



BIM 360 Assets API

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CS469611

BIM 360 API アップデートと今後の予定

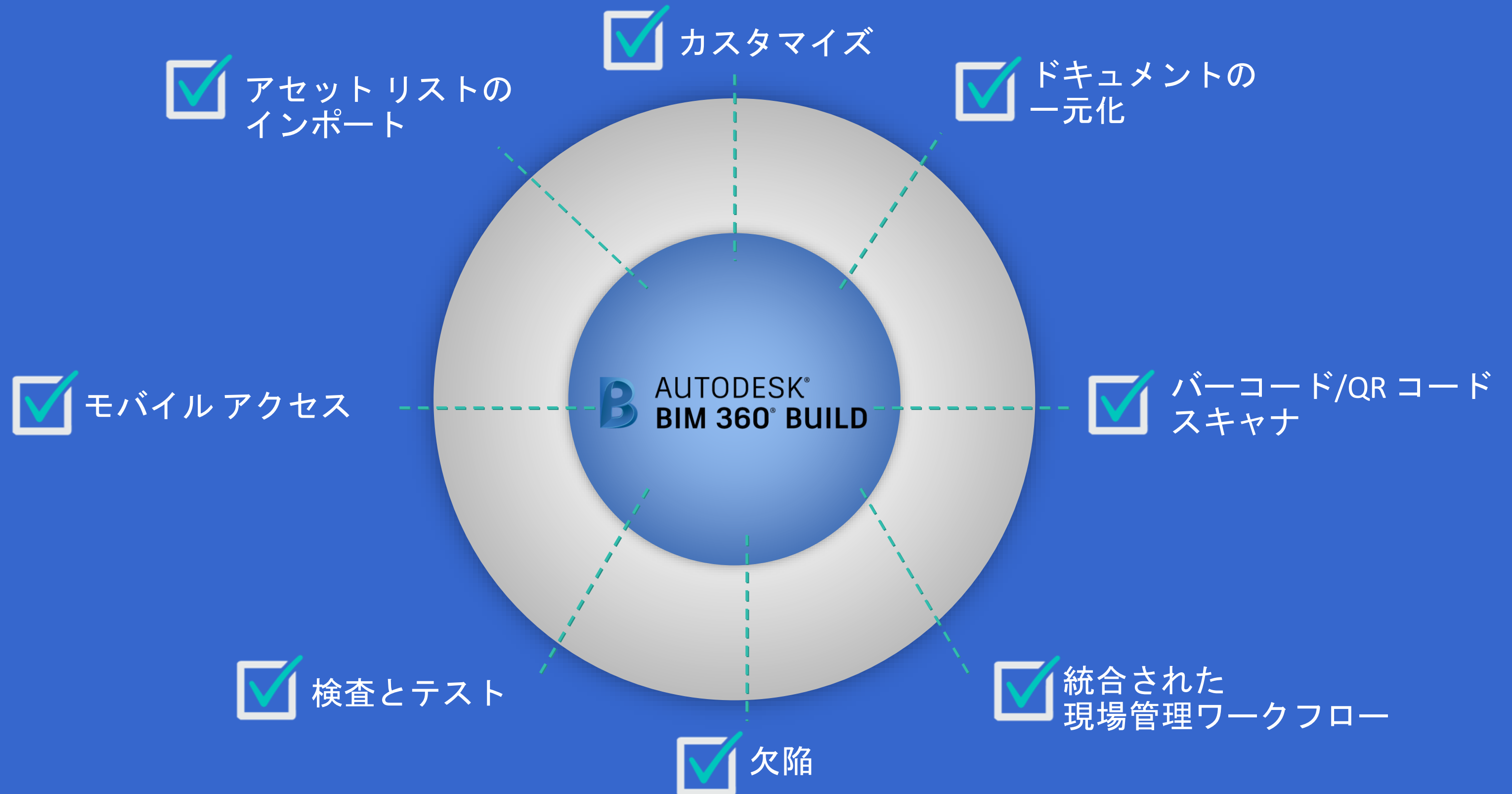


Mikako Harada

Senior Manager, AEC
Developer Technical Services
Autodesk



BIM 360 Assets モジュール



アセット トラッキングのワークフロー



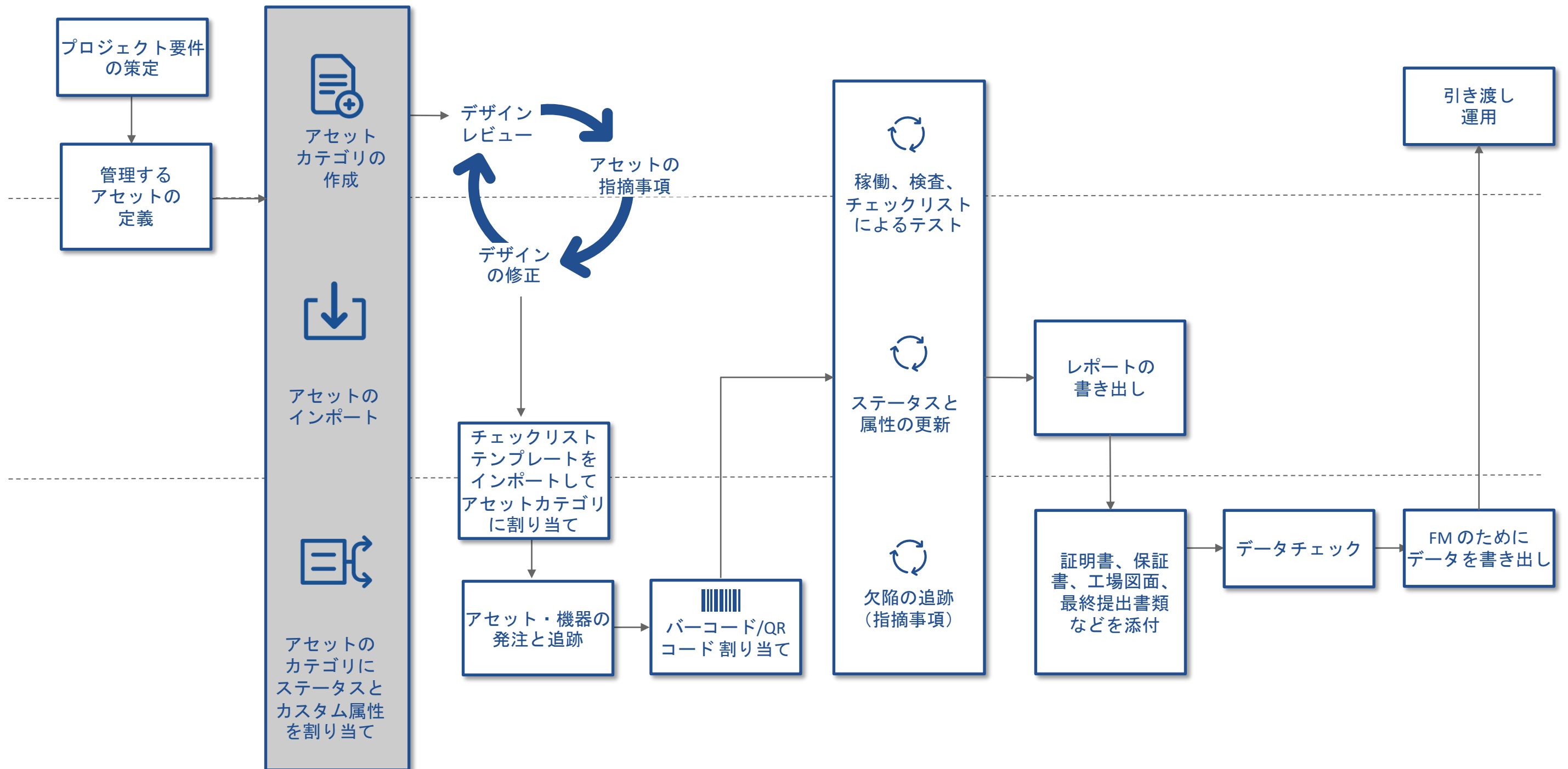
オーナー/
代理エージェント



設計者/
設計チーム



ゼネコン



アセットの設定 - ステータス、属性、カテゴリの定義

The screenshot displays the Autodesk BIM 360 Project Admin interface, specifically the 'Status Set' configuration page. The interface is layered to show the navigation path from the main dashboard to the specific settings page.

