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

Approved by the Director-General on **8 April 2019**, 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, European Common Information Sharing Environment (CISE).
The work of the ISG CDM, through the standardization of EUCISE 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 Strategy[1].

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 EUCISE Data Model[2].

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);
- Service Provider component
- Consumer component

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.

Phase 1 (informative): will consist of highlighting the CISE components (based on the EUCISE2020 concept[3][4] and their capabilities as well as the possibility for each Member State and community to adopt a single or multiple-way approach paradigm.

The initial work will consist of:

- Organizing a Kick-off-Meeting and initial discussions on the standardization model, and plan of work for the ISG and future meetings;
- Identifying a reference architecture to be used for the development of EUCISE Data Model and Core and Common Services

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[1] EU JOIN 2014/09
[2] EUCISE2020, M16081.02.1072TR „Interface Control Document for National Adaptors"
[3] COM (2009) 538 final
[4] CISE Architecture Visions Document V3.0, 06/11/2013

- Providing communications documentation to explain the purpose of the project to external communities in the form of whitepapers, articles, or others.

Phase 2 (normative): will consist of finalizing the specifications work.

The initial plan involves delivering the following results:

- (T0+03) Group Report describing the overall architecture;
- (T0+05) Group Specification for Common and Core Services (preliminary);
- (T0+06) Group Specification of languages, processes and domains for service modelling;
- (T0+07) Group Specification: First set of Service models;
- (T0+09) Group Specification: Second set of Service models;
- (T0+12) Group Specification: Third set of Service models;
- (T0+18) Review of suitability of the Group Specifications and data models based on evidence gathered from EUCISE2020 software implementations
- (T0+22) If needed: Create and publish Version 2 of the Group Specifications based on the previous review.
- (T0+22) ISG CDM review of work and (if needed) proposal to ETSI for next period.

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 at the end of the second year 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:

- terminate 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

ISG CDM will set-up the appropriate communication channels to the following groups both within and outside of ETSI.

ETSI groups

- None identified to date but will be added as necessary during the progression of the work.

External groups

- EU Commission (DG Mare, DG Home, DG Digit, JRC)
- CISE Transition Project
- EMSA (European Maritime Safety Agency)
- EU Satellite Center
- FRONTEX (EU Boarder and Coastguard Agency)
- Maritime Surveillance Networking MARSUR
- OCEAN2020 Cooperation Project

and others as identified during the progression of the work.

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