

Meeting #06

Machine Readable Information Delivery Specifications

AKA “Information Delivery Specification (IDS)”

Agenda bSi IDS meeting #06

1. Short update
2. Use-case analysis
3. XML schema Autodesk (Peter) – 30min
4. Feedback André & Mathias
5. Data-structure – continued discussion
6. Next session #07

1. Short Update

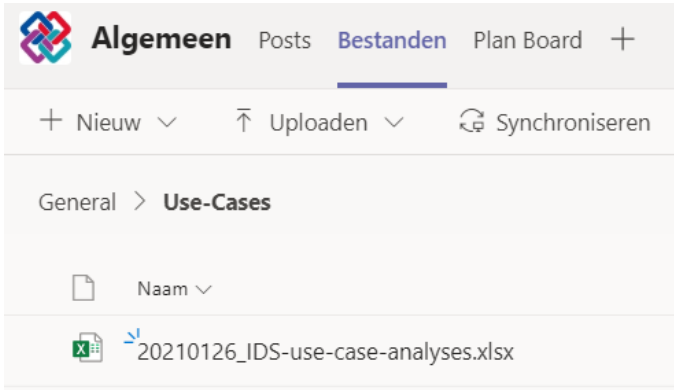
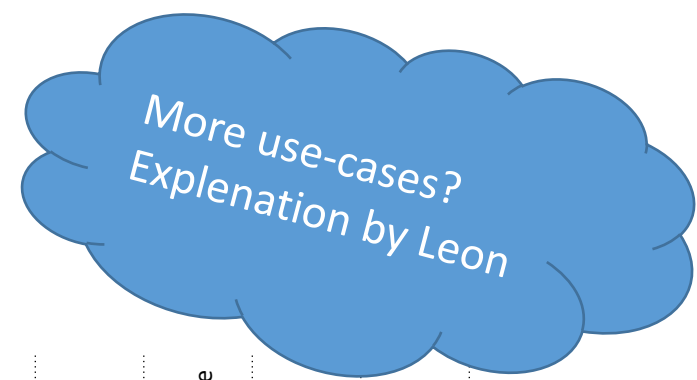
From last session #05:

- Q1: Perhaps using the XML structure from the Autodesk tool as input for the v0.01?
- Q2: How similar is the BSDD UML to the v0.01 UML?
- Q3: 'User focused' or 'IFC-focused' approach? Or both, with IfcEntity mapping should be mandatory.
- Proposal: Use-case requirements REPORT -> analysis from use-cases to give direction to technical solution

1. 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
- ...

2.Use-case analysis



Use-cases:

bSDD
Estonia
ILS Ontwerp en Engineering
ILS Woningbouwcorporaties
Chili National standard
Swiss Rail

Types of requirements:

Self defined/named objects	IFC entities	Mapping between self defined and IFC	Predefined Types (probably very rare, not really allowed in IFC)	Object Type (attribute)	ClassificationReference (often called 'classification')	Psets / PropertySet names	Qsets / Qset names	User defined Properties (including quantities)	Material	Allowed values (for all of the previous)	Dependencies (for example: if classification is x, than these properties, else those properties)	Other	Comments
bSDD													
Estonia			?										
ILS Ontwerp en Engineering		n.a.											
ILS Woningbouwcorporaties													
Chili National standard		n.a.											
Swiss Rail		n.a.											

3.XML schema Autodesk

Documentation and explanation by Peter Muigg.

IDS = “A List of components, that share properties”

- Mandatory fields: Name + IfcName (Entity) + Description
- Measures : Length/Mass/... physical quantity
- How does it
- Specify Information Requirement (INPUT) on a physical component basis.
- ‘Implicit’ property or classification references.
- Specification vs Validation.

```

1 <?xml version="1.0" standalone="yes"?>
2 <!DOCTYPE xsd:schema xmlns:xsd="http://tempuri.org/XMLSchema.xsd" >
3 <xsd:element base="xsd:string" name="FreeBIM_Guid" type="xsd:string"/>
4 <xsd:element base="xsd:string" name="BIM_Guid" type="xsd:string"/>
5 <xsd:element base="xsd:string" name="Name_Int" type="xsd:string"/>
6 <xsd:element base="xsd:string" name="Name_Loc" type="xsd:string"/>
7 <xsd:element base="xsd:string" name="Description_Int" type="xsd:string"/>
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10 <xsd:element base="xsd:string" name="IfcName" type="xsd:string"/>
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32 <xsd:element base="xsd:string" name="IfcName_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext" type="xsd:string"/>
33 <xsd:element base="xsd:string" name="IfcName_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext_Ext" type="xsd:string"/>
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1																										
175	Neigung Stütze																									
176	Neigung Tiefgründung																									
177	Neigung Träger																									
178	Neigung Wand																									
179	Nettfläche Decke																									
180	Nettoansichtsfläche																									
181	Nettfläche Dach																									

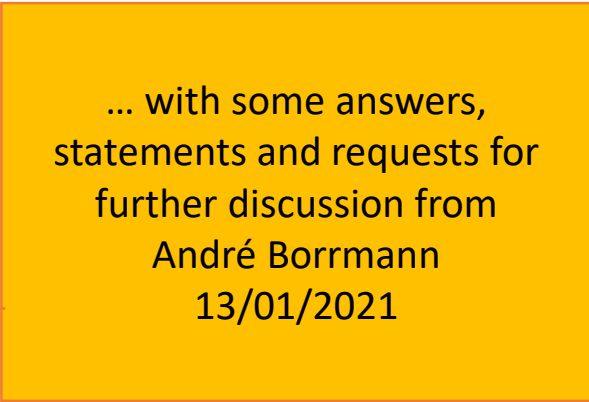
4.Feedback André & Matthias

bSi IDS Meeting #04

Technical Discussion

16 December 2020

Matthias Weise, AEC3 Germany



... with some answers,
statements and requests for
further discussion from
André Borrmann
13/01/2021

5. Next session #07

- Further analysis of use-cases using Excel Matrix
- Back to beginning: project scope