Top Navigation Bar: AUTODESK BIM 360 | Autodesk Forge Partner Development > Forge Demo R0 2021

Project Admin Header: Project Admin | メンバー | 会社 | サービス | プロファイル

Left Sidebar (Assets):

- 概要
- 指摘事項
- 通知
- 位置
- Document Management
- Design Collaboration
- Field Management
- Assets (selected)

Main Content Area:

Tabs: 権限 | カテゴリ | カスタム属性 | ステータス セット | 読み込み/書き出し

Buttons: 新しいステータス セットを作成

名前	説明
▼ Default	
Specified	Specified
Ordered	Ordered
Delivered	Delivered

アセット設定の書き出しと読み込み

AUTODESK® BIM 360® | Autodesk Forge Partner Development > Forge Demo RO 2021

Forge Demo RO 2021 - プロジェクトの Assets 構成が正常に書き出されました

	A	B	C	D	E	F	G	H	I
1	Status Set	Status	Description	Color					
2	Default	Specified	Specified	blue					
3	Default	Ordered	Ordered	yellow					
4	Default	Delivered	Delivered	red					
5	Default	Installed	Installed	green					
6	Default	Pre-Start-Up	Pre-Start-Up	red					
7	Default	Start-Up	Start-Up	gray-dark					
8	Default	Pre-Functional Performance Tests	Pre-Functional Performance Tests	purple					
9	Default	Functional Performance Tests	Functional Performance Tests	yellow					
10	Default	Acceptance	Acceptance	red					
11	Default	Post-Acceptance	Post-Acceptance	blue					
12									
13									

Categories | **Status Sets and Statuses** | Custom Attributes

追加 [Autodesk BIM 360](#) 電子メールを確実に受信するためのアドレスブック。
詳細, アクセス [Autodesk BIM 360 Help](#).

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アセットリストのインポート

AUTODESK BIM 360 | Autodesk Forge Partner Development > Forge Demo R0 2021

Assets を読み込む

Name	Category	Description	Location	Status	Barcode
Required	Required	Optional	Optional	Required	Optional
COBie-standard field (Component.Name) / (AssetIdentifier)	COBie-standard field (Component.TypeName) Category structure will be automatically generated if it does not exist in the project Separate Category levels with > Format example: Mechanical Mechanical > Air Handling Units (AHU's) Mechanical > Air Handling Units (AHU's) > Air Cooled Chiller	COBie-standard field (Component.Description)	COBie-standard field (Component.Space) If filled in, must match location on project. Invalid inputs will be ignored Separate levels with > Format example: Building Building > Floor Building > Floor > Room	Must exactly match an equipment status on the project. TIP - Set up your equipment statuses first, before you import. Default Options: Specified Ordered Delivered Installed Pre-Start-up Start-up Pre-Functional Performance Tests Functional Performance Tests Acceptance Post-Acceptance	COBie-standard field (Component.BarCode)
REMINDER: Don't delete or rename columns - the spreadsheet will not import. It is OK to delete the rows below, including the sample data.					
Name	Category	Description	Location	Status	Barcode
AHU-999	Mechanical > Air Handling Units (AHU's) > Air Cooled Chiller	Performance Climate Changer Air Handler Floor 1		Installed	
AHU-998	Mechanical > Air Handling Units (AHU's) > Air Cooled Chiller	Performance Climate Changer Air Handler Floor 2		Functional Performance Tests	
AHU-997	Mechanical > Air Handling Units (AHU's) > Air Cooled Chiller	Performance Climate Changer Air Handler Floor 3		Acceptance	
VAV-996	Pumps > Primary Water Pump	Base Mounted		Installed	
VAV-995	Pumps > Primary Water Pump	Base Mounted		Functional Performance Tests	

フィルタ

カテゴリ

Assets

カテゴリを検索

Specified DuctTerminal-304 Air Terminals 600x600 - 200 Neck Ryuji Ogasawara 本日 本日

ドキュメントの一元管理

The screenshot displays the Autodesk BIM 360 Assets web application. The main interface is for managing assets, with a sidebar on the left for filtering and a central area for asset lists. A modal window titled "ドキュメントへのリンクを追加" (Add link to document) is open in the foreground. This modal allows users to select a document from a hierarchical tree structure. The tree shows categories like "設計図" (Drawings), "プロジェクトファイル" (Project files), and "設備" (Equipment). Under "設備", there is a folder "ダクトシステム" (Duct system), which contains a file "天井用制気口カタログ.pdf" (Ceiling air control catalog.pdf) that is currently selected. At the bottom of the modal, there is a status bar indicating "1 ドキュメントが選択されました" (1 document selected), along with buttons for "コンピュータからアップロード" (Upload from computer), "キャンセル" (Cancel), and "追加" (Add).

