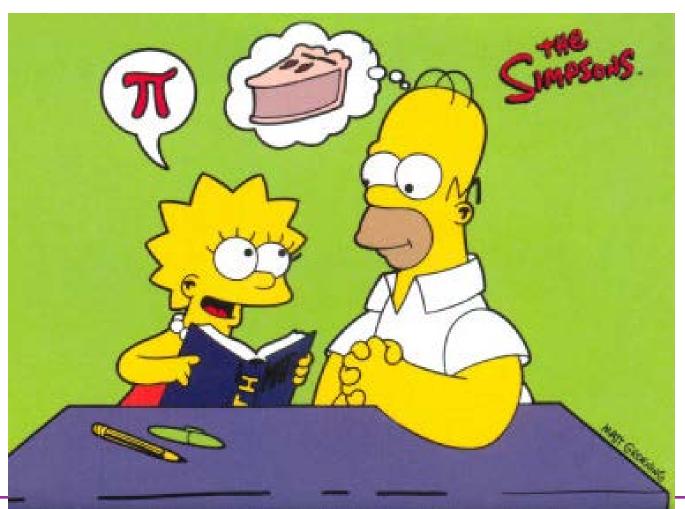
BuildingSMART Data Dictionary (IFD Library, Barbi/Lexicon)

By David Watson, CET, FCSC, CSP 2014-06

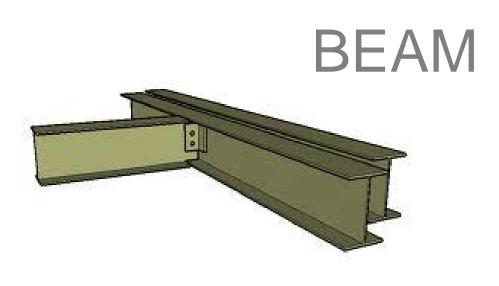


CAD-Specs The fundamental Problem





CAD-SPECS THE FUNDAMENTAL PROBLEM









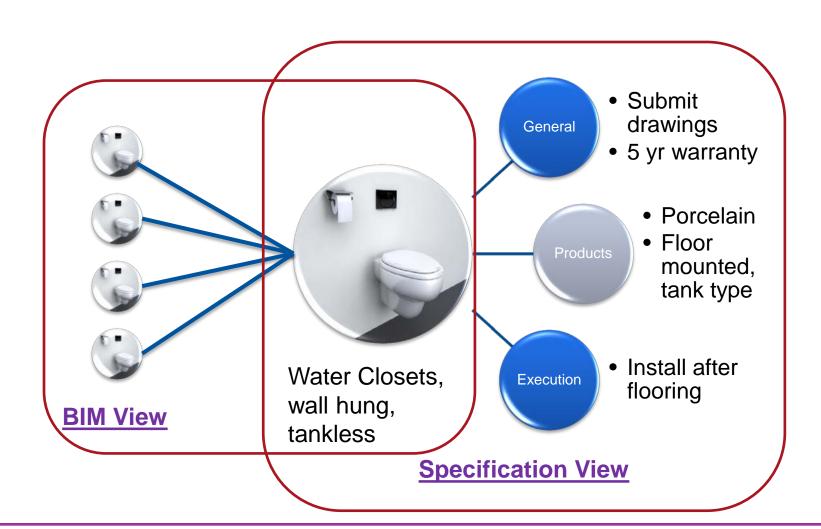
than







objective





bSDD – How does it work?



