Yoram Kulbak, Pasi Paasiala Oct 2019

## Supported By

# ORACLE Aconex Soulding SMART. **GRAPHISOFT**















A NEMETSCHEK COMPANY





#### What do users say?

### **SKANSKA**

"Vendors are often unwilling to build integrations between tools, especially the project management solutions used by owners, designers, and contractors. It is a critical need in our industry, and we have needed to engage third parties and spend significant resources to get this done."

**Brian Tighe** 

Skanska USA

#### Current state of the market



No seamless transfer of information between tools



No single source of truth



Products are disconnected



 Low automation caused by missing integrations, so lots of manual work is required

#### Why

- Multiple applications used to manage the various BIM processes.
- This can lead to multiple sources of the truth being scattered across different systems.
- Projects need to trust the Common Data Environment to provide a single source of truth.

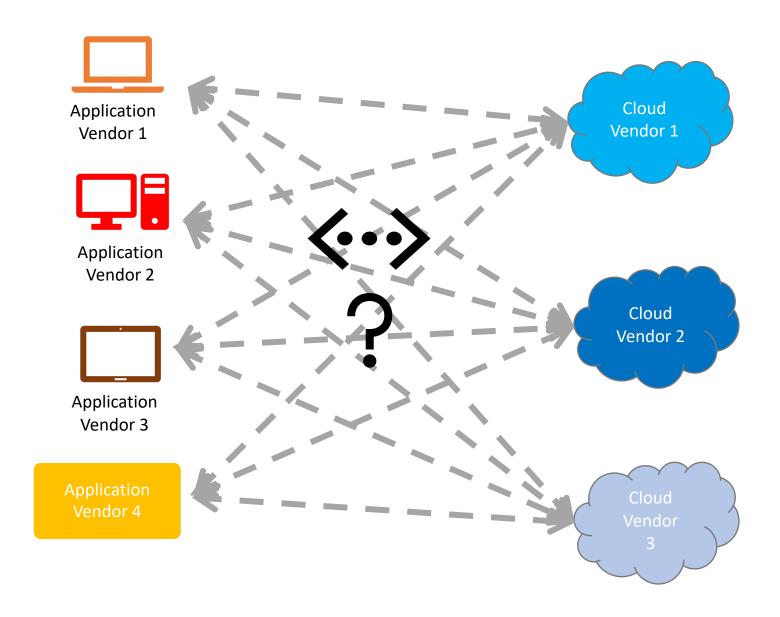
#### **Purpose**

- Well-defined, lossless data exchanges that ensure a continuous flow of information during a buildings' lifecycle.
- To reduce double handling and multiple versions of the truth

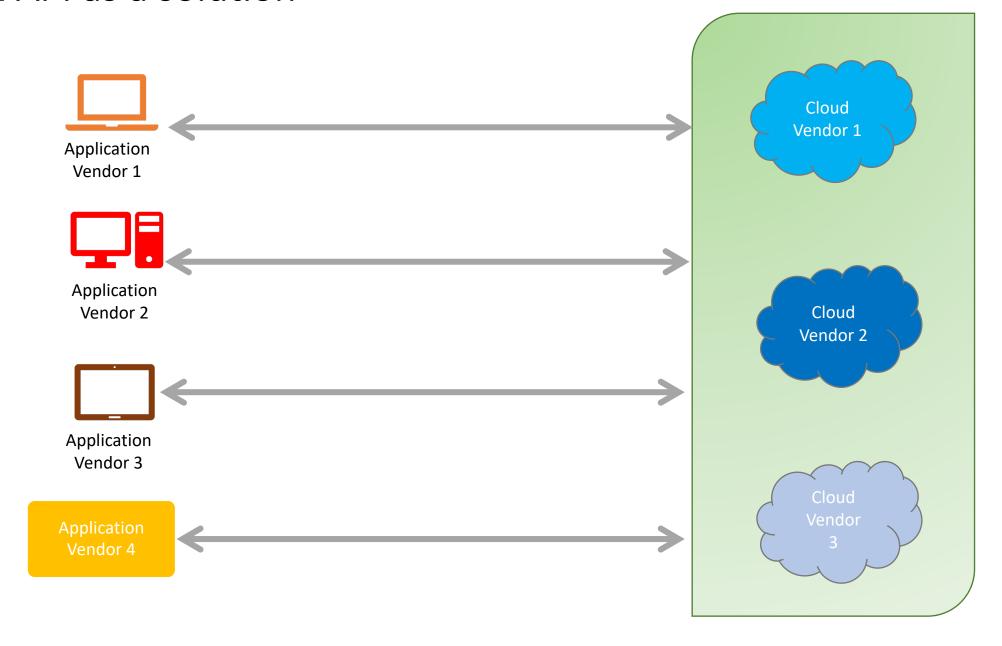
#### **Value**

- Faster process and cycle times
- Seamless transfer and flow of information
- Every project participant has the right and most up-to-date information
- No double handling of information across systems