Assets

検索

フィルタ

カテゴリ

カテゴリを検索

すべてのカテゴリ

Air Terminals

その他のフィルタ

非表示

ステータス

Specified

Specified

Specified

Specified

Specified

Specified

Specified

Specified

Specified

Specified

場所

場所を選択

☐ 場所の下位を含める

Asset

SPECIFIED

DuctTerminal-301

詳細 指摘事項 チェックリスト 添付ファイル

参照 ファイルを添付

ドキュメントへのリンクを追加

- 設計図
- プロジェクトファイル
 - Shared
 - 設備
 - アセット管理
 - 空調設備
 - ダクトシステム
 - 天井用制気口カタログ.pdf
 - Consumed

1 ドキュメントが選択されました

コンピュータからアップロード

キャンセル

追加

バーコード/QRコードスキャナ

AUTODESK® BIM 360™ | Autodesk Forge Partner Development > Forge Demo RO 2021 ▾

AssetsASSETS

🔍 検索

フィルタ ✕
カテゴリ 非表示
 カテゴリを検索
すべてのカテゴリ
Air Terminals
その他のフィルタ 非表示
ステータス
選択中... ▾
場所
場所を選択 ▾
☐ 場所の下位を含める

ステータス	Asset ID	カテゴリ
Specified	DuctTerminal-304	Air Terminals
Specified	DuctTerminal-305	Air Terminals
Specified	DuctTerminal-306	Air Terminals
Specified	DuctTerminal-307	Air Terminals
Specified	DuctTerminal-308	Air Terminals
Specified	DuctTerminal-309	Air Terminals
Specified	DuctTerminal-301	Air Terminals
Specified	DuctTerminal-302	Air Terminals

AssetSPECIFIED ✕

DuctTerminal-301

詳細指摘事項チェックリスト添付ファイル

Asset IDDuctTerminal-301 ✎

カテゴリAir Terminals ✎

説明600x600 - 250 Neck ✎

バーコード番号a4d2a650-712c-4311-9076-3ed139255683-00082f45 ✎

場所未指定 ✎

アセットを削除

Field Management ワークフローとの統合 – 問題管理

The screenshot displays the Autodesk BIM 360 web interface. The main header shows the project path: AUTODESK® BIM 360® | Autodesk Forge Partner Development > Forge Demo RO 2021. Below this, the 'Document Management' section is visible, featuring a search bar and a table of issues.

The '指摘事項' (Issue) modal is open, showing details for issue #1. The modal has a yellow header with the text '指摘事項 #1' and a '未完了' (Not Completed) status. The main content area is divided into two columns for editing fields.

ID	タイプ	サブタイプ	タイトル
1	Commissioning	Commissioning	結露防止

1 ~ 1/1 を表示しています

指摘事項 #1

詳細 | 添付ファイル | アクティビティ

結露防止カバーの取り付け

作成者 Ryuji Ogasawara 作成日時 2021年1月28日

割り当て先	タイプ
未指定	Commissioning
期日	担当者
未指定	Ryuji Ogasawara
場所	根本原因
未指定	Installation
場所の詳細	
未指定	

リンクドキュメント

未指定

Field Management ワークフローとの統合 – 検査・テスト

The screenshot displays the Autodesk BIM 360 Assets interface. The main window shows a list of assets with columns for Status, Asset ID, and Category. A sidebar on the left contains filters for Category, Status, and Location. A detailed view of the asset 'DuctTerminal-301' is shown on the right, including a checklist and a reference link.

Assets List:

ステータス	Asset ID	カテゴリ
Specified	DuctTerminal-304	Air Terminals
Specified	DuctTerminal-305	Air Terminals
Specified	DuctTerminal-306	Air Terminals
Specified	DuctTerminal-307	Air Terminals
Specified	DuctTerminal-308	Air Terminals
Specified	DuctTerminal-309	Air Terminals
Specified	DuctTerminal-301	Air Terminals
Specified	DuctTerminal-302	Air Terminals

Asset Detail: DuctTerminal-301

Asset: DuctTerminal-301 (SPECIFIED)

Checklist: 未着手 #1 試運転テスト

Reference Link: 参照リンク

Buttons: 新しいチェックリストを追加, 参照項目を追加

Assets API

プライベートベータ

- アセットの取得
- カスタム属性
- カテゴリ
- ステータス

パブリックベータ（近日中）

- アセットの作成
- カスタム属性、カテゴリ、ステータスの作成
- 一括インポート*1

優先順位のフィードバックを!

