ Trainer Experts (Silvio Ronchi and Andrea Rossi)

✓ TRAINEES (PJ07)

✓ OBSERVERS (if any)
Training organisation

✓ **Training Chair** will:
  ✓ present the training slides (projector)
  ✓ Access to SE-DMF to illustrate and manage laboratories
  ✓ Internet access needed

✓ **Trainees will be grouped in teams of two people**
  ✓ (i.e. 1 SE-DMF access for two people)

✓ **1 PC per team with internet access**
  ✓ [www.se-dmf.eu](http://www.se-dmf.eu)

No software other than an internet browser is required
Exercises content (Laboratories)

✓ **Lab#1** Accessing to SE-DMF and navigating through
✓ **Lab#2** Creating a new document starting from a template
✓ **Lab#3** Working on a document (OSED/TS-IRS)
✓ **Lab#4** Creating traceability (among requirements and EATMA)
✓ **Lab#5** Reviewing a document (collaborative)
✓ **Lab#6** Exporting a Document (Deliverable)
✓ **Lab#7** Creating a Data Package
Objectives

- Use it
- Learn the main functionalities
- Get familiar
  - Understand why
  - Understand what
  - Understand how to
Background

In SESAR 1, SE Data were retrieved by mean of Exports from DEL templates
Structured way forward to organise data
from Documents to Data centric approach

Information
- SE data
- Single source of information

Aggregation of data
- Views
- Traceability

Usability of data
The System Engineering Data Management Framework

- Configuration and change management
- Data Centric approach
- Requirement Management
- Traceability
- Information structure definition, adapted to SESAR Solution lifecycle, for compliance and consistency
- Guidance
- SE-DMF platform
- Single source of information
- Standard Homogeneity
- Transparency
- Wide accessibility
- Report
- Enhancing the maturity assessment process to support Gates
- Tools, processes, methods, design, implementation, maintenance, change management, inter-level integration

SESAR 2020 PJ22 familiarisation webex
Concepts

Definition
- Rich-text documents
- Diagrams
- Project glossaries
- Templates

Visibility
- Customizable dashboards
- Analysis views
- Collections
- Status
- Baselines

Collaboration
- Review process
- Email Notification

Management
- Structure, Attributes/Types
- Traceability, Filtering, Tags
- Baselines, Change History
- Reuse (reqs & types)
- Reporting Metrics & Doc.

Lifecycle
- Central requirements, test, & development repository
- Common administration and role-based user licensing
- Reporting

Planning
- Integrated planning
- Effort estimation
- Task Management
Documents supported by SE-DMF
Integration with other SESAR 2020 collaboration tools

extranet (SDSS)
( Programme Information and Process Management)

EATMA
(the Reference Architecture)

SE-DMF
(the Engineering Data Management Framework)
Artifacts and modules

In a module, artifacts are logically and hierarchically organized.

Module

<table>
<thead>
<tr>
<th>ID</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>510</td>
<td>1 Introduction</td>
</tr>
<tr>
<td>377</td>
<td>1.1 Purpose of the Document</td>
</tr>
<tr>
<td>537</td>
<td>This document describes the specific functionality of the Automated Meter Reader system. The system is currently available with a handheld collection device. The mobile and fixed network methods of data collection are outside the scope of this system.</td>
</tr>
<tr>
<td>548</td>
<td>2 General Description</td>
</tr>
<tr>
<td>540</td>
<td>2.1 Functions and Purpose</td>
</tr>
<tr>
<td>508</td>
<td>The AMD system is used to determine water service consumption for...</td>
</tr>
</tbody>
</table>
Anatomy of an artifact

- Artifacts can be in one or more modules.
- Unique ID
- Name or summary
- The location shows where the artifact is stored.
- The format specifies the structure of the artifact content.
- The artifact type classifies the artifact and provides a consistent set of attributes and preferred link types for each specific type.
- Some attributes are generated automatically. Others can be edited.
- Artifacts can be in one or more modules.
- Links represent relationships between artifacts.

Artifact content

156: Healthy Customer Ecosystem

Due to the current economic climate it's more important than ever to both build customer loyalty and attract new customers. We can accomplish this goal with key differentiators in our business.

Location
JKE Banking (Requirements Management) Business Goals
Release 1

Attributes
Type: Business Goal
Status: Approved

Links
Satisfied By (1): 68
In Modules (3):
- Requirements Specification (3): 368, 374, 372

Tags

Artifact Format: Text
The workspace area structure
Traceability and relationships

Link constraints allow only predefined relationships
Sharing information in hard or soft copies with Stakeholders
Review, compliance and security

Recording who did what

... and when

Controlling who can see and change information
Revision process

The Project Manager is an admin of the Project workspace area
- Allocates resources with proper role to Project
- Creates teams per Solution
References

For an overview of PJ22 and SE-DMF, go to:
www.se-dmf.eu/

For info, requests and support on the tool and use, mail to:
info@se-dmf.eu
support@se-dmf.eu
Let’s start!

https://dng.se-dmf.eu/rm
Thank you very much for your attention!

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The opinions expressed herein reflect the author’s view only. Under no circumstances shall the SESAR Joint Undertaking be responsible for any use that may be made of the information contained herein.
The System Engineering Data Management Framework

Requirement Management

Guidance

Standard Homogeneity Transparency

Gates

Information structure

Configuration and change management

Report

Tools, processes, methods, design, implementation, maintenance, change management, inter-level integration

traceability