

Open APIs
for Open
Minds

Open session Smart Data Models 24-05-2021

Alberto Abella

Data modelling expert

FIWARE Foundation

alberto.abella@fiware.org



Agenda 2021-5-24

Every slot accounts for 5 minutes

Slot 1: Updates of the week (new services and new/updated data models).

Slot 2: Regulations / standards to be mapped to smart data models. Pending action points

Slot 3: Risk Assessment Data Model and next Steps

Slot 4: Data model validation tool.

Slot 5: Free slot (write your name here) You can present or make questions. Include your slides (maximum 2) after this slide.

Slot 6: Free slot (write your name here) You can present or make questions. Include your slides (maximum 2) after this slide.

Slot 1: Updates of the week

New data models:

1. [DLTxReceipt](#). Description of a DLT receipt storing some of the attributes (keys) of a transaction.
2. [Camera](#). A Data Model for camera installations in a city. (to be approved)
3. [VaccinationCertificate](#). Description of a COVID-19 Vaccination Certificate with DLT certification. (to be approved)

Updated data models:

4. [Device](#). An apparatus (hardware + software + firmware) intended to accomplish a particular task (sensing the environment, actuating, etc.).

Slot 2. Regulations. Pending action points

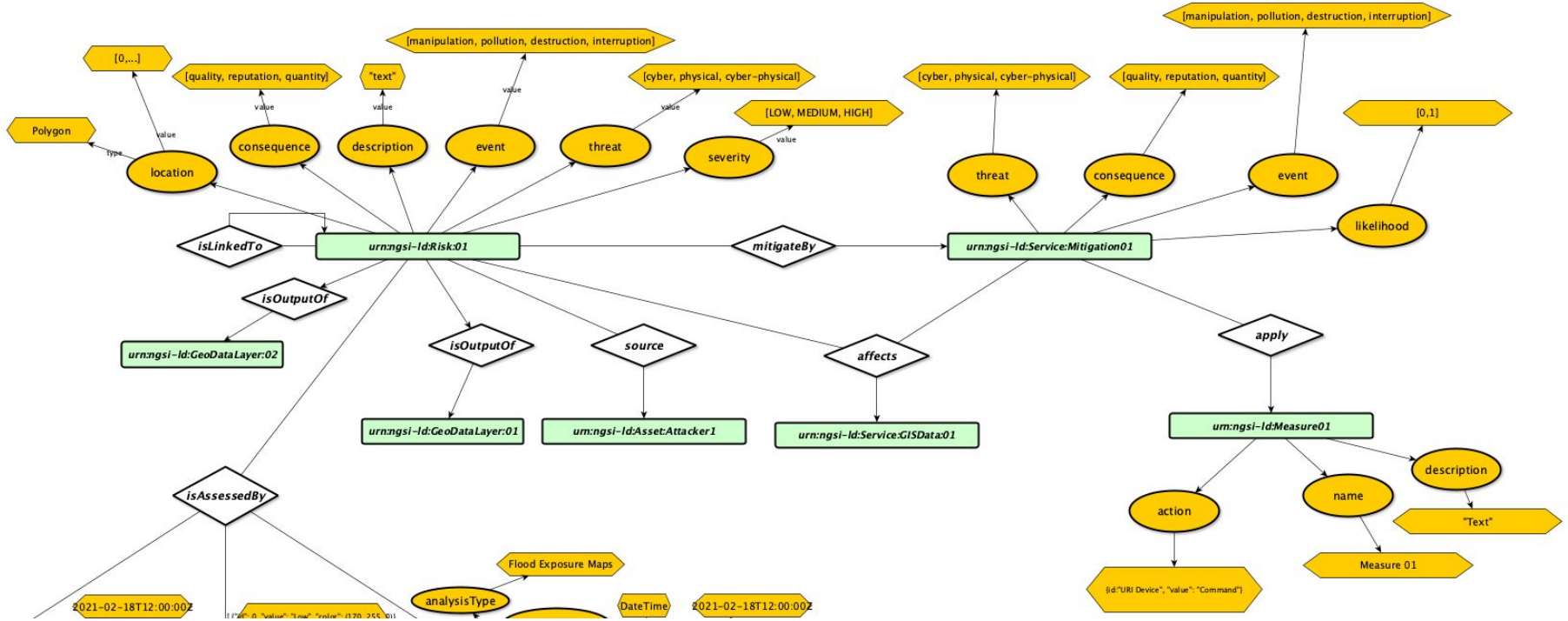
Regulations to be adopted:

- DCAT-AP (1-2 weeks)
- ROS
- Assess some models coming from health OHDSI
- OpenStreetMap (July)

Pending points.

- Fixed specifications for not downloading but to link to the specifications. Done
- Additionally included a language sentence for specifications.

Slot 3- Risk Assessment Data Model and Next Steps



Slot 3- Risk Assessment Data Model and Next Steps

- Development of connection of Risk structure with Earth Observations and Multi-layered visualization.
- Incorporation of descriptions related to the resource of the risk and potential cascading effects between risks.
- Current version of the model available at:
<https://github.com/smart-data-models/incubated/tree/master/RiskAssessment>
- **Next Steps of the AG:** Modelling of Alerts and Events

Slot 4 - Data Model Validation Tool

We are using the following tool <https://www.jsonschemavalidator.net/> and we have some errors in validation when we use the following examples from <smart-data-models/dataModel.WaterQuality>:

- keyvaluesNGSI-LD: [example](#)
- normalized NGSI-LD: [example](#)

For the validation we are using the following schema: [schema.json](#)

Do you have any suggestions? What are we doing wrong?

Thanks

Free slot 5

Free slot 6

Action points

Study automation of examples conversion

Review of key values examples