*1) prioritize based on feedbacks

Project Admin

Overview Issues Notifications Locations Document Management Assets

Permissions Categories Custom Attributes Status Sets

Name	Active / Inactive	Status Set	Attributes
All Categories		Default	-
Air Handling Units (AHU's)	Active	Default	-

Assets

Asset Tree

- All Categories
- Air Handling Units (AHU's)
- Electrical Equipment
- Lighting Devices
- Lighting Fixtures
- Mechanical Equipment
- Plumbing Fixtures
- Pumps

Asset ID	Category
621642	Lighting Fixtur...
621643	Lighting Fixtur...
621644	Lighting Fixtur...
694117	Lighting Fixtur...
694251	Lighting Fixtur...
694268	Lighting Fixtur...

Asset 621642

DETAILS ISSUES CHECKLISTS ATTACHMENTS

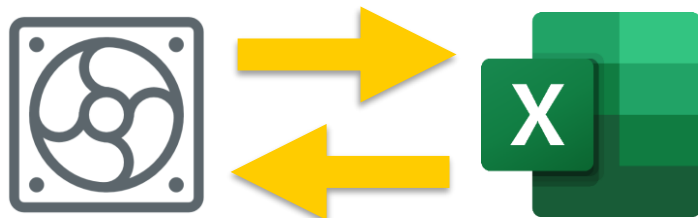
Asset ID	621642
Category	Lighting Fixtures > Recessed Parabolic Light
Description	2'x2'(2 Lamp) - 277V
Barcode	Unspecified
Location	Tower 2 > 2 Floor > Rm 212
Serial number	Unspecified
Submittal	Unspecified
Purchase order	Unspecified
Purchase date	Unspecified

Excel エクスポート/インポート

機能 : BIM 360 Assets モジュールのアセットデータを Forge アプリの画面に表示し、さらに Excel シートにエクスポートします。Excel で編集したデータを再度、アセットにインポートします。

このサンプルは Assets モジュールを使用した基本的な読み取り/書き込みアクセスを示すためのものです。

ソースコード : GitHub サンプル (予定)
作者 : Xiaodong Liang, Autodesk



BIM 360 Assets

BIM 360 Asset Data Export & Import

localhost:3000

Apps

BIM360

MC API

China

AU2018

aws

Live Demos

Video Demos

quick-demos

DevDays 2016

3DWebFest

Autodesk

Prototype

Customer

AUTODESK FORGE

BIM 360 Asset Data Exchange

Enable n

BIM360 Project List

Autodesk Forge Partner Development

BIM360 AU Asset Test Project(Zhong)

Daimler POC Project

Delete Test Sample 4 by Zhong

Flow Test

Forge Concert Hall

Forge Demo EK

Forge Demo ZW DA

Forge Demo Zhong

Forge Infraworks

Pacific Center Hospital v2

Xiaodong Tes & Patch

Xiaodong-test-MC

Zhong Revit File Upgrader Project

xiaodong-test-asset

FPD EMEA

ASSETS

CATEGORIES

CUSTOM ATTRIBUTES

STATUSES

clientAssetId	version	description	isActive	category	status	barcode	serialNumber	installationDate	installedBy	warrantyStartDate	warrantyE
AHU-999	3937	Performance Climate Changer Air Handler Floor 1	true	Air Cooled Chiller	Installed	barcode-12345	SN-7890456	2020-09-02	company-B	2020-09-09	2021-0
AHU-998	3938	Performance Climate Changer Air Handler Floor 2	true	Air Cooled Chiller	Functional Performance Tests	barcode-45789	SN-7890456	2020-09-02	company-C	2020-09-09	2021-0
AHU-997	3939	Performance Climate Changer Air Handler Floor 3	true	Air Cooled Chiller	Acceptance	barcode-34896	SN-674456	2020-09-02	company-R	2020-09-09	2021-0

[illegible]