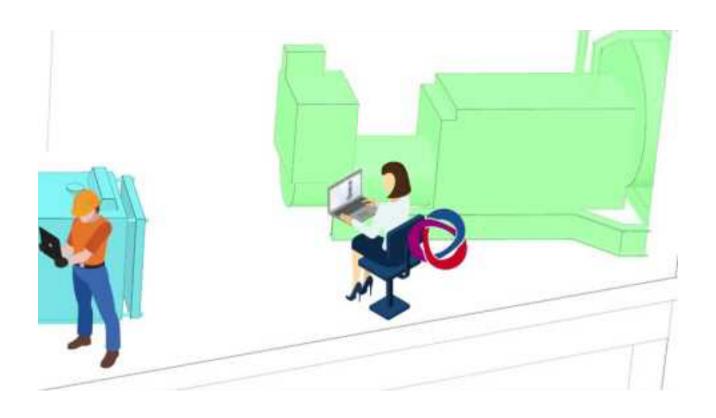
#### Integration Dilemma



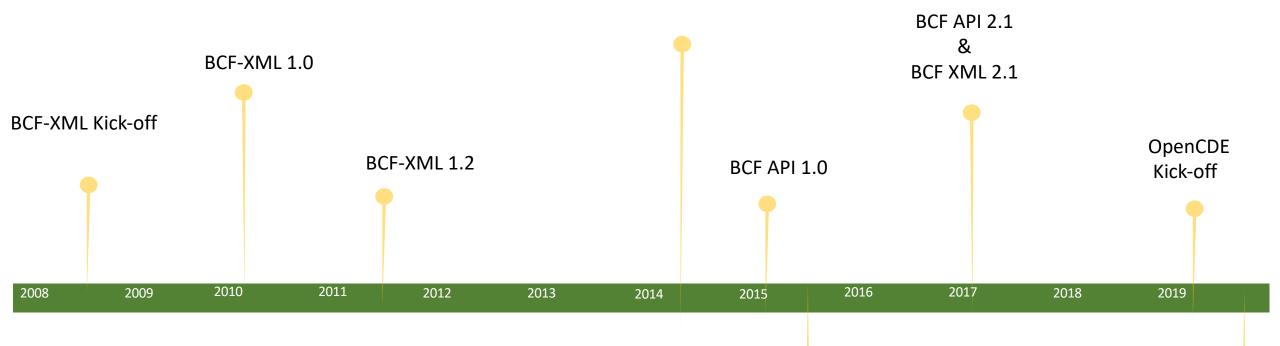
#### CDE API as a solution



## BCF – Problem Statement



## BCF & OpenCDE



**BCF-API Kick-off** 

First BCF Hackathon

Helsinki

- Meetings online every second Monday at 11<sup>am</sup> CET
- Follow/contribute in <u>https://github.com/buildingSMART/OpenCDE-API</u>
- To join, contact Klaus Linhard <u>linhard@iabi.eu</u> or Georg Dangl <u>dangl@iabi.eu</u>

## Approach



Focused APIs – each addressing a specific domain or workflow



APIs work in conjunction and share a similar "Look&Feel"



