

Terms of Reference (ToR) for ETSI ISG 'European Common information sharing environment service and Data Model', (ISG CDM)

Approved by the Director-General on **27 April 2021** following ETSI Board consultation

Scope

The main objective of ISG CDM is to develop a consistent set of technical specifications to allow data exchange among different legacy systems in a cooperative network.

The work of the ISG CDM, through the standardization of CISE Data Model and in particular through Common and Core Services, enables User Communities, Member States, Public Authorities or EU Agencies to facilitate information exchange between all parties, and also to promote the European Maritime Security Strategy¹.

The group will enhance the maritime CISE Model by the extension to Land Surveillance Domain too.

The goal of ISG CDM is to provide a universal data and service model that may serve as reference for all cross- sectoral and cross- border information exchange between European public authorities.

Areas of activity

Independently of the message exchange pattern used or the business operation, the final goal of the services is to allow the exchange of information.

The supported information model and their relationships are detailed in the CISE Data Model². The activities of ISG CDM include the following broad areas:

- Network and Secure Communication (communication between Adaptors, Gateway and Nodes – Core Services);
- Application Security (identification, authentication and authorization of the users across the network, managing access to secured resources maintained at a service provider – Core Services);
- Auditing (to perform analysis on events through logging, monitoring and accounting services – Core Services);
- Collaborative tools (multimedia and auxiliary tools provided to facilitate the communications and work among the users – Core Services);
- Data Model versioning;
- Service Provider component;
- Consumer component;
- Testing and validation.

ISG CDM seeks to develop the standard(s) to allow data exchange among different Legacy Systems in a cooperative Network. The work of ISG CDM will be done in a phased manner. Exploiting the maturity of the standards being published, ISG CDM will be in charge of implementing a comprehensive Testing Platform aimed at validating the candidate implementations coming from all parties as well as improving the quality of the standards.

¹ EU JOIN 2014/09

² CISE DATA Model Version 1.5.3 – Body EC/JRC

The work will consist in the following activities:

- Finalization of Version 1 set of specifications, based on EUCISE2020 Project.
- Development of Version 2 set of specifications:
 - Update of Group Report on Use Cases (CDM 001);
 - Update of Group Specification on System Requirements (CDM 002);
 - Update of Group Specification on CISE architecture (CDM 003);
 - Update of Group Specification on CISE protocol (CDM 004);
 - Update of Group Specification on CISE Data Model (CDM 005).
- Development of Group Specifications on Test Requirements, Purposes, and Test Suite implementation.

The detailed ISG CDM work plan may be modified as the work and project priorities evolve and will be maintained and made available on the ETSI portal.

Throughout the project, the ISG CDM will provide recommendations to the existing standards groups when impacts on their specifications are foreseen.

To maintain a clear focus, the ISG CDM will finally make a review of its work and a proposal to the ETSI DG on how to evolve the ISG CDM's future activities, including the possibility to:

- Conclude the ISG CDM;
- Continue the ISG CDM for an additional period with (potentially revised) Terms of Reference;
- Transfer work and activity to an existing (or new) ETSI Technical Body or eventually another standards group.

Annex (informative): collaboration with other bodies

The ISG CDM initially intends to establish relationship with the following:

ETSI groups

- TC SmartM2M;
- ISG CIM (cross-cutting Context Information Management);
- ISG PDL (Permissioned Distributed Ledger);

and others as identified during the progression of the work.

External groups

- EU Commission (DG Mare, DG Home, DG Digit, JRC);
- CISE Transition Phase Project;
- EMSA (European Maritime Safety Agency);
- EU Satellite Center;
- FRONTEX (EU Border and Coastguard Agency);
- Maritime Surveillance Networking MARSUR;
- OCEAN2020 cooperation project;
- MARISA Project (Horizon2020 research and innovation programme);
- Andromeda Project (Horizon2020 research and innovation programme);
- EFFECTOR (Horizon2020 research and innovation programme);
- PROMENADE (Horizon2020 research and innovation programme);
- NESTOR (Horizon2020 research and innovation programme);
- CEF (Connecting Europe Facility);
- INSPIRE;

and others as identified during the progression of the work.