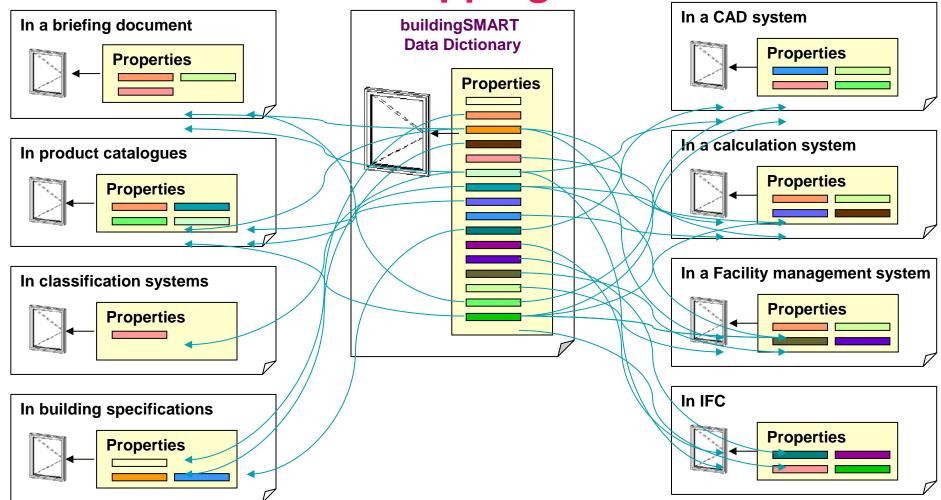
- CAD (BIM) Model
 - bSDD GUID = xyz
 - Name = "ceiling panel"
 - Length =
 - Width =
 - Thickness =
 - Geometric position (x, y, z)
 - Quantity



- Data Source (eg. master specification)
 - bSDD GUID = xyz
 - Name = "acoustic panel"
 - STC Rating =
 - Flame spread resistance =
 - Install into suspended t-bar
 - Submit shop drawing



bSDD / IFD mapping mechanism

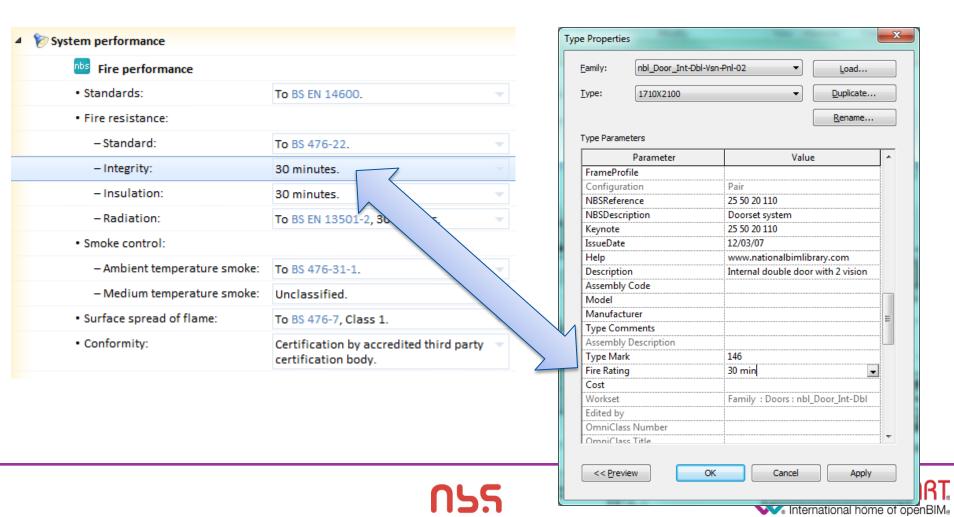


How it Works

Fire resistance integrity

?? = ??

Fire rating



How it works

310 Infill panel

- Form;[...]
- Edge profile: [...]
- Size (width x length): [...]
- Thickness: [...]
- Face finish: [...]
- Face colour: [...]
- Face pattern: [...]
- Sound absorption coefficient: [...]
- Light reflectance value: [...]
- Thermal conductivity: [...]
- Recycled content: [...]
- Weight: [...]