Assets

ASSETS

Export

Import

Asset Tree		Details												
All Categories		Asset ID	Category	Location	Barcode	Created by	Spec section	Purchase order	Purchase date	Manufacturer	Model	vendor	count	maintain engine
Air Handling Units (AHU's)														
Air Terminal		AHU-999	Air Handling U...	CH/PH Stock 1 [...]	barcode-12345	Xiaodong Liang	mechanical	P03678056	Sep 9	Schneider Elect...	Basic-MEP	Daikin	20	David,M
Electrical		AHU-998	Air Handling U...	... > Stock 3 [57...	barcode-45789	Xiaodong Liang	electrical	P03678056	Sep 9	ABB Electric	Basic-MEP	Daikin	20	David,M
Mechanical														
Pumps		AHU-997	Air Handling U...	... > Workshop 4...	barcode-34896	Xiaodong Liang	pipe	P03678056	Sep 9	IBM	Basic-MEP	Daikin	20	David,M
xiaodongtest		VAV-996	Pumps > Prima...	... > Leader 8 [5...	barcode-33556	Xiaodong Liang	duct	P03678056	Sep 9	Intel	Basic-MEP	Daikin	20	David,M
		VAV-995	Pumps > Prima...	CH/PH I 2 [5737...	barcode-22390	Xiaodong Liang	internet	P03678056	Sep 9	JE	Basic-MEP	Daikin	20	David,M
		AHU-767	Air Handling U...	CH/PH Stock 1 [...]	barcode-999	Devtech China	floor5	P0888888	Sep 9	ABB	Mechanical	ABB	30	Michael
		PIPE-111	Air Handling U...	... > Stock 3 [57...	-	Devtech China	-	-	-	-	-	-	-	-
		PIPE-222	Air Handling U...	CH/PH Stock 1 [...]	-	Devtech China	-	-	-	-	-	-	-	Peter,Ja
		MECH-876	Pumps > Prima...	... > Leader 8 [5...	-	Devtech China	-	-	-	-	-	-	-	-
		DUCT-995	Pumps > Prima...	... > Workshop 4...	-	Devtech China	-	-	-	-	-	-	-	-

