Meeting #04

Machine Readable Information Delivery Specifications

AKA "Information Delivery Specification (IDS)"



Agenda bSi IDS meeting #04

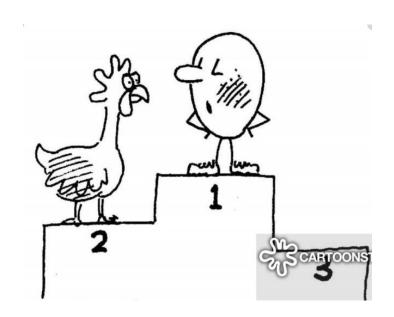
- 1. Short update
- 2. Meeting groundrules
- 3. Recap last meetings
 - 1. Present principles from version 0.01: Cyrille
 - 2. Present ideas around version 0.01: Arie, André and Thomas
- 4. Workshop towards version 0.1 reactions on ideas
- 5. Next session #05



1. Short update

- Several new group members...again...
- Version 0.01 Arie, André and Thomas
- ...still some discussion

 Goal: get use-cases implemented into software Revit & Solibri (minimal)



2. Meeting Ground Rules

- Use-case pull instead vs solution push
- Only people that speak have their camera + mic ON
- All other people that DOT NOT speak have their camera + mic OFF
- People can speak for a max of 2 minutes
- Respect each others use-cases, perspective and vision

• ...



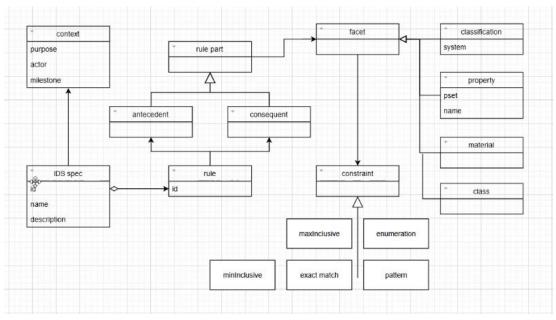
3. Agreed for version 0.01 (Arie, André, Thomas)

- 1. End user should be able to specify ObjectTypes ('things') in her/his own language -> mapping on IfcEntity if possible, if not possible then map on IfcBuildingElementProxy.
- End user should be able to specify 'properties' in her/his own language vising user defined PropertySets (not part of the IFC standard),
 optionally being able to map them to the correct Pset_Common (predefined).
 - Example: ObjectTypeProperties should be 1 propertyset (Solibri: visible in 1 tab)
- 3. UID required, UUID optional for both object Type and PropertySet.
- 4. Optional: add link to classification system according to 'National Norm'.
- 5. Limit DataTypes of Properties to one of: Enumerations (String/Integer/Real) or String/Boolean/Integer/Real.

3. Disagreed for version 0.01 (Arie, André, Thomas)

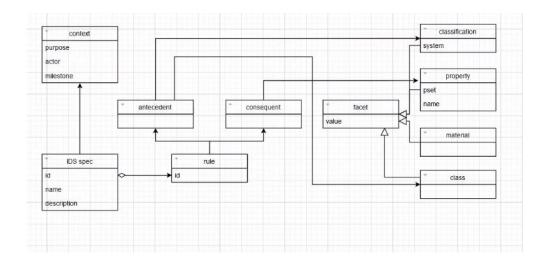
- 1. How to handle multiple people having to enter properties into 1 ObjectType. For example: Column: CON specifies steel grade, ARCH specifies color.
- 2. Practical way to define units.

3. Thomas



Remarks:

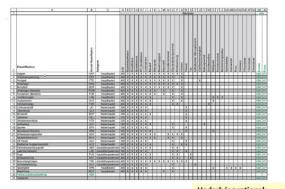
Properties vs alpha numerical data Constrain of values? Complexity needed? Or worth the effort?



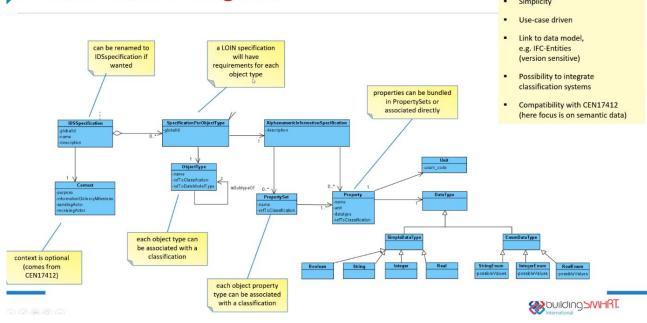
Remarks:

Simpler version to implement. How many releases of IDS do we want? Complete enough version 0.1

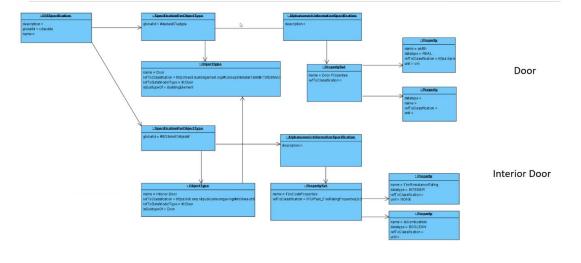
3. André



UML Class diagram



UML Instance diagram



Remarks:

Units in UCUM-code (unambigiously)

Remarks:

Use reference to Classification IFC as data model is fine, but lacks fine-grained

3. Arie

Properties (of element type

Properties (of elements)

Remarks:

Propertysets (just a set of properties)

```
<pset ID='PanelRadiatorTypePsetID'>
         <name>Panel radiator type properties</name>
         prop ref='HeatEmissionID'/>
          cprop ref='WaterContentID'/>
         prop ref='PanelTypeID'/>
</pset>
<pset ID='PanelRadiatorPsetID'>
         <name>Panel radiator properties</name>
         cprop ref='| Class (type/element part with IFC mapping)
         prop ref=':
                                     <pset ref='PanelRadiatorTypePsetID'/>
                                     <map2>
</pset>
                                             Class (Panel radiator)
                                         <if
                                     </map2></e <class ID='PanelRadiatorID':</pre>
                                 <elem>
                                                  <name>Panel radiator</name>
                                     <pset ref=</pre>
                                                  <desc>Body made of steel filled with water to heat a space<desc>
                                     <map2>
                                                      <pset ref='PanelRadiatorTypePsetID'/>
                                         <if
                                                 </etyp>
                                         <if
                                                 <elem>
                                     </map2></e
                                                      <pset ref='PanelRadiatorPsetID'/>
          Remarks:
                                                  <ifc2>IFCSPACEHEATERTYPE/PANELRADIATOR</ifc2>
                                                 <ifc4>IFCSPACEHEATERTYPE/RADIATOR</ifc4>
                                                  <ifc5>IFCELEMENTTYPE/PanelRadiator</ifc5>
                                             </class>
```

4. Workshop – reactions towards ideas



Decisions

- XML
- Wording standard LOIN

5. Next meeting #05:

- Get all software vendors (implementors) involved
- Continue the discussion in the Chat Channel of the MS Teams

- Options:
- A) implement version 0.01
- B) Go from version 0.01 -> to version 0.02