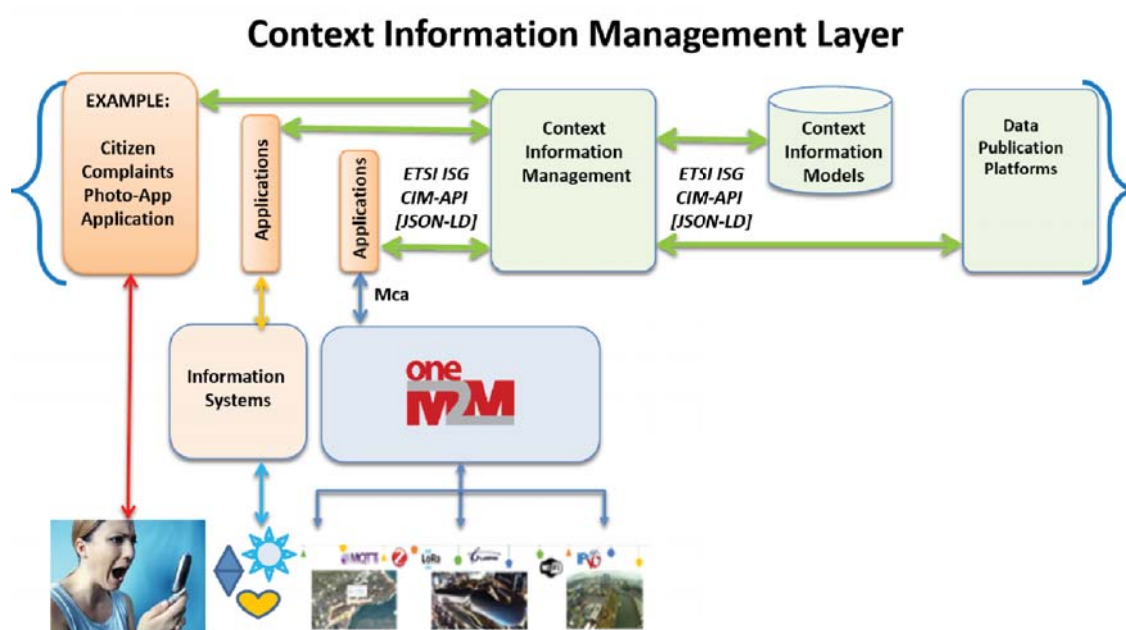# What is the goal of the CIM ISG?

The goal of the ETSI Industry Specification Group on Context Information Management is to issue technical specifications to enable multiple organisations to develop interoperable software implementations of a cross-cutting Context Information Management (CIM) Layer. It is about bridging the gap between abstract standards and concrete implementations.

The CIM Layer should enable applications to discover, access, update and manage context information from many different sources, as well as publish it through interoperable data publication platforms.

The work of ISG CIM will be done in a phased manner. The initial phase will be purely informative and result in an ISG CIM Group Report (GR). It will be followed by a second normative phase resulting in several ISG CIM Group Specifications (GS). In order to avoid duplication of work, close collaborations will be sought with a number of organizations and initiatives such as with ETSI TC SmartM2M and oneM2M.

Context Information Management Layer

The above figure is informative only, to highlight how the Context Information Management Layer may interact between applications and various information sources, one of them being the oneM2M service layer. The CIM Layer is based on information models and interfaces with data publication platforms or indeed with applications linked directly to users (example of Citizen Complaints Photo-App).

ETSI ISG CIM standardization plan

The Phase 1 ISG CIM Group Report will detect and describe the standardization gaps in order to consider any missing features and to ensure interoperable software implementations, including open source implementations. Developing ISG CIM Group Specifications in Phase 2 will subsequently fill these gaps. It is expected that an extension of the RESTful binding of the OMA NGSI API involving expression using JSON-LD could aid interoperability, so this and potentially other extensions will be considered.

ETSI ISG CIM standardization plan (continued)

The initial plan foresees the following results in months 1, 2, 3 etc. (T0 = 9 February 2017):

- (T0+01) Liaisons to major organisations informing of the work and requesting comment/input. Invite participation/membership.
- (T0+03) Group Report describing the overall architecture and identifying standardization gaps
- (T0+03) Joint f2f-workshop (with webinar attendance possible) with ETSI SmartM2M and possibly other organisations.
- (T0+05) Group Specification for a Context Information Management API (preliminary) together with a preliminary example data model (e.g. tourism)
- (T0+05) Group Specification for Data Publication platforms to support CIM-API required metadata.
- (T0+05) Group Specification of languages, processes and domains for data modelling
- (T0+07) Group Specification: First set of data models (e.g. mobility, participation, tourism)
- (T0+09) Group Specification for a Context Information Management API (v1.0)
- (T0+09) Group Specification: Second set of data models
- (T0+12) Group Specification: Third set of data models
- (T0+12) ISG CIM Review of Work and proposal to ETSI for next period

To gain an initial impression of the planned work, please visit the public pages https://portal.etsi.org/CIM where you will find a CIM FAQ and the current CIM Work Programme showing the scope of six work items.

Join the ETSI ISG CIM

Members and non-members of ETSI are invited to join the ISG CIM. Application forms and instructions are available at https://portal.etsi.org/CIM. A list of current members is also available at this location. For more information please contact: ISGSupport@etsi.org

Questions?

For any questions about ISG CIM, please do not hesitate to contact:

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