Prototype first, specify later



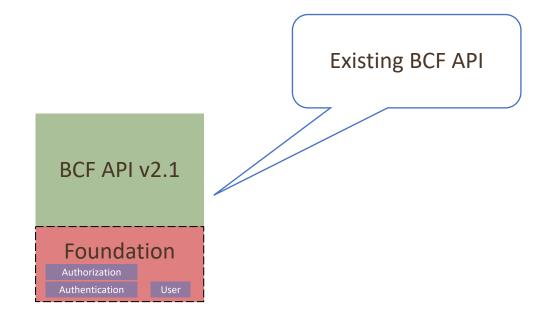
Put in front of users and get feedback

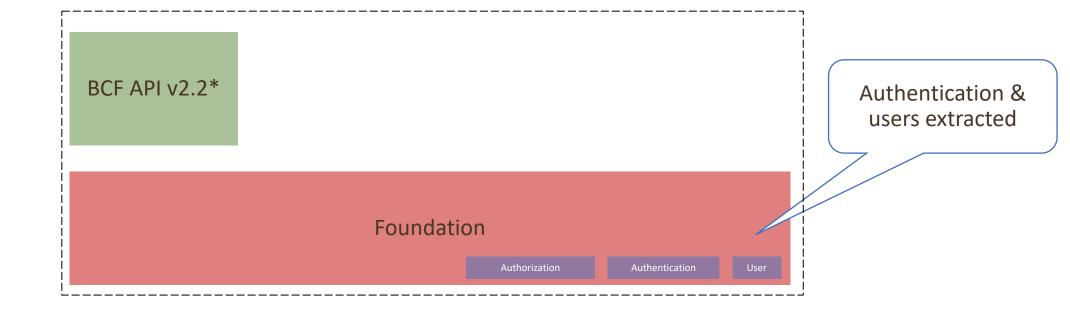


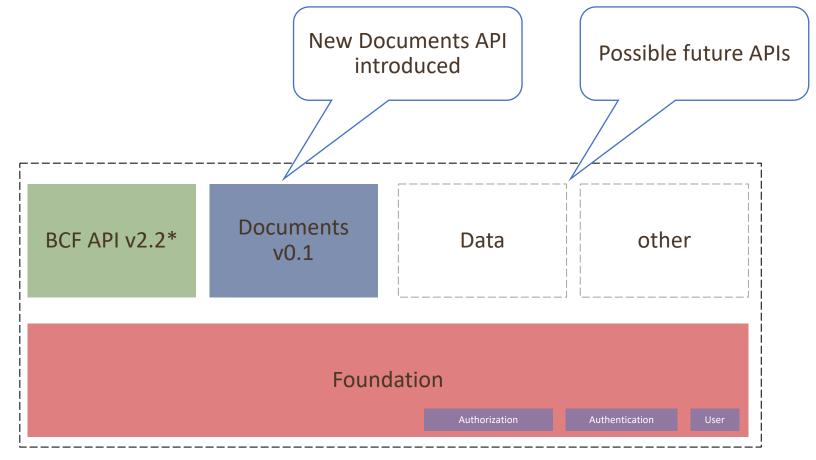
Reduce barriers to adoption



Open for all industries in all markets to join and influence

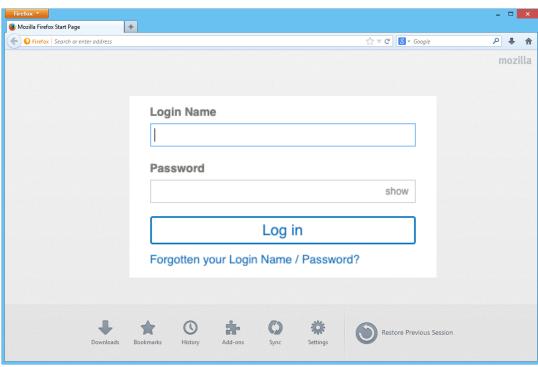


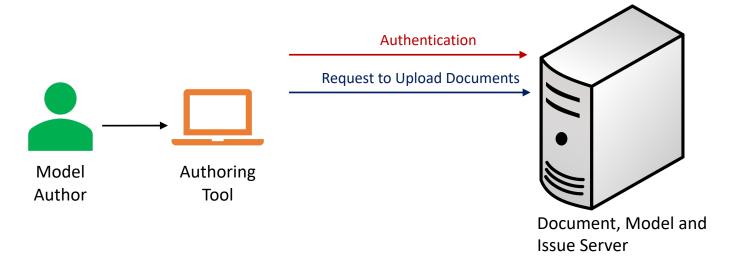


