Introduction to BIM 360 Account Level API

BIM 360 Hackathon: Day 6

Mikako Harada

AEC Technical Lead and Americas Manager

Developer Technical Services, Autodesk

Webinar Series Quick Recap …

1. BIM 360 & Business Opportunity with App Store
2. BIM 360 & Forge API Overview
3. Authentication and Data Management API
4. Model Derivative API
5. Viewer API
6. BIM 360 Account Level API
7. Submitting a BIM 360 App to Autodesk App Store

Agenda

BIM 360 Account Level API

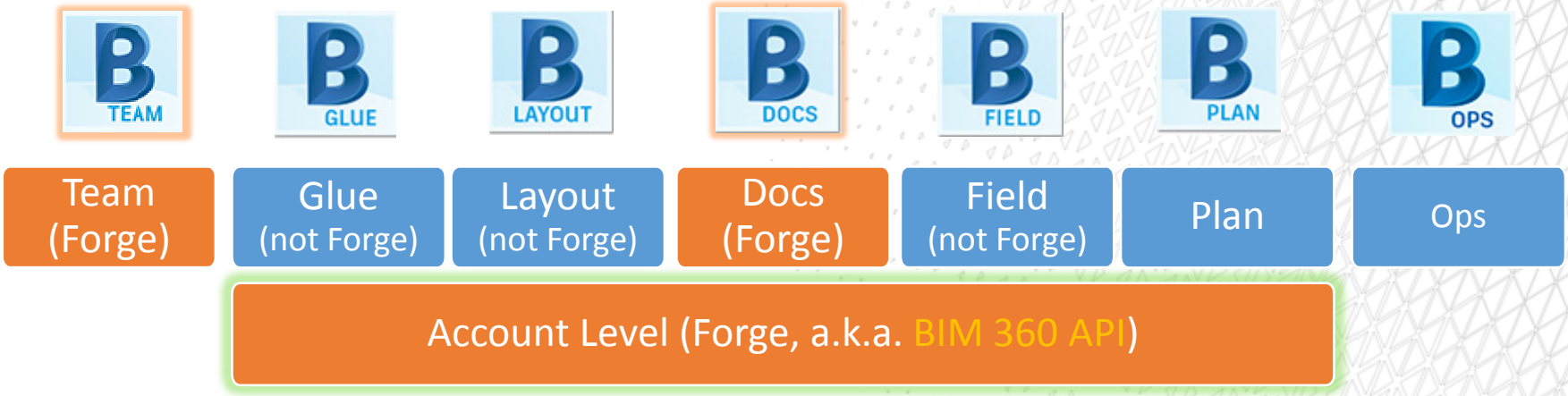
- Scope
- Authentication
- Account Level API

Q&A

BIM 360 Account Level API (a.k.a. BIM 360 API)

BIM 360 Family Products

Forge vs. non-Forge



BIM 360 Docs – API Overview

Authentication (OAuth)

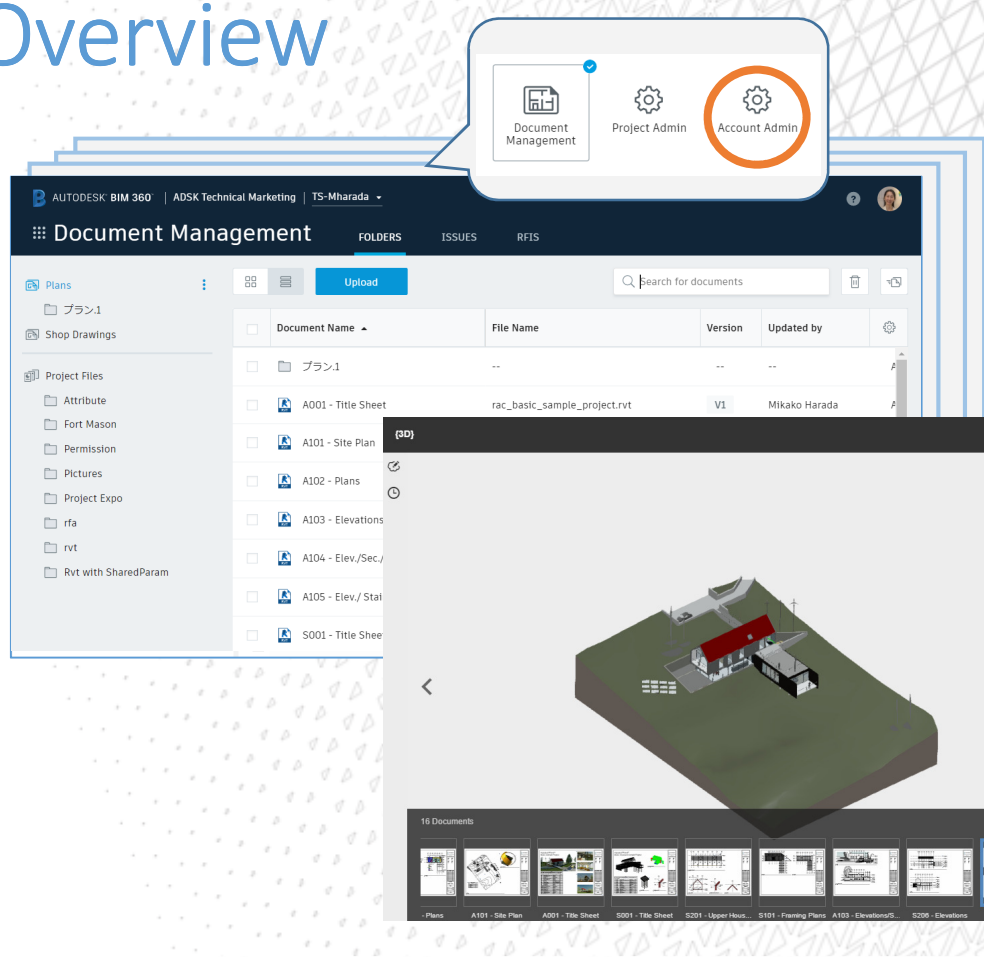
BIM 360 API (Account Level)

