Process of putting CCI content into the new bSDD

bSDD workshop – May 19th, 2021

buildingSMART Denmark

CCI - Background

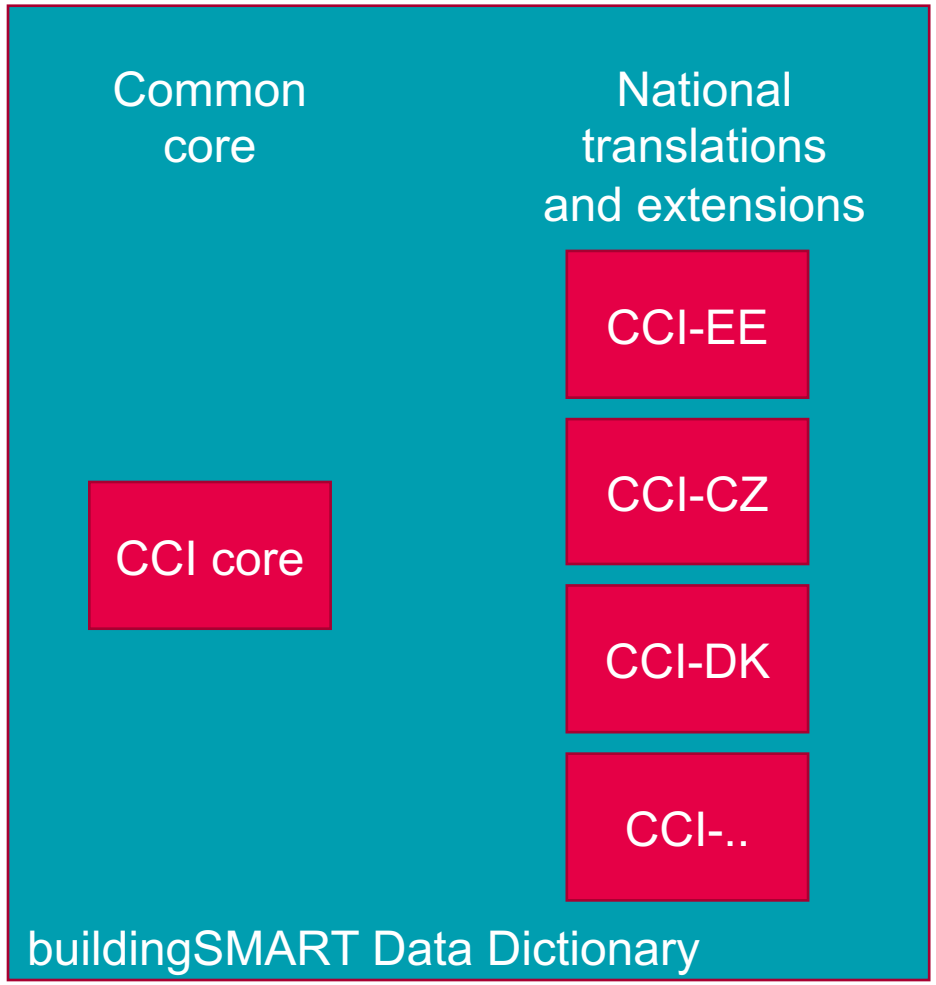
CCI is a classification system based on ISO/IEC 81346-2 and -12

The tables in CCI are to a large extent based on the CCS classification system from Denmark

The CCIC organization consisting of members from 4 countries is the forum for collaboration around CCI

Representatives from 4 more countries are participating in the CCIC Technical Committee work

Expected benefits



The aim of putting CCI into bSDD is to make it publicly available through a common interface

Translations of terms and definitions will be available through bSDD

As National editions evolve over time, it will be possible to discern the areas where the National versions are deviating from the core

IFC alignment

bSDD
a service by buildingSMART International

Classification
Window ENGLISH

Namespace URI	http://identifier.buildingsmart.org/uri/molio/cciconstruction-1.0/class/L-QQA
Domain	CCI Construction
Domain version	1.0
Domain license	MIT license
Domain state	Released
More info	https://anvisninger.molio.dk/Gratis-vaerktojer/CCI_Klassifikation
Domain quality assurance procedure	Private
Owner	Molio
Parent classification	Space access object
Related IFC entities	IfcWindow IfcWindowStandardCase
Description	space access object for light entry only
Synonym(s)	Window element

