

Systems to Collaborate

The ideas behind bimsync, Peregrine and
KnowledgeSearch

Workhop in Copenhagen 2014.11.12

www.duraark.eu www.catenda.no



DURAARK
DURABLE
ARCHITECTURAL
KNOWLEDGE



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CATENDA

Catenda

- Started in 2009 as a spin-off from SINTEF Building and Infrastructure
- Experienced in research on and implementation of buildingSMART technologies.
- Vision = “Knowledge in optimal collaboration”.
- Our products is based on open standards (which we have helped develop).
- Has international expertise on all buildingSMART standards and is the only organisation with representatives in all technical decision groups in buildingSMART.

Catenda /2

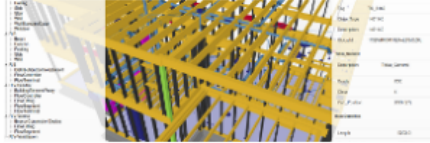
- 9 employees, offices in Oslo and Bergen.
- Business concept: implementation, quality assurance and analysis of BIM (Building Information models) and other buildingSMART technologies.
- Does strategic development for a number of entities in the construction and property industry.

The standards

- **IFC**: “the file format”
- **bsDD** (IFD): the terms
- **IDM**: The process. Who delivers what information to whom, when and in which way.
- **BCF** (building collaboration format): Application independent handling of issues (fancy, but important, todo-list).
- **E57**: laserscans

Created by Catenda

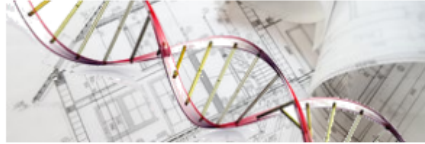
BIMSYNC



With bimsync you can get your BIM project online in no time and be sure that everyone is on the same page. Share, collaborate, analyze and enrich your BIM models.

[Read more](#)

BUILDINGSMART DATA DICTIONARY



We deliver the infrastructure to buildingSMART Data Dictionary. If you plan to do anything related to bsDD and need advice then we are happy to help you.

[Read more](#)