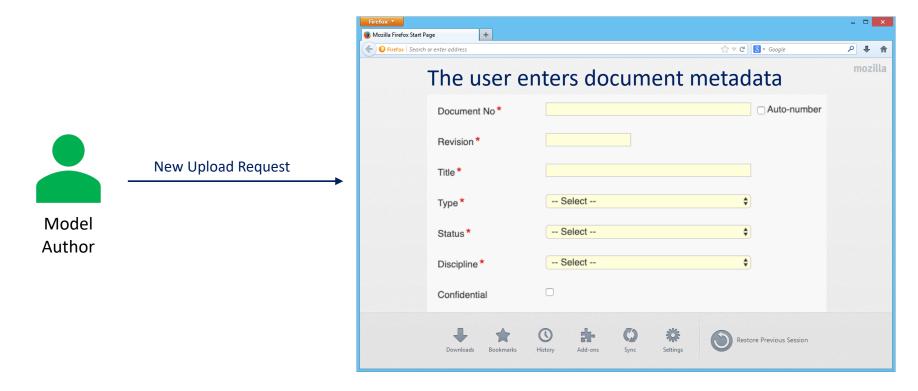


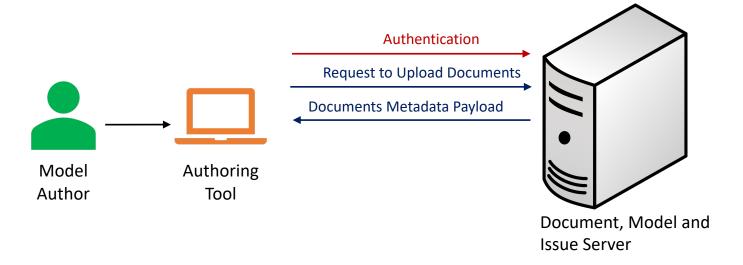


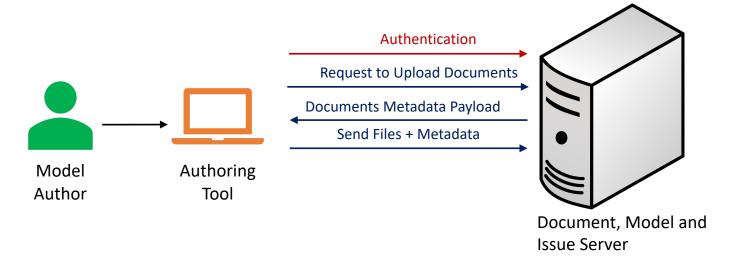


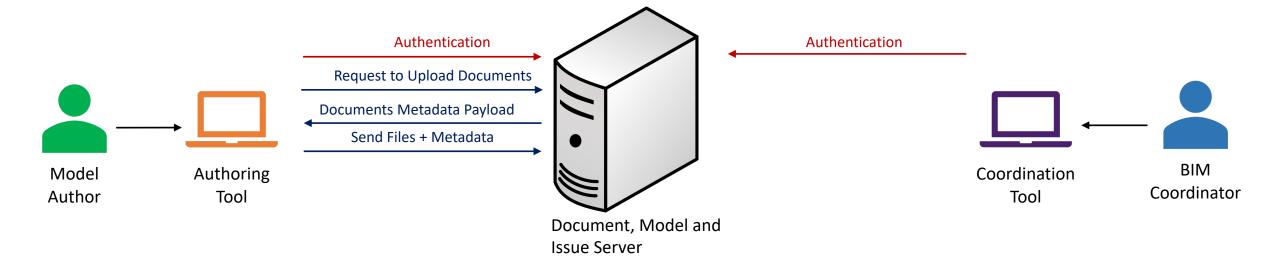


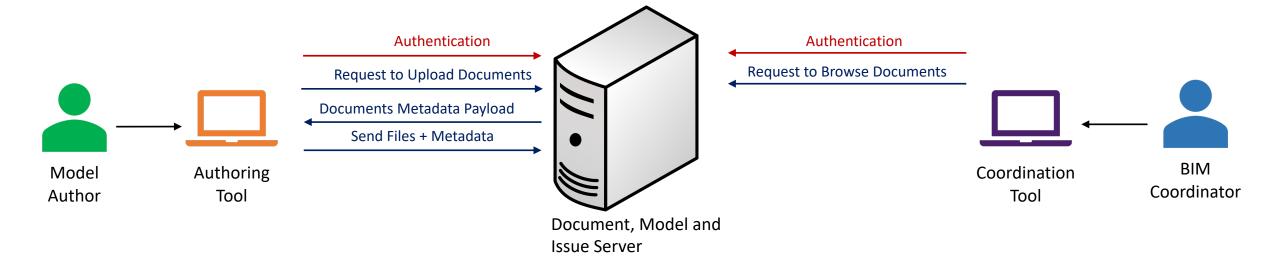


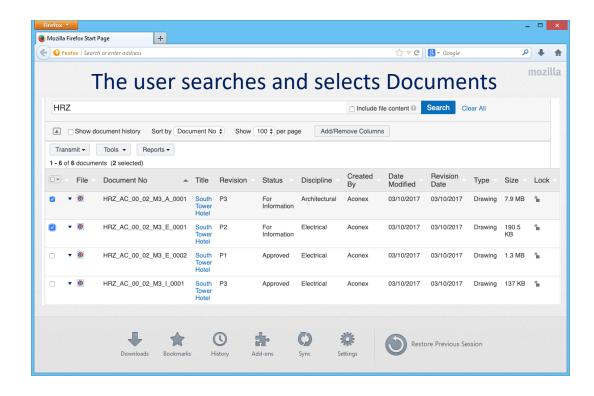






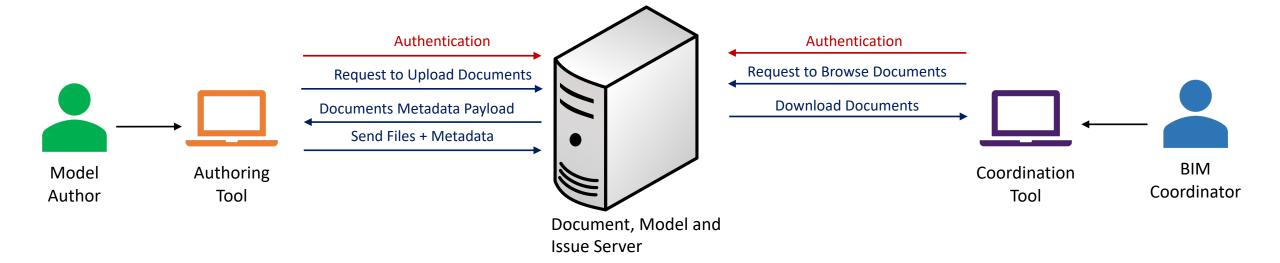


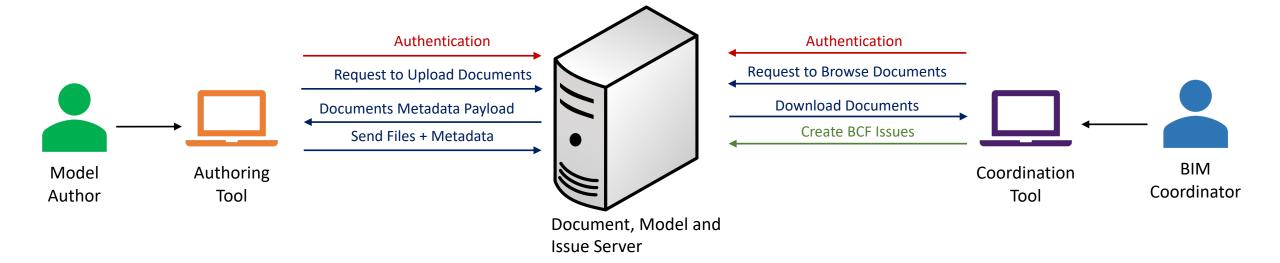


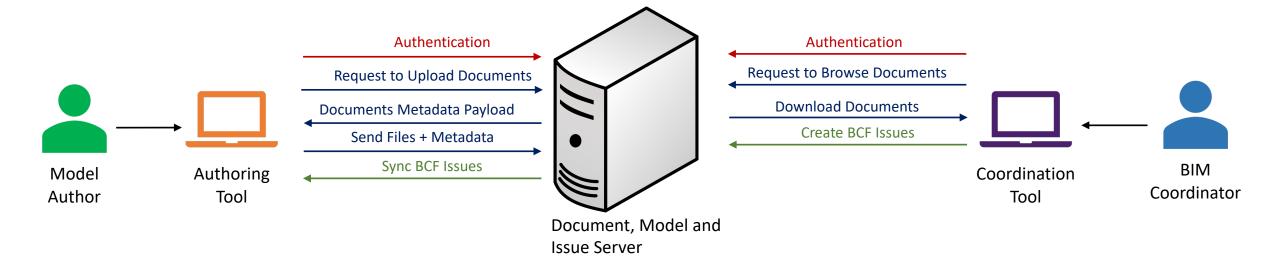