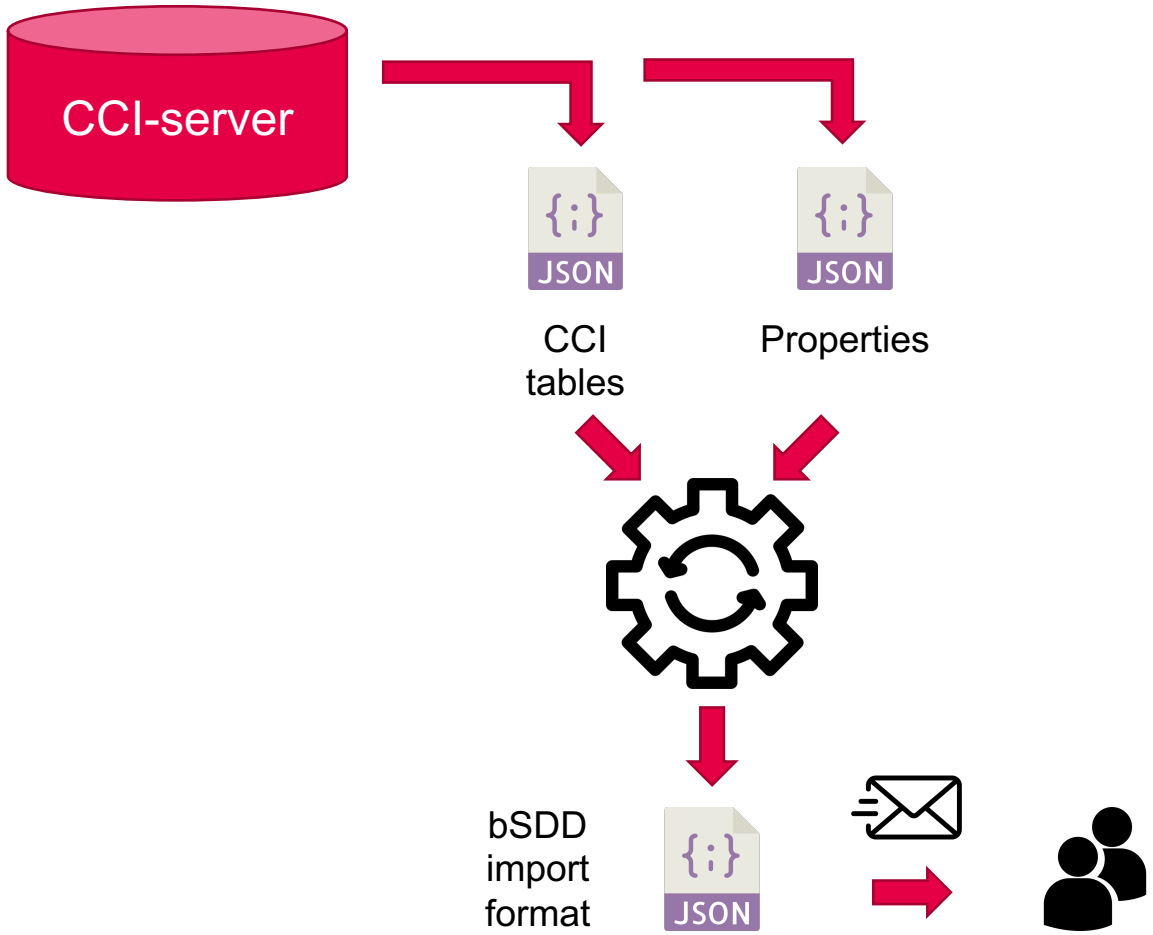
Properties

FireExit	Indication whether this object is designed to serve as an exit in the case of fire TRUE or not FALSE . Here whether the space in case of e.g., a corridor is designed to serve as an exit space, e.g., for fire escape purposes.
FireRating	Fire rating for the element. It is given according to the national fire safety classification.
GlassLayers	Number of glass layers within the frame. E.g. 2 for double glazing.
HasDrive	Indication whether this object has an automatic drive to operate it TRUE or no drive FALSE
IsExternal	Indication of whether the junction box type is allowed for exposure to outdoor elements set TRUE where external exposure is allowed .
ThermalTransmittance	Thermal transmittance coefficient U Value of an element.

