

Context Information Management

Help form a ETSI Industry Specification Group
(Urgent need. Planned activities.)

Outreach Document: Version 20170104
Contact Lindsay.Frost@neclab.eu for further information.

Main Points

1/2

- **Urgent need** for specifications in Context Information Mgt.
 - BigData, OpenData, IoT ... Lots of opportunities, but remember GIGO
 - Label the data, match up "publisher" & "consumer", check reliability ...
- **Practical Use Cases exist**
 - Use cases in SmartCity transport, Citizen involvement, SmartAgriculture...
- **Need survey of existing scattered SDO work, then check gaps**
 - AIOTI overview, ITU-T overview, ...
 - oneM2M current work; ETSI SmartM2M current work; ...
 - W3C WoT, etc

- **Now seeking Stakeholders to start a CIM Specification Group**

- Initially:



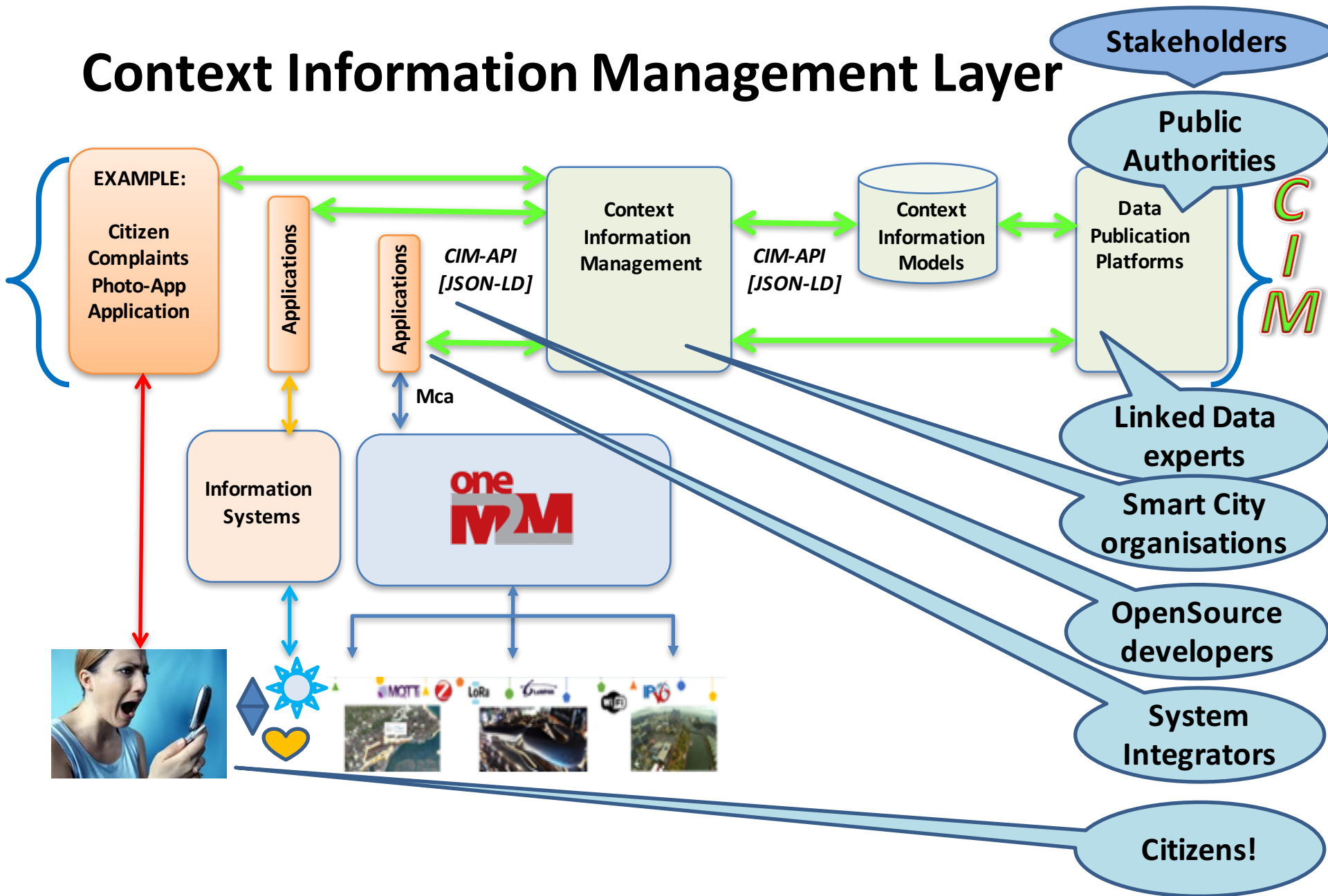
- Supporters:



- Trying first for an ETSI ISG: non-ETSI members welcome!

- **Outreach: OpenData & Smart Cities**
 - CIM is a collaborative activity!
 - We need your experience/requirements/feedback ...
- **Main Deliverables for Context Information Mgt specifications:**
 - Survey of existing SDO work / specifications
 - Use Cases
 - Gap Analysis
 - API Specification
 - Example Data Models
- **Making the API Gap Analysis**
 - Checking with SDOs for their status → starts asap
 - Understanding the Requirements based on Use Cases / Examples
 - e.g. FIWARE NGSI API is already widely used and has many advantages ... but what is still missing?

Context Information Management Layer



Initial Planning (T0=February 2017)

<i>Note:</i>	<i>ETSI Approval process for ISG started, but not yet complete on 09.01.2017</i>
(T0)	First General Meeting (vote on Chairs, WG deliverables, schedule, etc)
(T0+01)	Liaisons to major organisations informing of the work and requesting comment/input. Invite participation/membership.
(T0+03)	Group Report describing overall architecture and standardization gaps
(T0+03)	Joint f2f-workshop (with webinar attendance possible) with ETSI SmartM2M, oneM2M and possibly other organisations.
(T0+05)	Group Specification: (preliminary) Context Information Management API together with a preliminary example data model (e.g. tourism)
(T0+05)	Group Specification: Data Publication Metadata supporting CIM-API
(T0+05)	Group Specification of languages/processes/domains for data modelling
(T0+07)	Group Specification: First set of data models (e.g. mobility, 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

Surveying CIM Standards (a few of >200 links)

- [AIOTI: Alliance for Internet of Things Innovation](#)
- [DCAT application profile for data portals in Europe](#)
- [European Data Portal](#)
- [ITU SG-20](#)
- [oneM2M](#)
- SAREF reference (and [ETSI STF 513](#))
- [W3C Web of Things Interest Group](#)

Organisations to contact re CIM or "Smart City"

- [Centre for Liveable Cities \(CLC\)](#)
- [City Protocol](#)
- [Connected Smart Cities Network](#)
- [eG4U](#)
- [ESPRESSO](#)
- [EuroCities](#)
- [GSMA IoTBD](#)
- [NIST IES-SmartCity](#)
- [Open City Platform](#)
- [World Council on City Data](#)
- ...

THANK YOU ...

And please join the effort to converge Context Information Management.
Contact Lindsay.Frost@neclab.eu for further information.