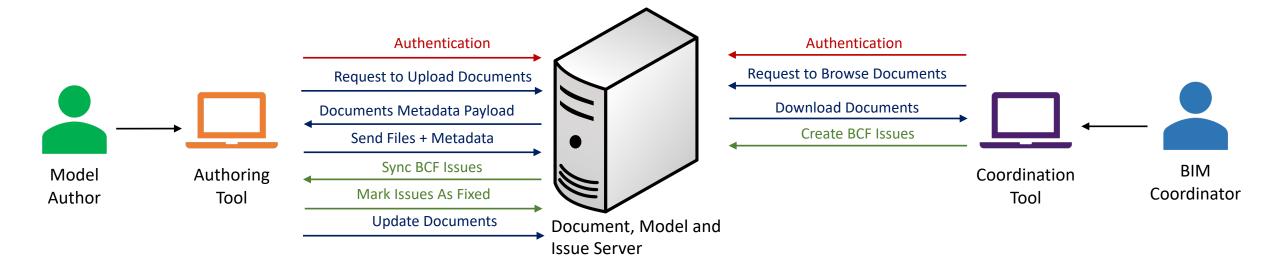
Browse and select documents

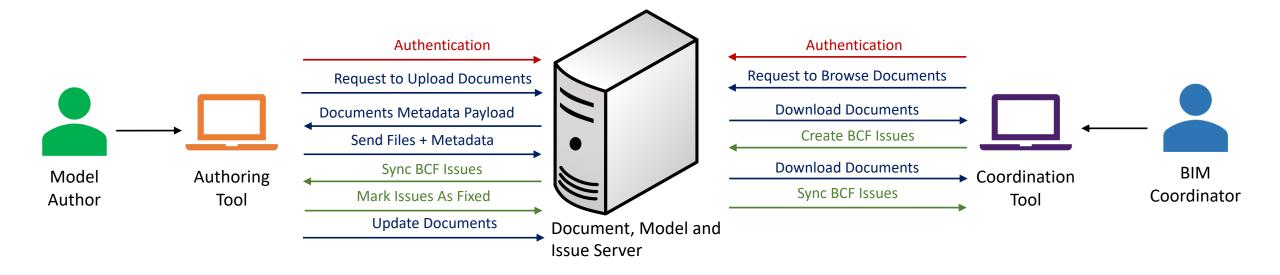
BIM
Coordinator

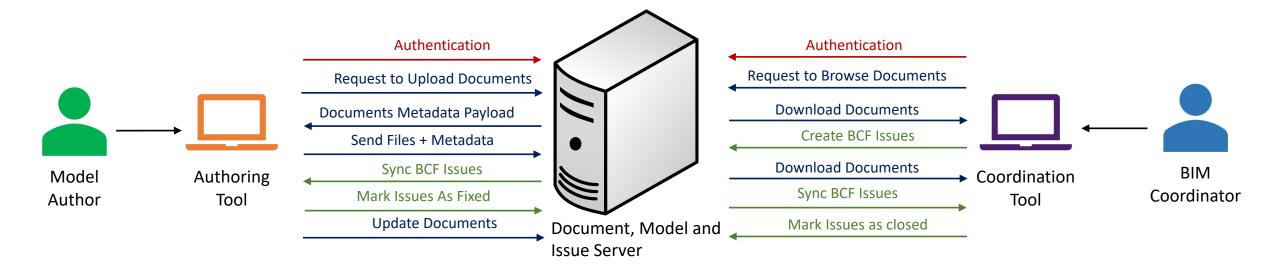


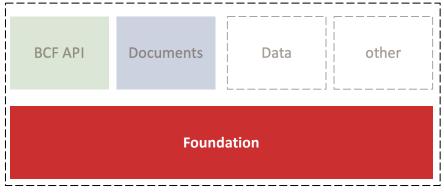


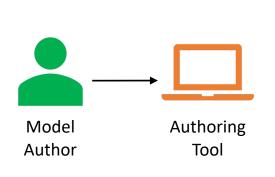


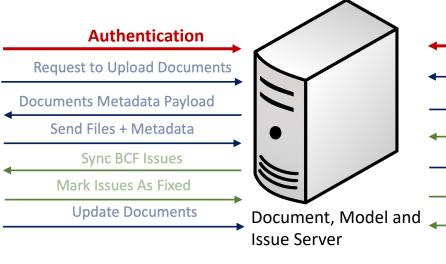


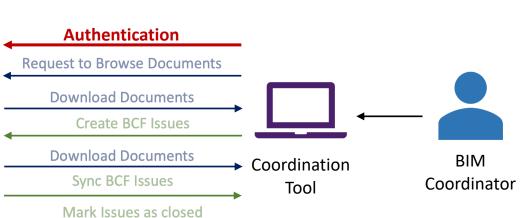


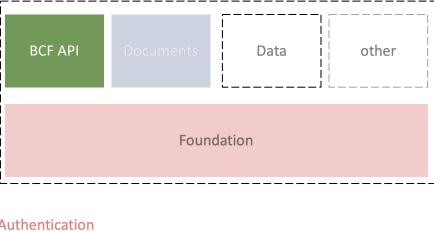