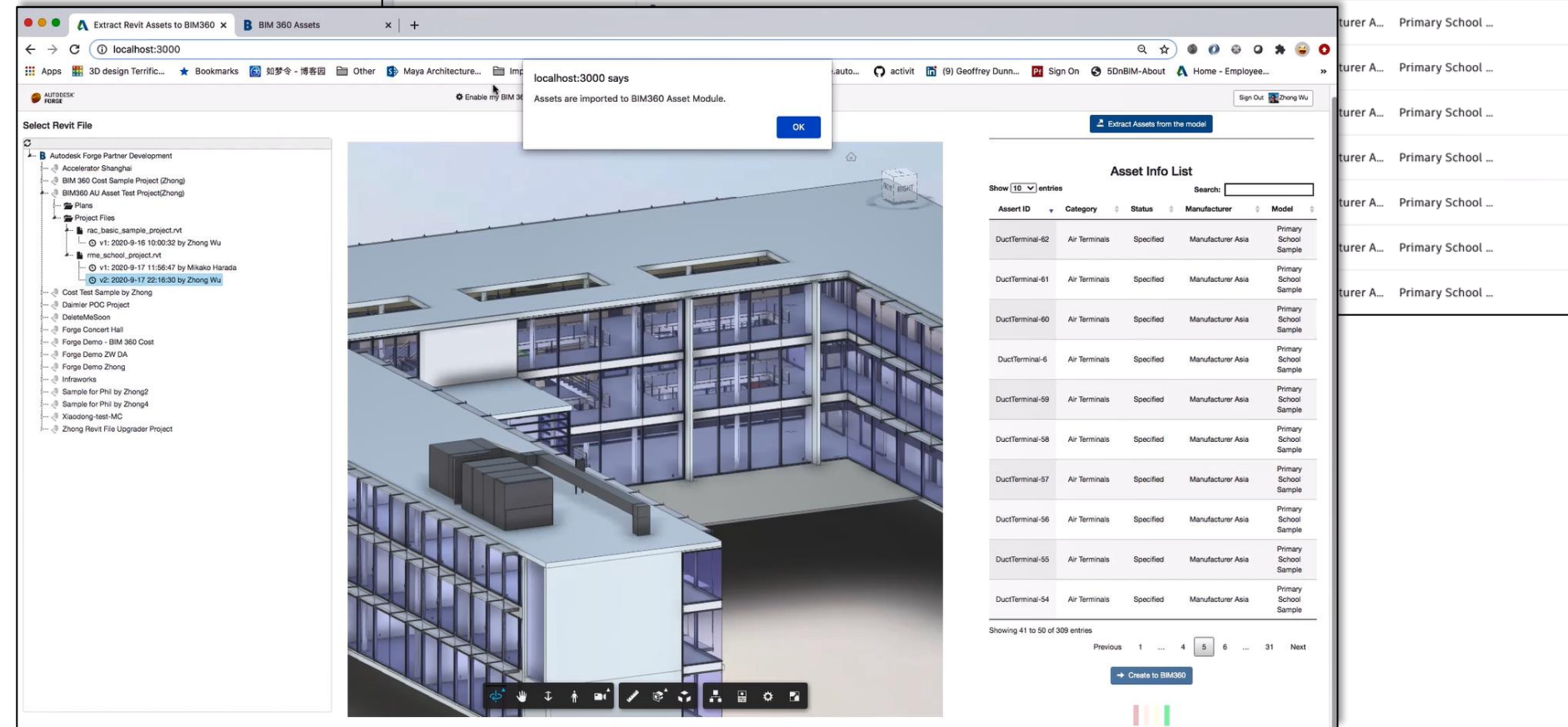
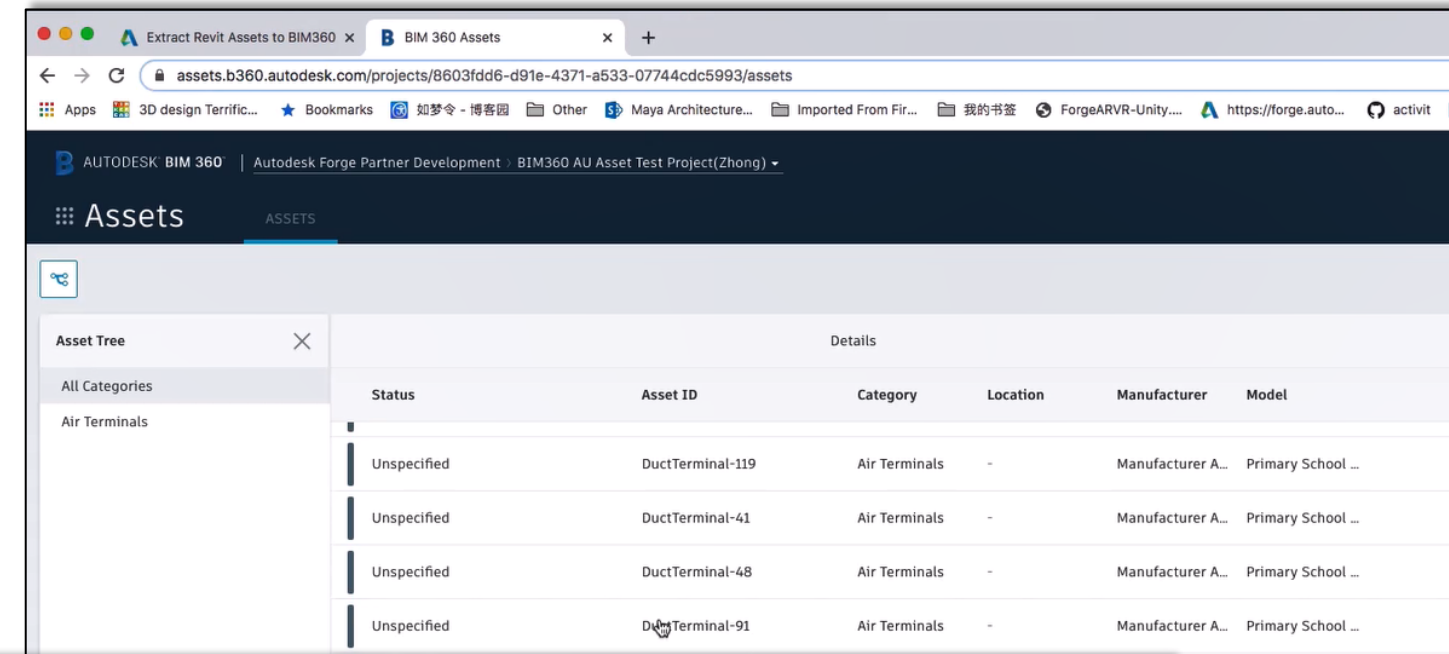
設計モデルからアセット データ を設定