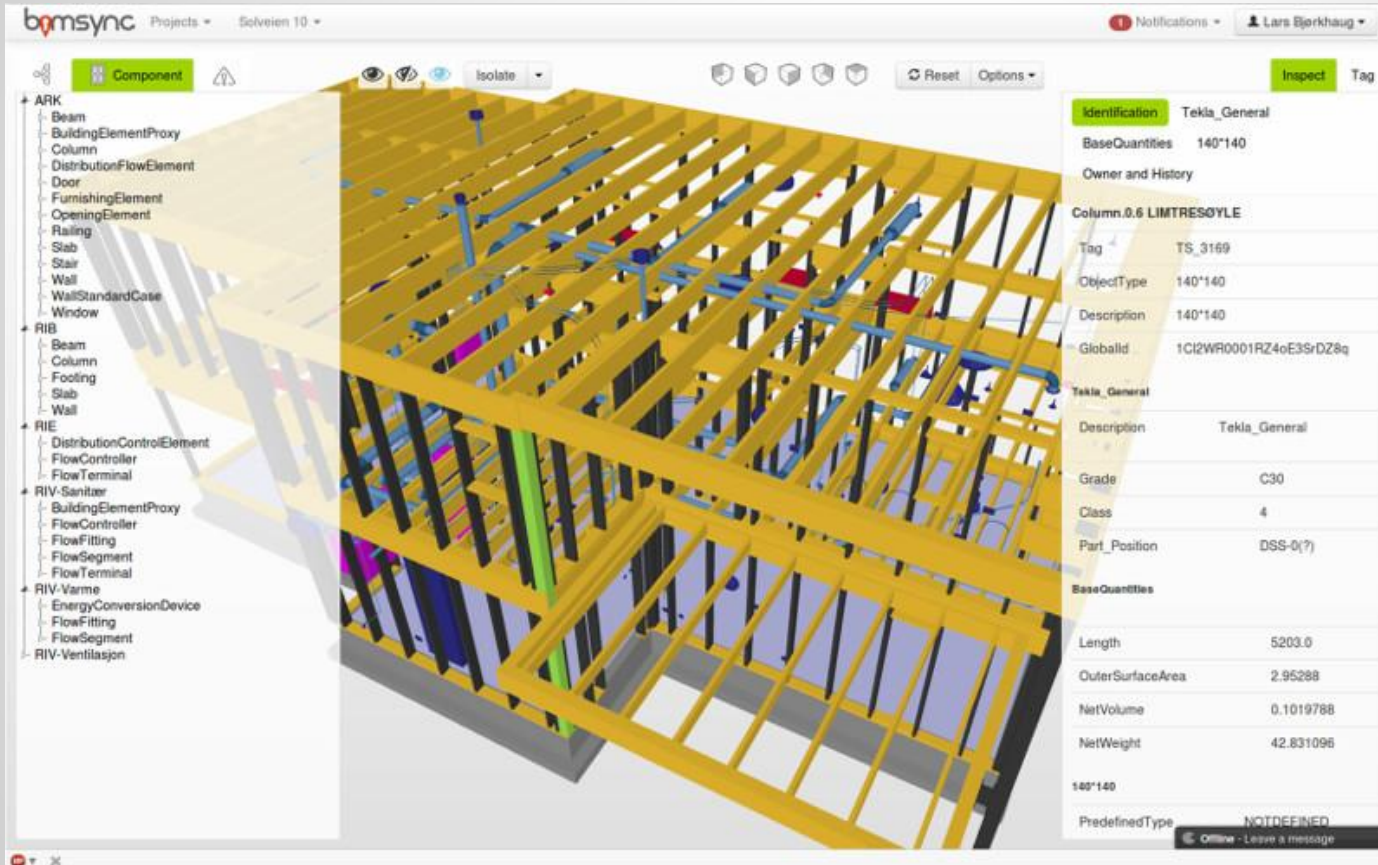
KNOWLEDGE SEARCH



Knowledge search is a set of tools that brings written knowledge to phones, tablets and BIMtools by the use of BuildingSMART Data Dictionary.

[Read more](#)

bimsync



- open BIM platform (IFC based modelserver++)
- UI based on WebGL
- New viewer which is quick even with really large models
- API for viewer and data

Powerful terms - “bsDD”

bsdd.buildingsmart.org

buildingSMART Data Dictionary

ISO 12006-3 based ontology for the building and construction industry

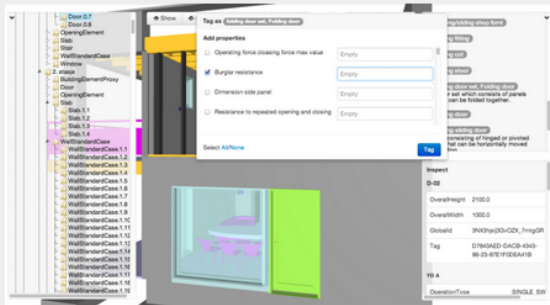


Image courtesy of bimsync.com

Current count in bsDD database:

Number of concepts:	92 958
Number of names:	230 689
Number of relations:	100 881
Number of languages:	27
Number of contexts:	20
Number of users:	377

Welcome to the buildingSMART Data Dictionary. You may browse and search the content of the buildingSMART Data Dictionary from this web page. We highly recommend that you register as a user, but it is possible to access the Dictionary without registering. It is also possible to use the buildingSMART Data Dictionary Application Programming Interface (API) and data from the Data Dictionary in your own applications. For more information see below or contact the [buildingSMART Data Dictionary Support Team](#). More information about the Data Dictionary is available at [buildingSMART Data Dictionary's formal web site](#).

To join the [community](#), where you can report issues, discuss use cases or just help each other out, please go to our [community site](#).

