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

• **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!

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Main Points

• **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 \( \rightarrow \) 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?

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Context Information Management Layer

EXAMPLE:
Citizen Complaints Photo-App Application

Applications

CIM-API [JSON-LD]

Context Information Management

Context Information Models

Data Publication Platforms

Stakeholders

Public Authorities

Linked Data experts

Smart City organisations

OpenSource developers

System Integrators

Citizens!

Information Systems

Mca

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## Initial Planning (T0=February 2017)

### Note:
*ETSI Approval process for ISG started, but not yet complete on 09.01.2017*

<table>
<thead>
<tr>
<th>(T0)</th>
<th><strong>First General Meeting</strong> (vote on Chairs, WG deliverables, schedule, etc)</th>
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</thead>
<tbody>
<tr>
<td>(T0+01)</td>
<td><strong>Liaisons</strong> to major organisations informing of the work and requesting comment/input. Invite participation/membership.</td>
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<tr>
<td>(T0+03)</td>
<td>Group Report describing <strong>overall architecture and standardization gaps</strong></td>
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<tr>
<td>(T0+03)</td>
<td><strong>Joint f2f-workshop</strong> (with webinar attendance possible) with ETSI SmartM2M, oneM2M and possibly other organisations.</td>
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<tr>
<td>(T0+05)</td>
<td>Group Specification: (preliminary) <strong>Context Information Management API</strong> together with a preliminary example data model (e.g. tourism)</td>
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<tr>
<td>(T0+05)</td>
<td>Group Specification: <strong>Data Publication Metadata</strong> supporting CIM-API</td>
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<td>(T0+05)</td>
<td>Group Specification of languages/processes/domains for data modelling</td>
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<tr>
<td>(T0+07)</td>
<td>Group Specification: <strong>First set of data models</strong> (e.g. mobility, tourism)</td>
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<tr>
<td>(T0+09)</td>
<td>Group Specification for a Context Information Management API (v1.0)</td>
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<td>(T0+09)</td>
<td>Group Specification: Second set of data models</td>
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<tr>
<td>(T0+12)</td>
<td>Group Specification: Third set of data models</td>
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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 IoTBDENIST IES-SmartCity
- Open City Platform
- World Council on City Data
- ...

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THANK YOU ...

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