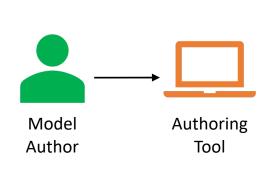


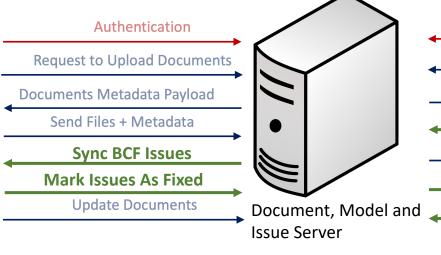


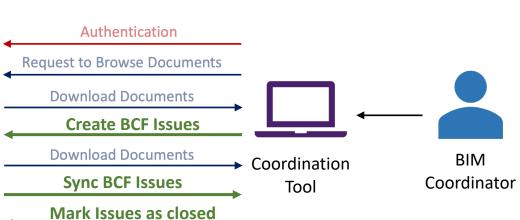


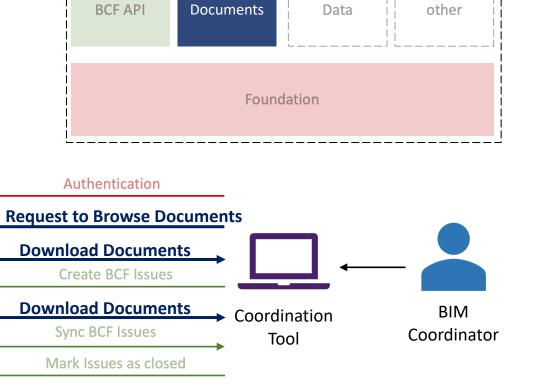


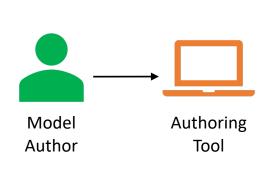


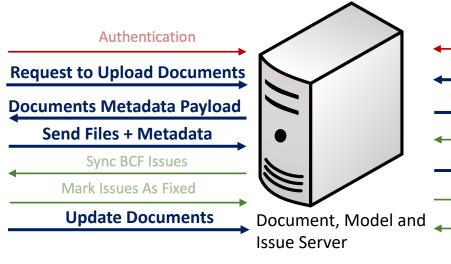












## Demo

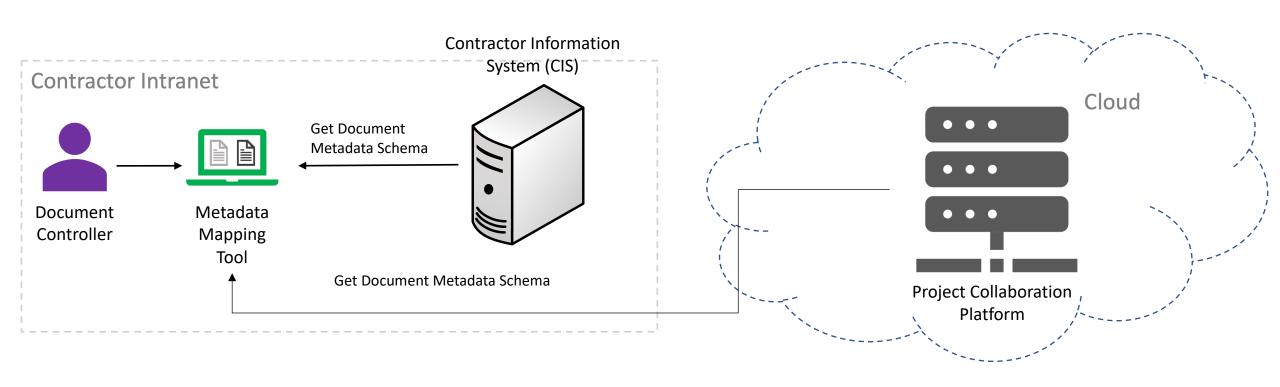
### Documents API scope

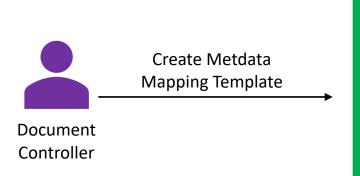