Relationships between CCI classes and IFC entities are included in the upload

The most commonly used IFC properties for the classes are linked to the content

Scope of task



1. Retrieve CCI classes and properties from CCI API
2. Convert CCI JSON to bSDD JSON
3. Send bSDD JSON to Léon and Erik

Import template

master bSDD / 2020 prototype / import-model / bsdd-import-model.json Go to file ···

Baars-IT Add NamespaceUri to AllowedValues ✕ Latest commit 28aa452 on 9 Apr History

1 contributor

124 lines (124 sloc) | 3.68 KB Raw Blame


```
{
    "OrganizationCode": "",
    "DomainCode": "",
    "DomainVersion": "",
    "DomainName": "",
    "ReleaseDate": null,
    "Status": "",
    "MoreInfoUrl": "",
    "UseOwnUri": false,
    "DomainNamespaceUri": "",
    "LanguageIsoCode": "",
    "LanguageOnly": false,
    "License": "",
    "LicenseUrl": "",
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    "Classifications": [{
        "Code": "",
        "OwnedUri": "",
        "Uid": "",
        "Name": "",
        "Definition": "",
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        "VersionDateUtc": "2020-12-09T00:00:00+01:00",
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        "VersionNumber": null,
        "RevisionNumber": null,
```


Github repository:

https://github.com/buildingSMART/bSDD/tree/master/2020%20prototype/import-model

Format for properties:

http://identifier.buildingsmart.org/uri/buildingsmart/ifc-4.3/prop/ThermalTransmittance

Considerations?

How many domains?

Which properties to include?

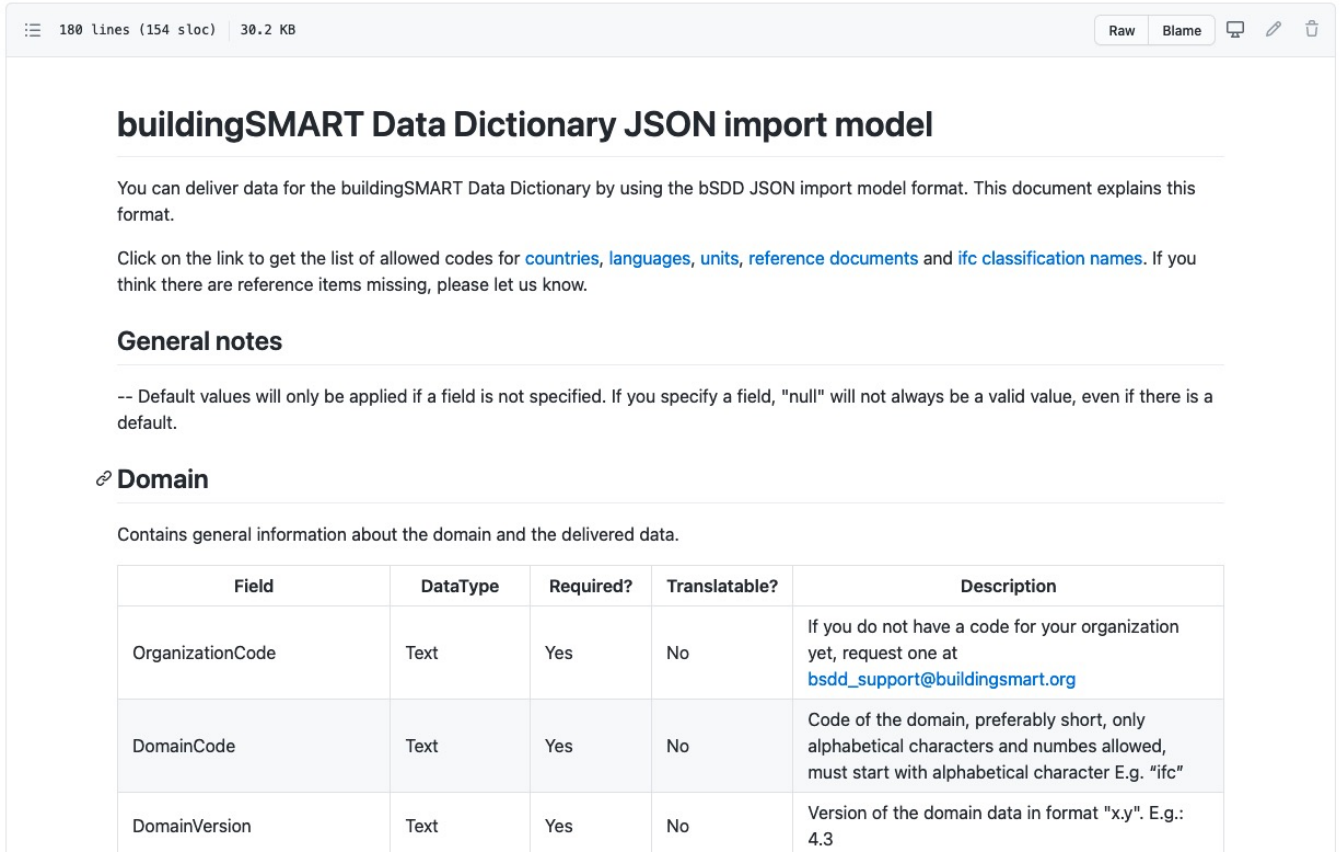
How to refer to properties?