Data Management API

Model Derivative API

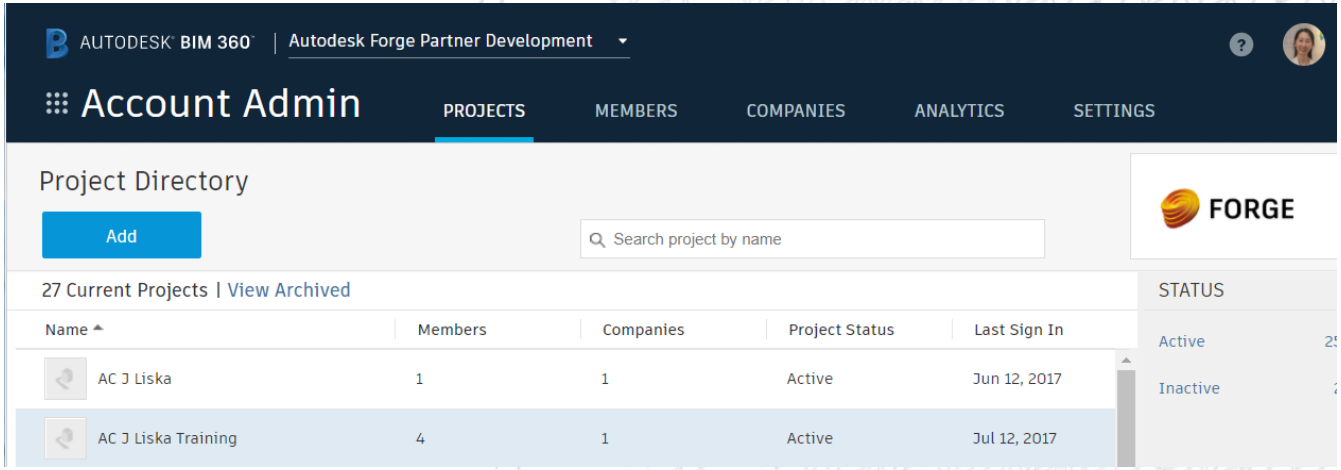
Viewer

Issues API (Future)



Account Admin API (BIM 360 API)

- admin.b360.autodesk.com
- Projects
- Members
- Companies



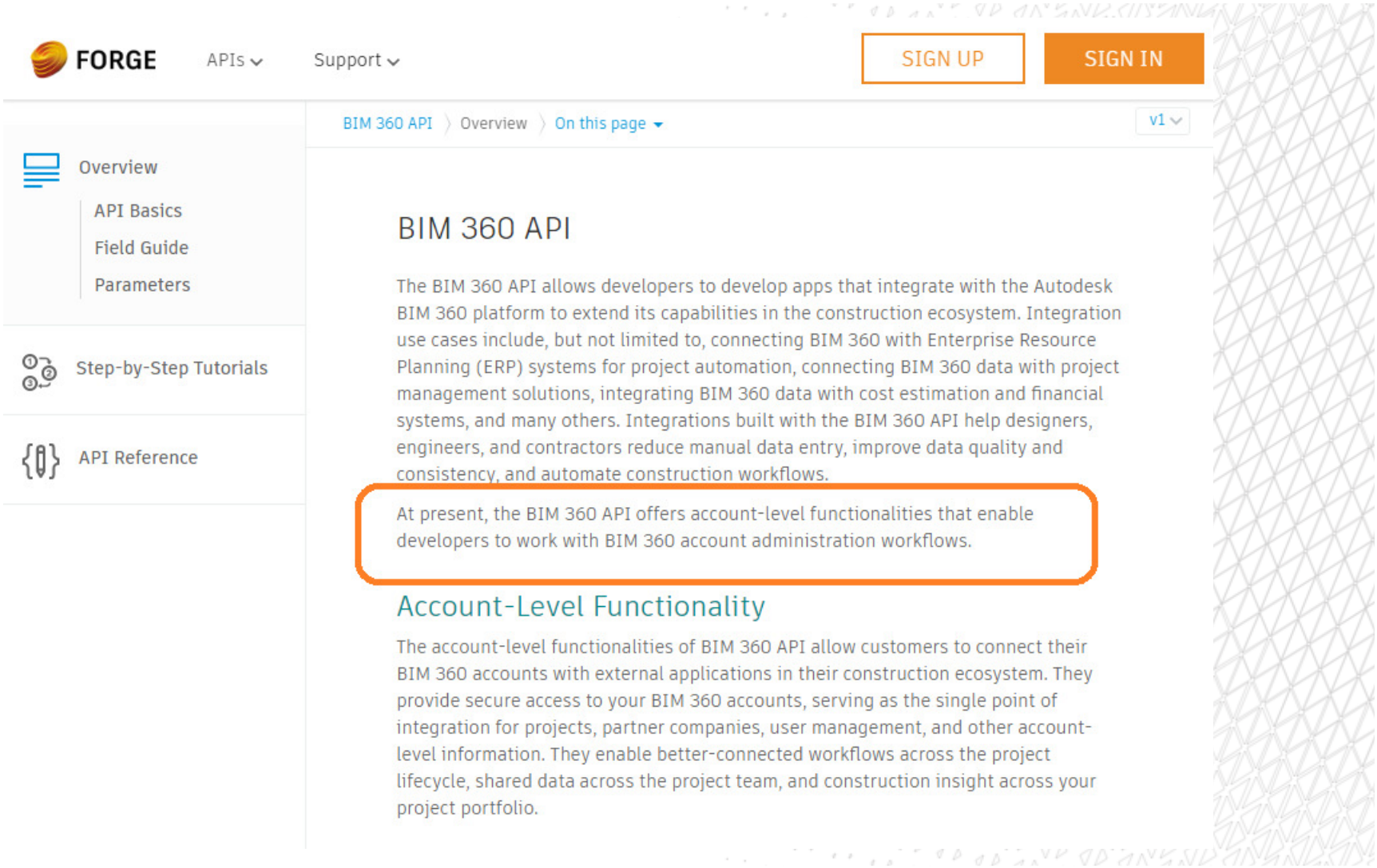
https://developer.autodesk.com/en/docs/bim360/v1/overview/