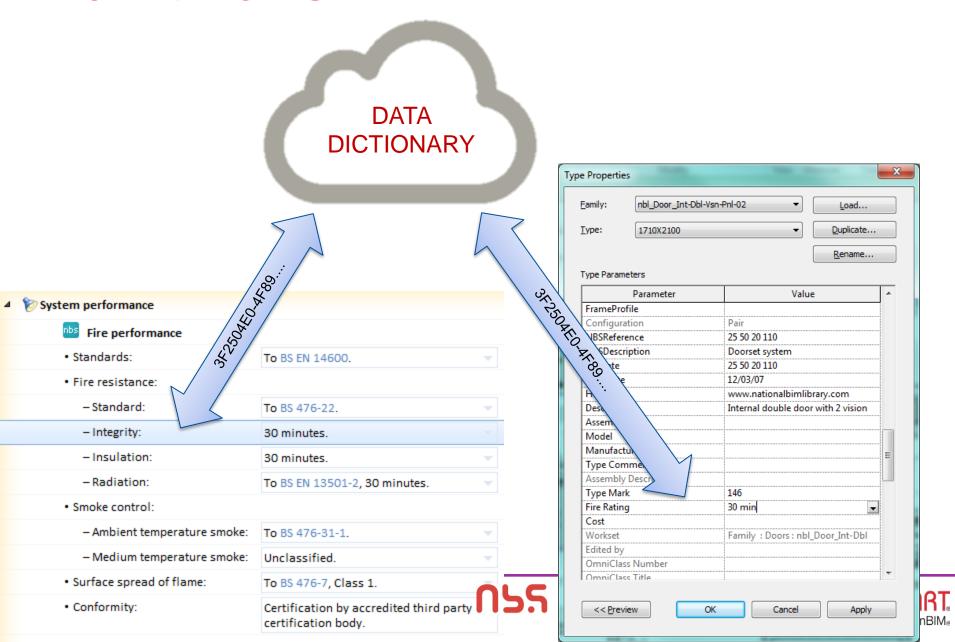
310 Infill panel

- Plateformat:[...]
- Kantutforming: [...]
- Platestørrelse: [...]
- Tykkelse: [...]
- Overflatebeskaffenhet: [...]
- Farge: [...]
- Overflatemønster: [...]
- Lydabsorpsjonsfaktor: [...]
- Refleksjonsfaktor: [...]
- Varmemotstand: [...]
- Resirkulertinnhold: [...]
- Nettovekt: [...]





How it works



BSDD – What else does it do?

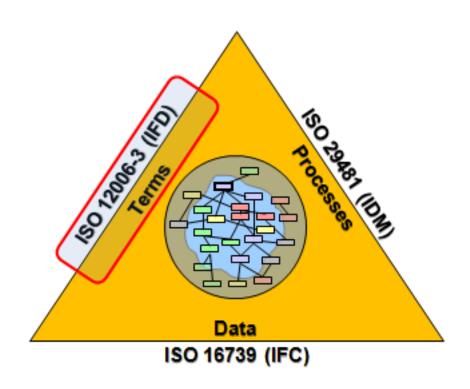
- Accessible via software/internet (cloud)
- Manages synonyms, multiple languages
- Classifies
 - Any classification, as long as it resides in bSDD
- Gets specialization hierarchy
 - Super-types, sub-types
- Get lists of components
- Get lists of properties
- Get lists of relevant standards
- Select from many 'contexts'
 - (a context is a set of relations)



BSDD - Applications

- No. 1: Access BIM Data Stores
 - Spec database
 - Product information
 - Costing
 - ...
- Translate
- Classify

The Buildingsmart model



The BuildingSMART Model

- IFC:
 - The 'transport' medium through which data is transmitted
- IFD:
 - The 'meaning' of the data being transmitted
- IDM:
 - The 'process' (which part is being sent, what is it, who sent it to whom, and when)



bSDD - Status

- API operational
- Pilot Projects:
 - Approximately 15 participants (at least 10 countries)
 - N.A./Europe: Weekly
 - N.A./Australasia: Weekly
 - Subjects: Ceiling tile, VAV Terminal box
 - Developing content management guidelines

BSDD Status

- Customers:
 - CB/NL: Dutch, available to all Dutch users
 - Cobuilder: NO company, storing product data
 - IFD Sign-on (NOBB, ???)
- Serious Interest
 - Saint Gobain
 - NBS/RIBA and bsUK (UK)
 - AIMCC (France)
 - University of Austria



Check it out!

http://bsdd.buildingsmart.org