Each domain in bSDD has one ”starting point” and all content in the domain relates to that

Only IFC properties are included because we are in a transition phase concerning the handling of properties

Properties are linked through namespace uri’s for IFC4.3 properties

Support



180 lines (154 sloc) | 30.2 KB

Raw | Blame

buildingSMART Data Dictionary JSON import model

You can deliver data for the buildingSMART Data Dictionary by using the bSDD JSON import model format. This document explains this format.

Click on the link to get the list of allowed codes for countries, languages, units, reference documents and ifc classification names. If you think there are reference items missing, please let us know.

General notes

-- Default values will only be applied if a field is not specified. If you specify a field, "null" will not always be a valid value, even if there is a default.

Domain

Contains general information about the domain and the delivered data.

Field	DataType	Required?	Translatable?	Description
OrganizationCode	Text	Yes	No	If you do not have a code for your organization yet, request one at bsdd_support@buildingsmart.org
DomainCode	Text	Yes	No	Code of the domain, preferably short, only alphabetical characters and numbes allowed, must start with alphabetical character E.g. “ifc”
DomainVersion	Text	Yes	No	Version of the domain data in format "x.y". E.g.: 4.3

Documentation:

https://github.com/buildingSMART/bSDD/blob/master/2020%20prototype/import-model/bSDD%20JSON%20import%20model.md

Issues solved through mail dialogue with Léon and Erik in 7 emails over a 10 day period

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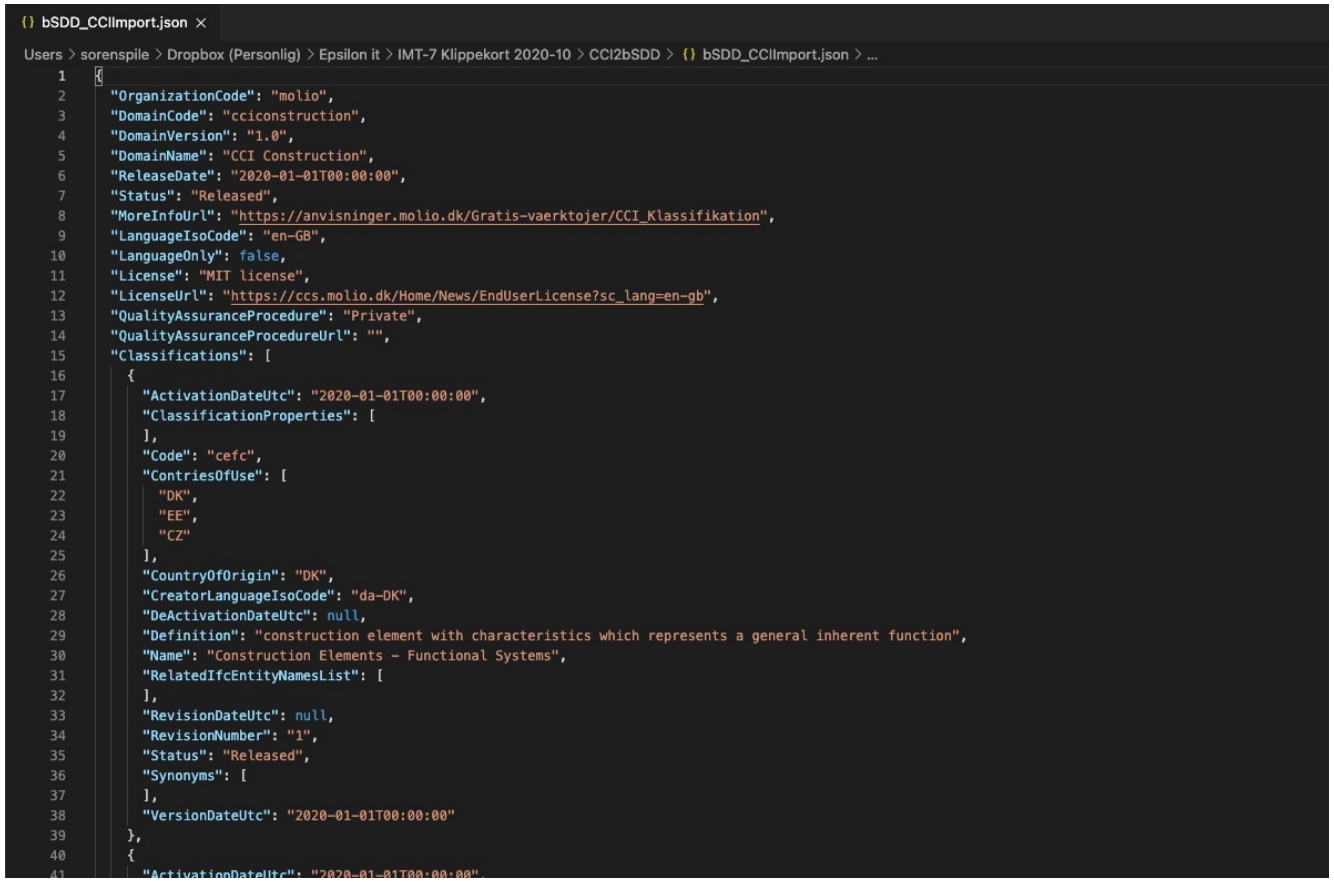
Import file