Forge and BIM 360 API – Scope

https://developer.autodesk.com/en/docs/bim360/v1/overview/

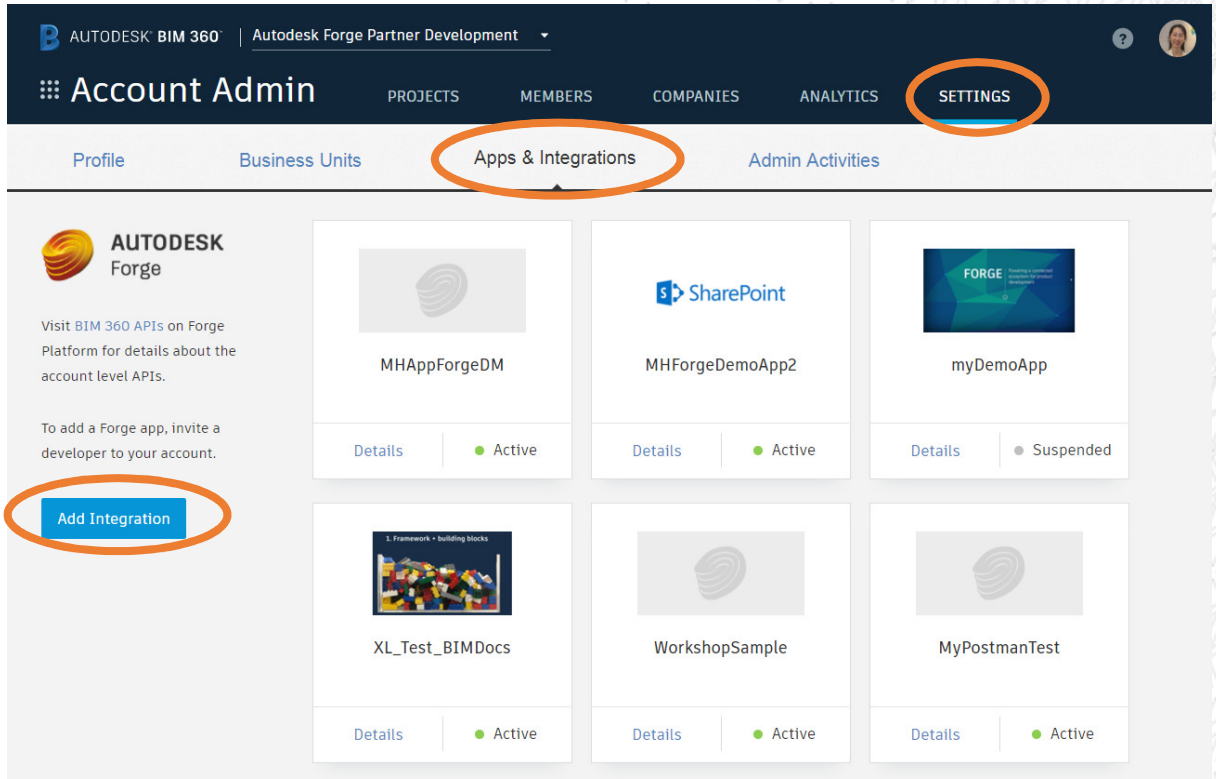
*"At present, the BIM 360 API offers **account-level functionalities** that enable developers to work with BIM 360 account administration workflows."*