#### In Scope

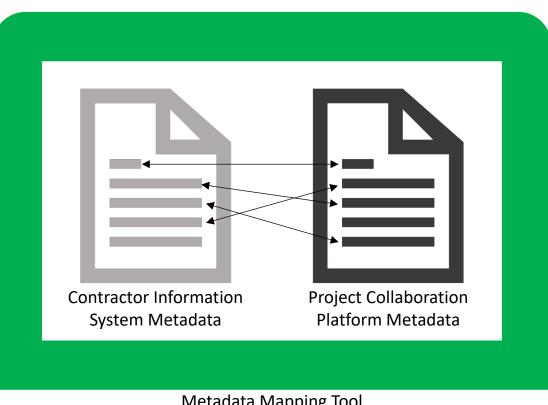
- Interactive (User to Server)
  - Document download
  - Document upload
  - Document update
  - Document distribution
- Non-interactive (Server to Server)
  - Document metadata mapping
  - Document synchronization

#### Not currently in scope

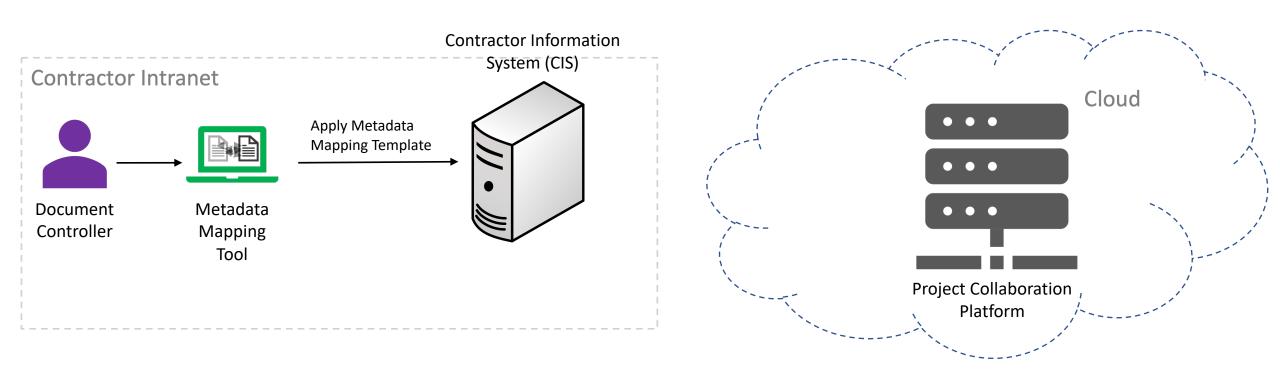
- Document Metadata
   Standardization
- Activity reporting