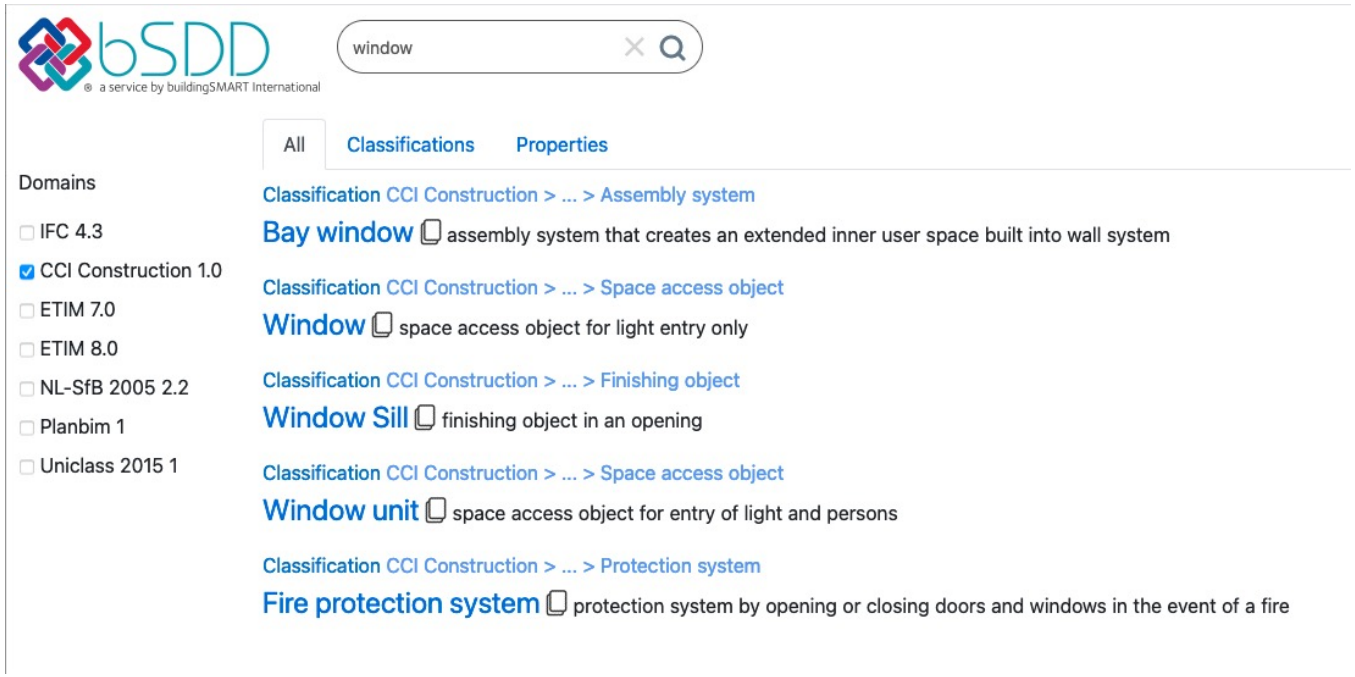


Finished file for bSDD import

Header-section and all classes at the same level

Tree-structure is established by referring to parent-classes

Outcome



The result can be browsed at https://bs-dd-search-prototype.azurewebsites.net/

It shall be perceived as a preliminary POC-version which will be updated as the work in the CCIC Technical Committee progresses