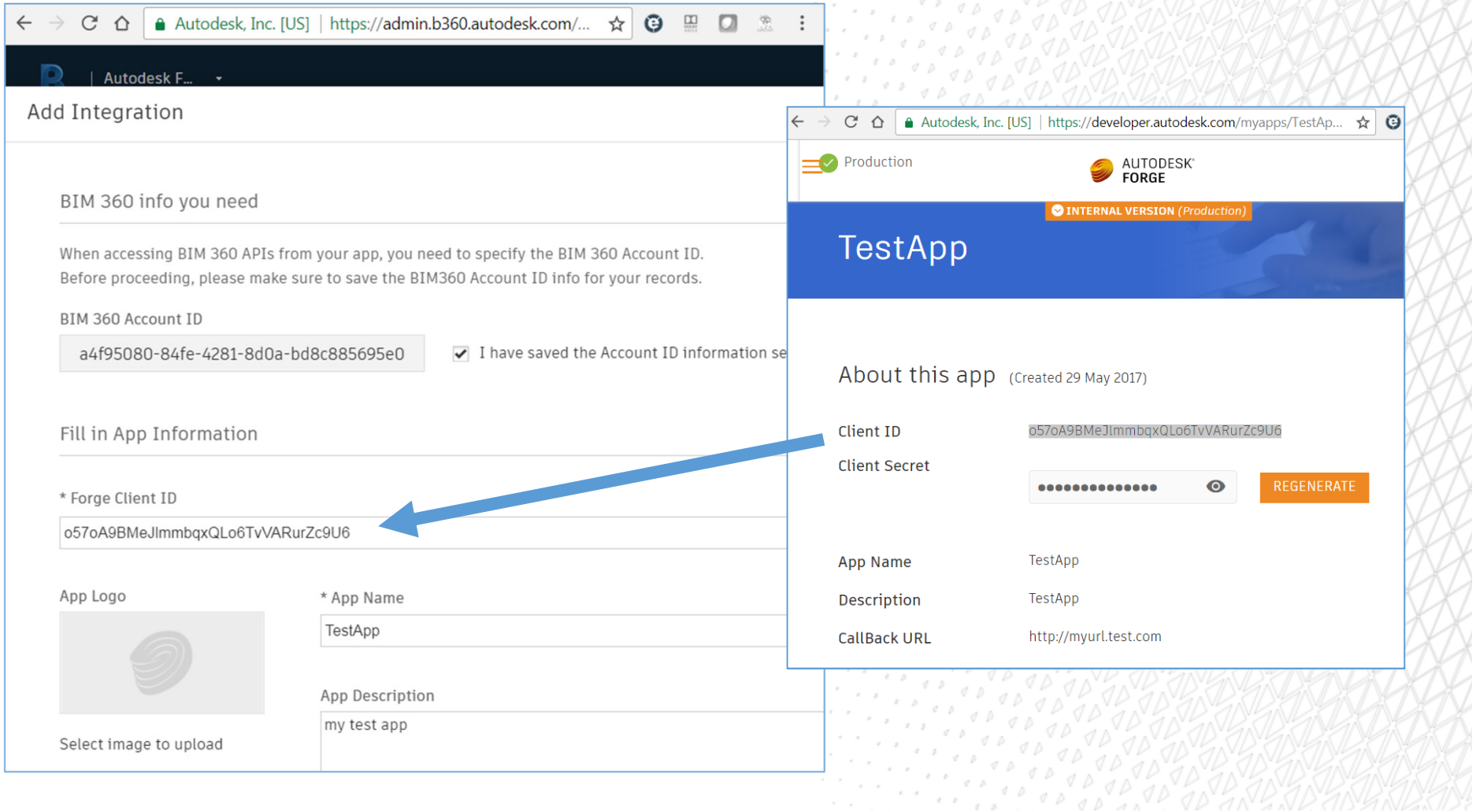
https://admin.b360.autodesk.com/


FORGE
APIs
Support
SIGN UP
SIGN IN
BIM 360 API
Overview
On this page
v1
Overview
API Basics
Field Guide
Parameters
Step-by-Step Tutorials
API Reference
BIM 360 API
The BIM 360 API allows developers to develop apps that integrate with the Autodesk BIM 360 platform to extend its capabilities in the construction ecosystem. Integration use cases include, but not limited to, connecting BIM 360 with Enterprise Resource Planning (ERP) systems for project automation, connecting BIM 360 data with project management solutions, integrating BIM 360 data with cost estimation and financial systems, and many others. Integrations built with the BIM 360 API help designers, engineers, and contractors reduce manual data entry, improve data quality and consistency, and automate construction workflows.
At present, the BIM 360 API offers account-level functionalities that enable developers to work with BIM 360 account administration workflows.
Account-Level Functionality
The account-level functionalities of BIM 360 API allow customers to connect their BIM 360 accounts with external applications in their construction ecosystem. They provide secure access to your BIM 360 accounts, serving as the single point of integration for projects, partner companies, user management, and other account-level information. They enable better-connected workflows across the project lifecycle, shared data across the project team, and construction insight across your project portfolio.

