



# Software Certification

General Assembly of Implementers  
Westminster (CO) USA  
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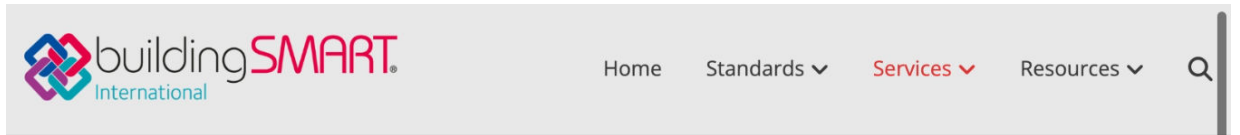
# New setup (summary)

<https://technical.buildingsmart.org/services/certification/>

There are two levels of IFC software certification:

1. A base, generic level, called **Global IFC Software Certification**.
2. A specific level, called **Use-case based IFC Software Certification**.

Each of these is further divided into export and import parts.



## buildingSMART International Software Certification Program

The buildingSMART Software Certification Program aims to promote consistent and reliable implementations of buildingSMART standards across multiple software vendors and applications throughout the global marketplace. Such consistency helps drive more rapid evaluation, deployment, and acceptance of such standard for the exchange and sharing of building information models.

Currently, the focus is on the implementation of the IFC schema for data exchange. There are two levels of IFC software certification:

- A base, generic level, called **Global IFC Software Certification**.
- A specific level, called **Use-case based IFC Software Certification**.

Each of these is further divided into export and import parts.

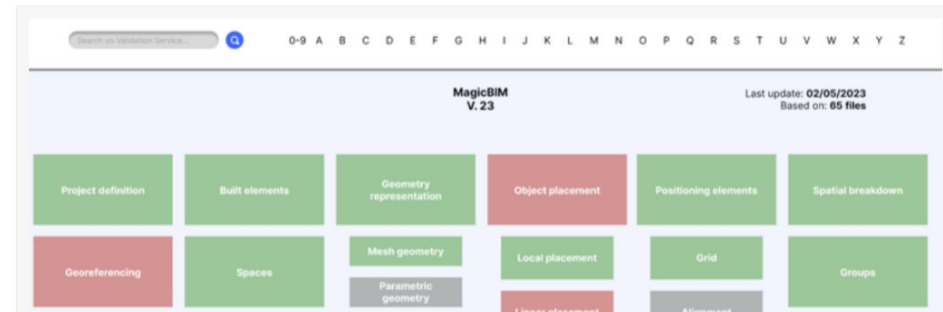
### Global IFC Software Certification (export)

The Global IFC Software Certification measures the validity of IFC files produced by software tools. The metrics are generated from the anonymous data collected by the buildingSMART.

Every user can upload their IFC file to get a report about the validity of the file. The aggregation of the results is used to generate 'score cards' about the performance of software tools supporting IFC.

The scorecards are generated per version of a software tool. IFC uploads from software vendors are ignored when producing the scorecards. This means the score cards can only be generated for software tools that are used in practice by actual users. They are only generated when the data in the Validation Service are statistically significant.

Besides the validity (green) and invalidity (red), the score cards also give an overview of what functional parts of IFC are supported and which ones are not. For example, tools that don't export *alignment* will get a 'grey' card for the corresponding functional part. Tools that do support *alignments* correctly get a green card, tools that exported *alignment* with an error get a red card. There are multiple checks per functional part of IFC.

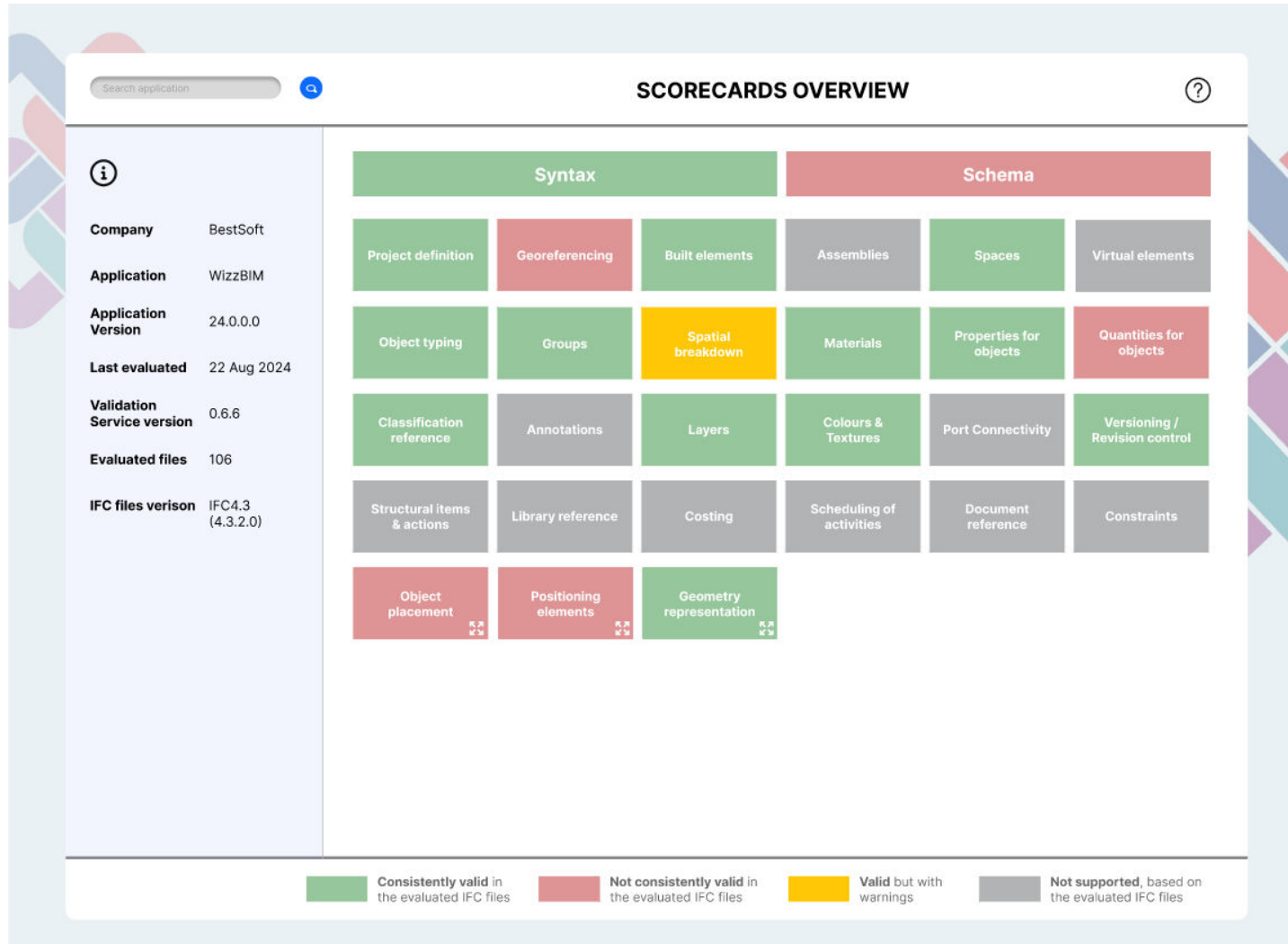


# Scorecards logic

Criteria used to extract metrics from IFC files, validated using the Validation Service, and aggregate them to provide a judgment on specific applications

# Scorecards logic

AKA, how to get this?



# Scorecards logic

Go to document:

<https://app.box.com/s/93xho1qrj7t8i6xahuxdr42ql1uigq13>



**SCORECARDS LOGIC**

# Import certification