Building Smart Data Dictionary

-- short: **bsDD**

-- **ISO**-standard

-- owned by **buildingSMART** international

-- the new technical implementation (“**Peregrine**”) is developed by Catenda

-- Purpose

contains **canonical** definitions of terms

-- -- ordered by **contexts**

-- -- designed so that terms have different names in different **languages**. Synonyms, descriptions etc.

-- -- Point: **know what terms really mean** (a large and important problem).

Very high activity: [http://www.ifd-](http://www.ifd-library.org/images/ProductRoomWorkshopMunich_Notes.pdf)

[library.org/images/ProductRoomWorkshopMunich_Notes.pdf](http://www.ifd-library.org/images/ProductRoomWorkshopMunich_Notes.pdf)


KnowledgeSearch-- uses bsDD

← → ↻ 🏠 🔒 https://itunes.apple.com/no/app/elforlaget+/id431468120?l=nb&mt=8 🔍 ☆ »

Elforlaget+

Av Catenda AS

Åpne iTunes for å kjøpe og laste ned apper.



[View in iTunes](#)

Beskrivelse

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[Nettsted for Catenda AS](#) [Støtte for Elforlaget](#)

Hva er nytt i versjon 1.0.1

Fixed bug causing the application to crash when choosing new keyword

Gratis

Kategori: Oppslagsverk
Oppdatert: 2. mai 2012
Versjon: 1.0.1
Størrelse: 0.6 MB
Språk: Engelsk
Utvikler: Catenda AS
© 2011 Catenda and Elforlaget
[Aldersgrense: 4+](#)


Kompatibilitet: Krever iOS 4.2 eller nyere. Kompatibel med iPhone, iPad og iPod touch.

Kundevurderinger

Nåværende versjon:
★★★ 5 vurderinger

Alle versjoner:
★★★ 12 vurderinger

iPhone-skjermbilde



NetCom 11:13 100%


Klikk her for å søke

Formler Tabeller

Bokmerker Andre bøker

Monterhåndboka 2010 (v1.0)
Monterhåndboka NEK 400:2010
Just Erik Ornbostad

krutikopling



NetCom 11:13 100%

1/4

$$t = \frac{k^2 \cdot S^2}{l^2}$$

S mm²

l A

Kabelens ledemateriale og isolasjon

k -

t = s

Kalkuler Nullstill Åpne velviser

All CoBuilder products will use bsDD

cobuilder.com/dopcreator/



DoPcreator

Key Features Quick guide CPR Standards CE marking

Create your Declaration of Performance

Easy to use tool for creating DoP according to Construction Products Regulation (CPR) in multiple languages.

[» Try it now](#)

The manufacturer shall draw up a Declaration of Performance when a product covered by a harmonised standard (hEN) or a European Technical Assessment (ETA) is placed on the market. [LEARN MORE](#)

Other initiatives like IFDSignOn

IFD SignOn offers

1.4 mill products with basic product information



150.000 Maintenance documents
(covering about 400.000 building items.)

5.000 Safety data sheets (SDS)

10.000 products with Declaration of
Performance (DoP)

Access to 1.500 suppliers/manufacturers

Message

Use open international standards for content when creating and collaborating today

⇒ Real and rich data will be accumulated and real-world tested through the buildings life time

⇒ Today's and future practitioners and tool makers can use it, no lock in.

Topics

- Workflows and streamlined processes for the long term archival of the broad spectrum of architectural data.
- Semantic enrichment with metadata. Vocabularies/ontologies will be specified and developed.
- Consistent naming schemes and ontologies for architectural entities.
- Render semantically low-level 3D architectural data meaningful and interpretable.
- Dealing with point cloud data.
- Documenting the changing state of built architecture.
- Storage of highly enriched 3D architectural data in an existing OAIS compliant long-term preservation system (Rosetta/OAIS)

Other..

What is openBIM (4 min video): http://www.youtube.com/watch?v=2m_IL99WOzQ