Account Level API & Authentication

Apps & Integrations

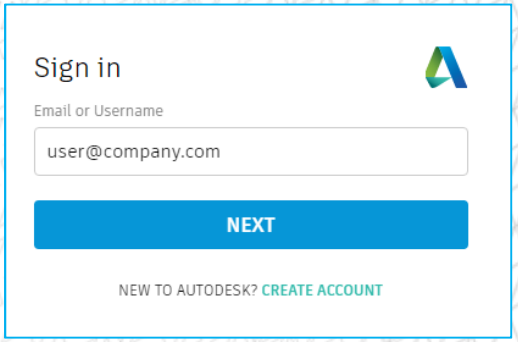



Autodesk, Inc. [US] | https://admin.b360.autodesk.com/...
Autodesk F...
Add Integration
BIM 360 info you need
When accessing BIM 360 APIs from your app, you need to specify the BIM 360 Account ID.
Before proceeding, please make sure to save the BIM360 Account ID info for your records.
BIM 360 Account ID
a4f95080-84fe-4281-8d0a-bd8c885695e0
I have saved the Account ID information se
Fill in App Information
* Forge Client ID
o57oA9BMeJlmmbqxQLo6TvVARurZc9U6
App Logo
Select image to upload
* App Name
TestApp
App Description
my test app
Autodesk, Inc. [US] | https://developer.autodesk.com/myapps/TestAp...
Production
AUTODESK FORGE
INTERNAL VERSION (Production)
TestApp
About this app
(Created 29 May 2017)
Client ID
o57oA9BMeJlmmbqxQLo6TvVARurZc9U6
Client Secret
REGENERATE
App Name
TestApp
Description
TestApp
CallBack URL
http://myurl.test.com

Authentication Methods for Forge

OAuth2

- 2-legged << Account Level API
  - Application context
- 3-legged
  - User context
  - Re-direct to accounts.autodesk.com



https://developer.autodesk.com/en/docs/oauth/v2/overview/

BIM 360 Account Level API

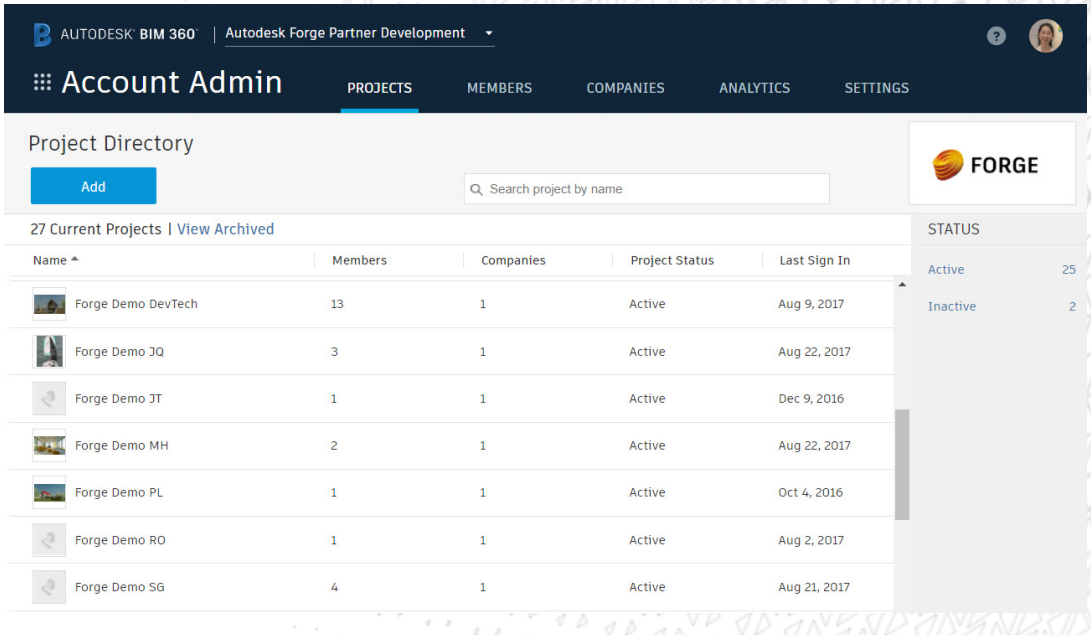
Account Admin Functionality

User Roles:

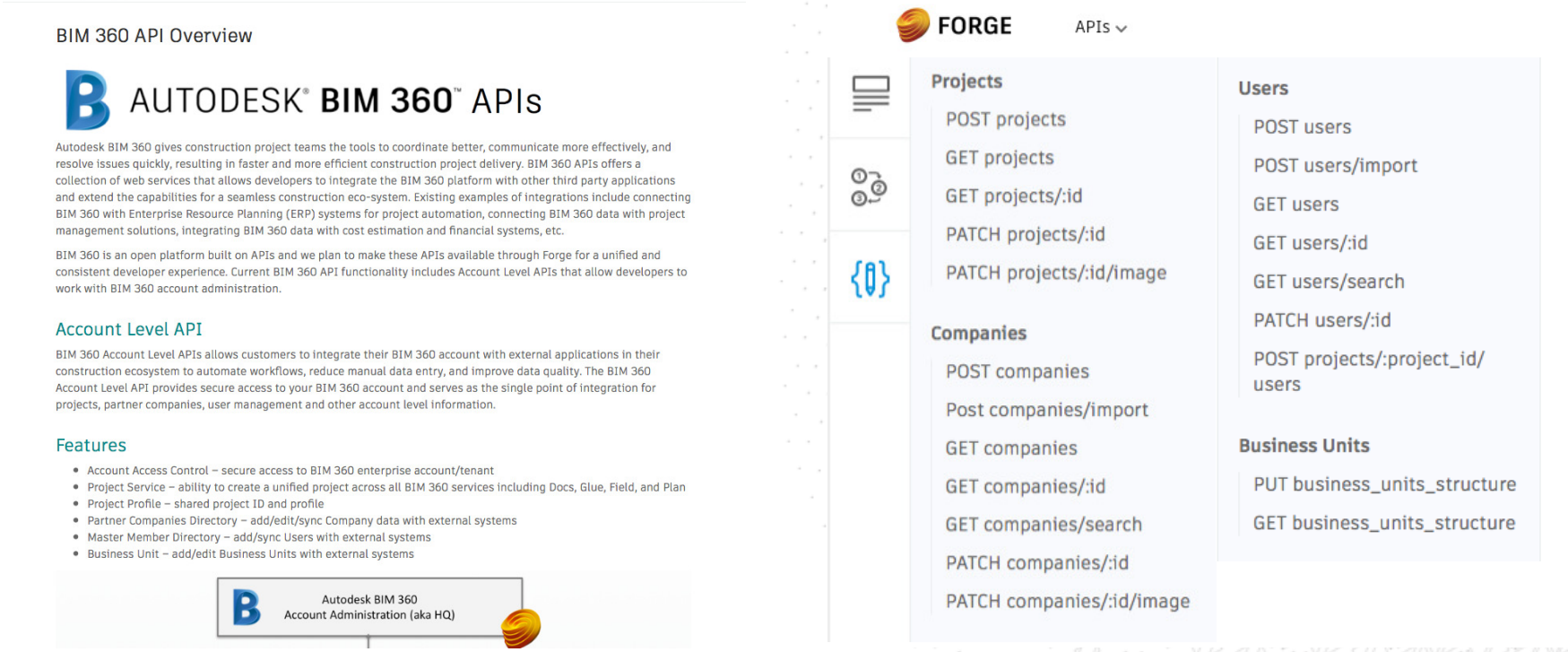
Account Admins, Corporate Developers, and External 3rd Party Developers

Account Admin API Categories:

- Secure Account Access Control
- Project Creation/Access Control
- Project Profile
- Partner Companies Directory
- Master Member Directory
- Business Unit Data