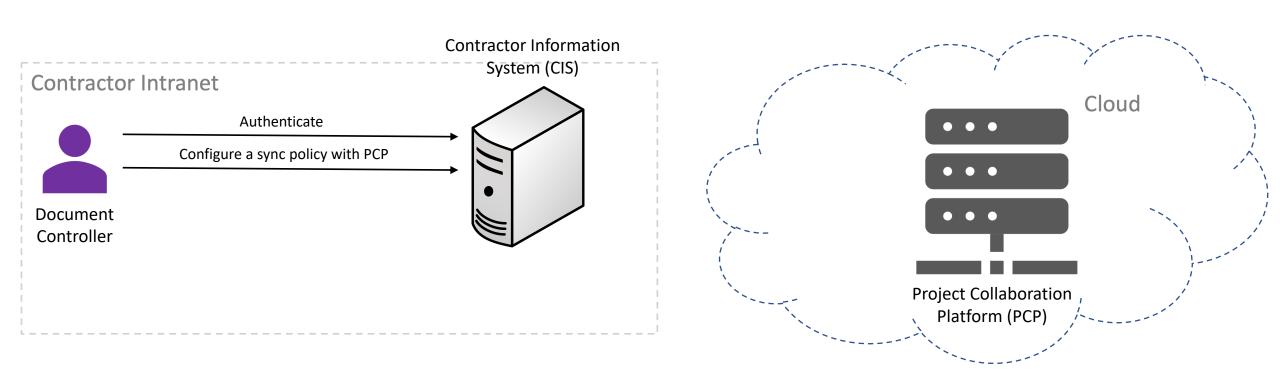


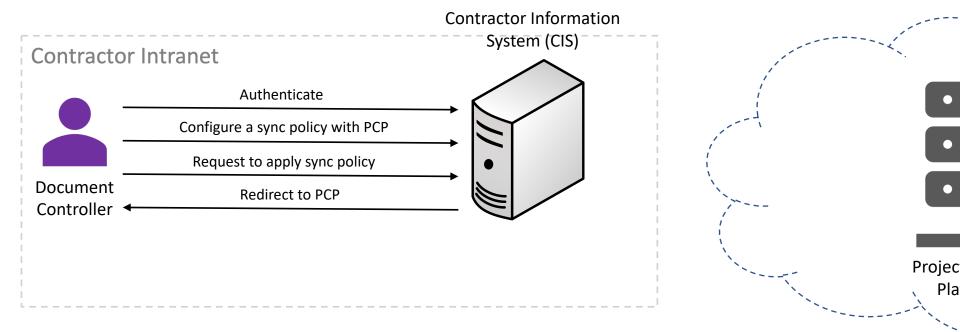


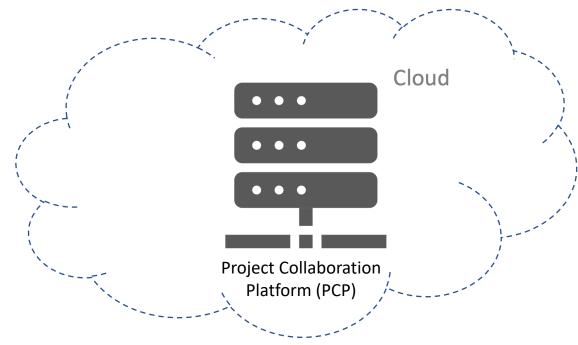


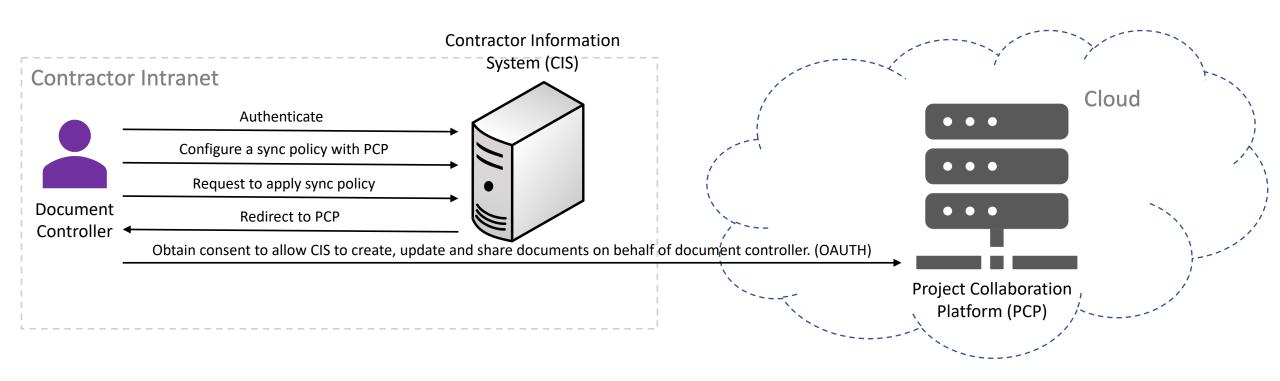
Metadata Mapping Tool



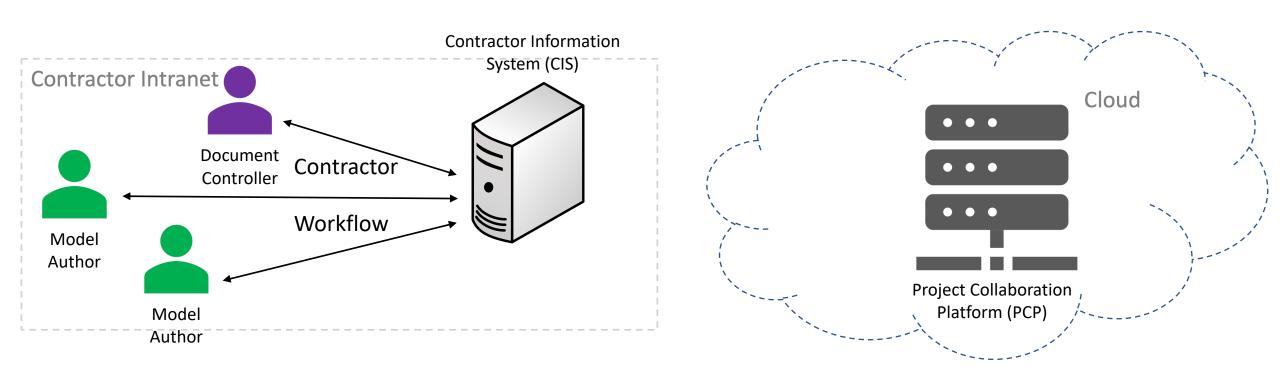








## Non Interactive Use Case - Ongoing



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