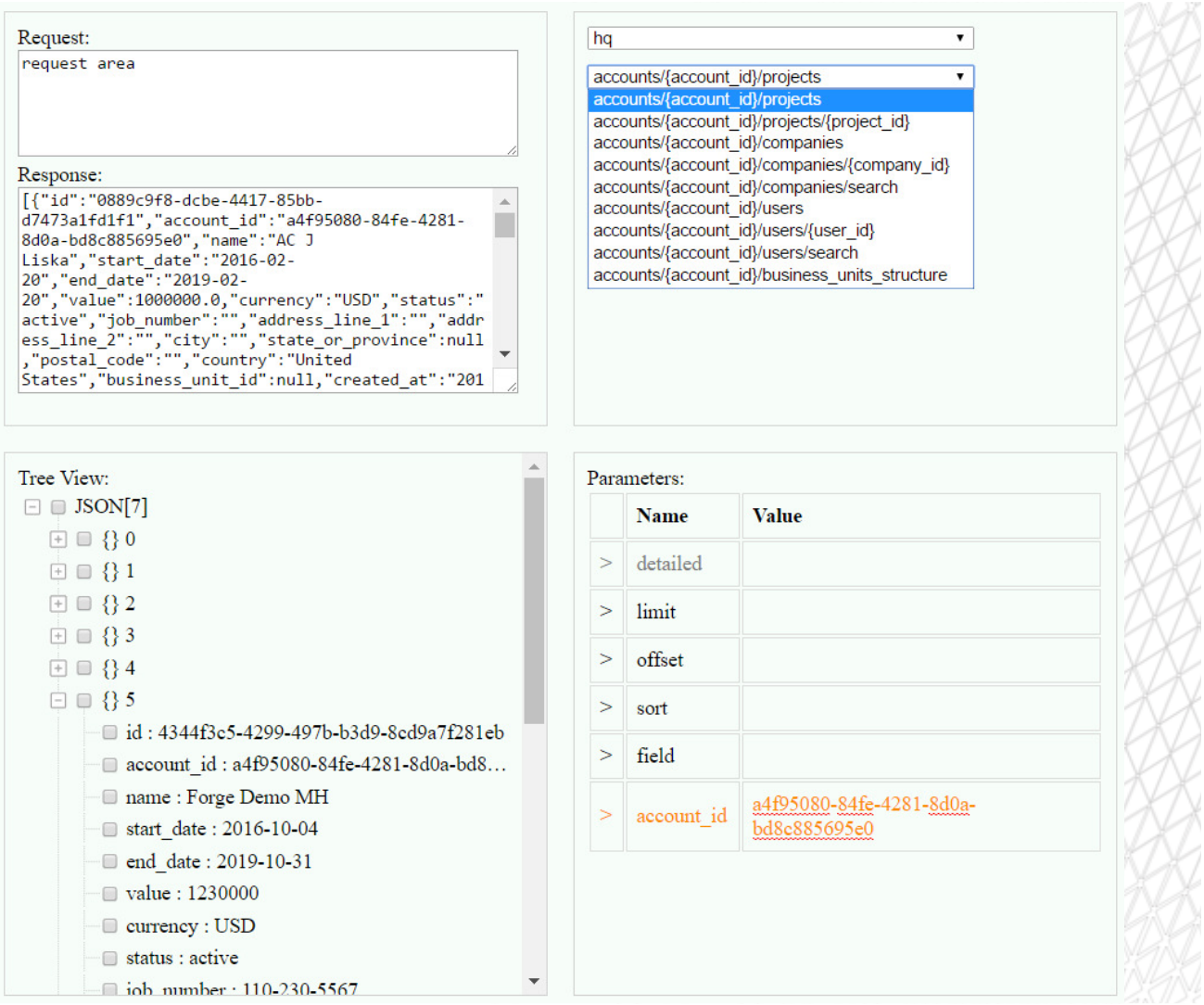
Account Admin Functionality



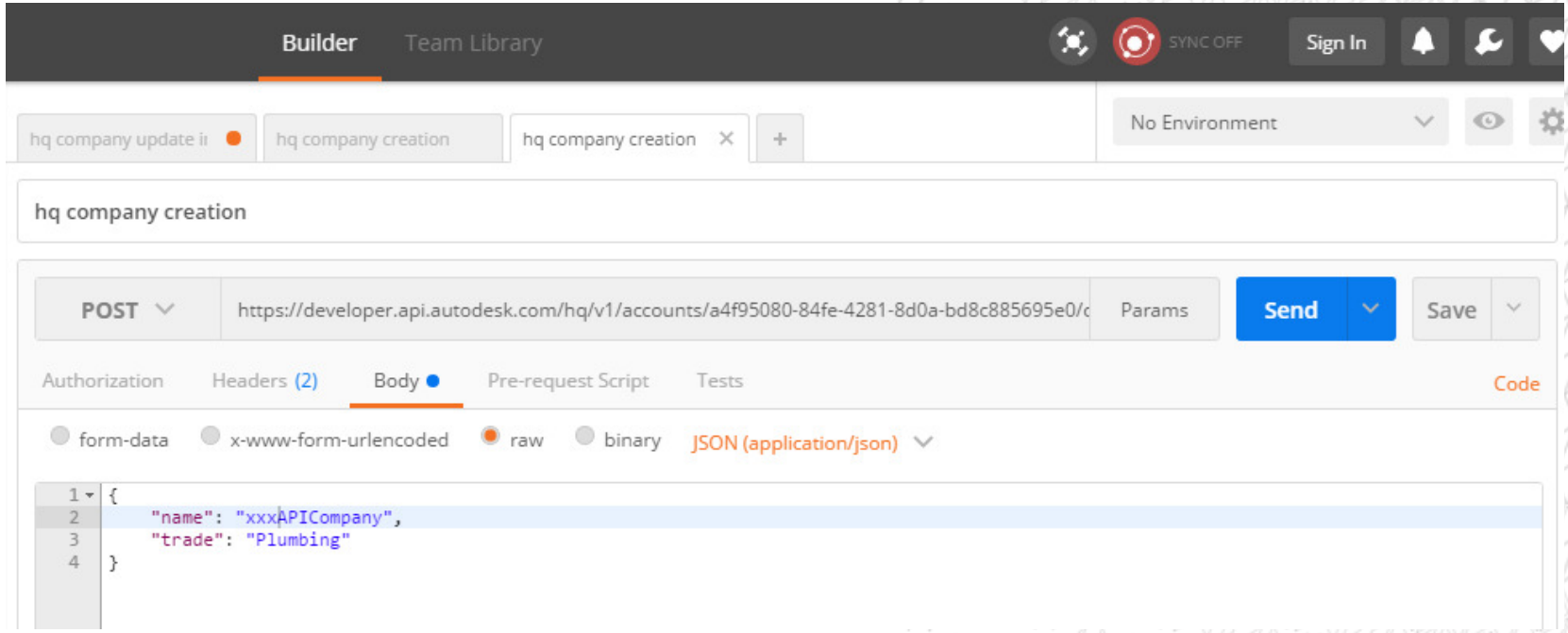
Visit: developer.autodesk.com/en/docs/bim360/v1

HQ API

Grill down



Company Creation Example



Account Level API

- Hubs vs. Accounts
  - hubs_id vs. account_id
  - b.abc12345 (in DM) vs. abc12345 (in Account Admin)
- Project creation
  - accept e-mail notification
  - Project members – future enhancement wish

No “Apps & Integrations”?

Send the requests to: bim360appsactivations@autodesk.com

Information needed:

1. BIM 360 Account ID(*)
2. BIM 360 Account Name
3. BIM 360 Account Admin Email

*) BIM 360 Account Admin >> “Settings” tab

>> “View Account ID” link in the bottom-left of the screen.

Summary

BIM 360 Account Level API

- Scope
- Authentication
- Account Level API

Q&A

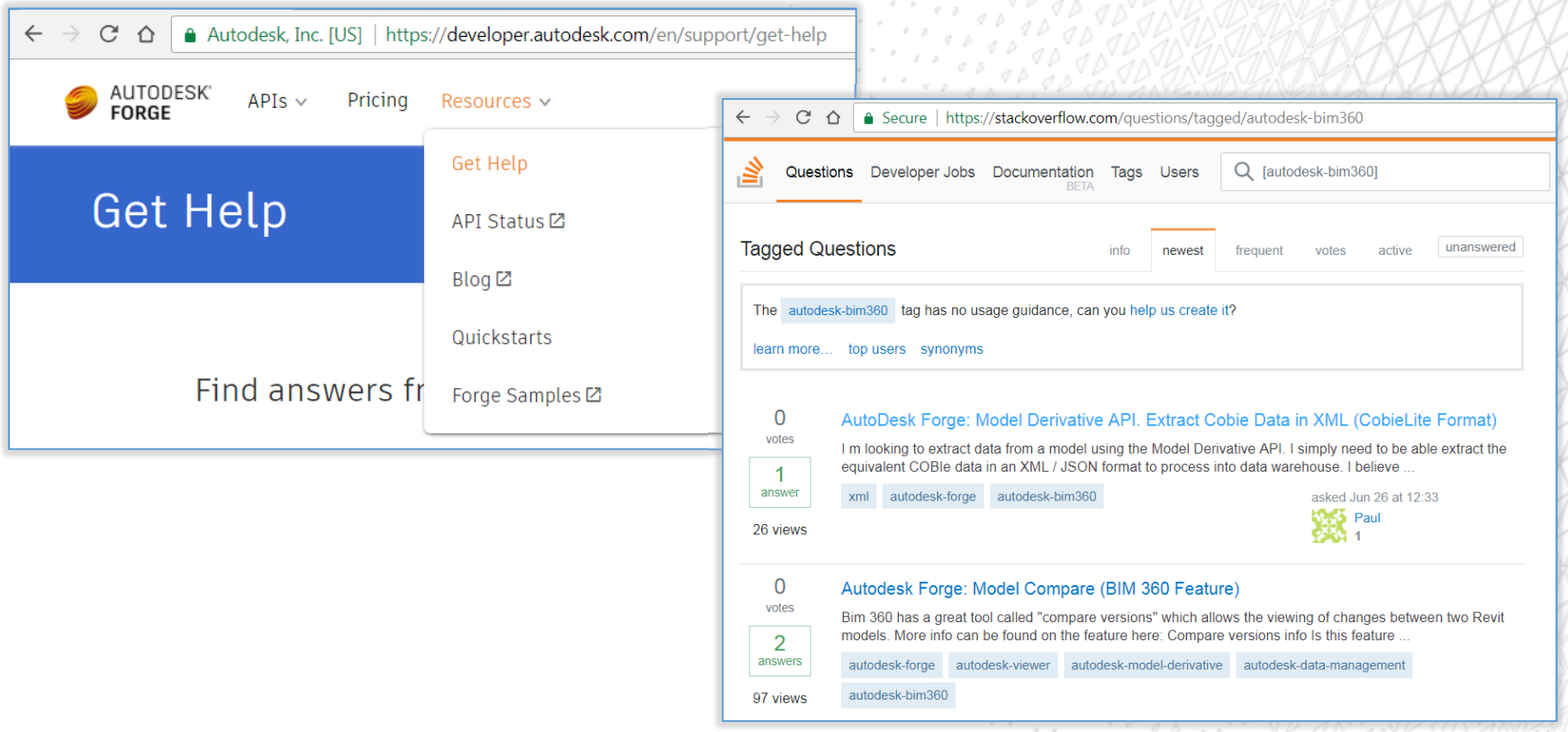
Recording

https://fieldofviewblog.wordpress.com/2017/08/19/materials-from-bim-360-online-hackathon-webinars/

Or search

“YouTube BIM 360 Online Hackathon”

Questions?


Autodesk, Inc. [US] | https://developer.autodesk.com/en/support/get-help
AUTODESK FORGE
APIs
Pricing
Resources
Get Help
Find answers fr
Get Help
API Status
Blog
Quickstarts
Forge Samples
Secure | https://stackoverflow.com/questions/tagged/autodesk-bim360
Questions
Developer Jobs
Documentation BETA
Tags
Users
[autodesk-bim360]
Tagged Questions
info
newest
frequent
votes
active
unanswered
The autodesk-bim360 tag has no usage guidance, can you help us create it?
learn more... top users synonyms
0 votes
1 answer
26 views
AutoDesk Forge: Model Derivative API. Extract Cobie Data in XML (CobieLite Format)
I m looking to extract data from a model using the Model Derivative API. I simply need to be able extract the equivalent COBIe data in an XML / JSON format to process into data warehouse. I believe ...
xml
autodesk-forge
autodesk-bim360
asked Jun 26 at 12:33
Paul
1
0 votes
2 answers
97 views
Autodesk Forge: Model Compare (BIM 360 Feature)
Bim 360 has a great tool called "compare versions" which allows the viewing of changes between two Revit models. More info can be found on the feature here: Compare versions info Is this feature ...
autodesk-forge
autodesk-viewer
autodesk-model-derivative
autodesk-data-management
autodesk-bim360

Contact for further inquiry

BIM 360 Hackathon	bim360hackathon@autodesk.com
Business	tom.culotta@autodesk.com
API product manager	tomer.galon@autodesk.com
FPD AEC tech lead	mikako.harada@autodesk.com

Autodesk is a registered trademark of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2017 Autodesk. All rights reserved.