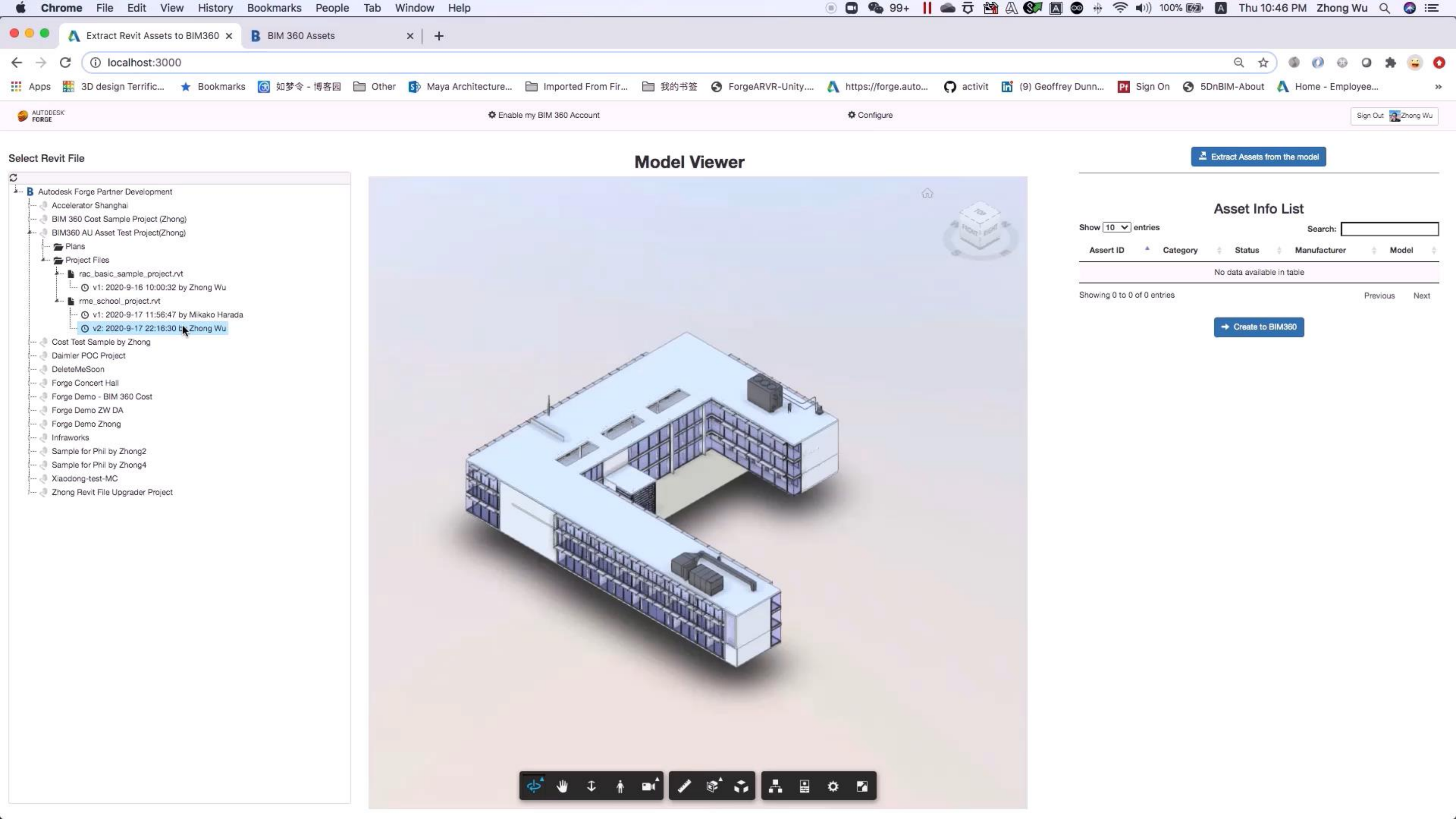
機能：Design Automation for Revit を使用して、BIM 360 Docs に保存されたモデルからアセットを抽出し、Assets モジュールにインポートします。オプションで、インポートする前にアセットをフィルタリング/検証します。

※ Revit 要素の UniqueID をカスタム属性として保存し、アセットと Revit の要素との関連付けを維持します。

ソースコード：GitHub サンプル (予定)

作者：Zhong Wu, Autodesk





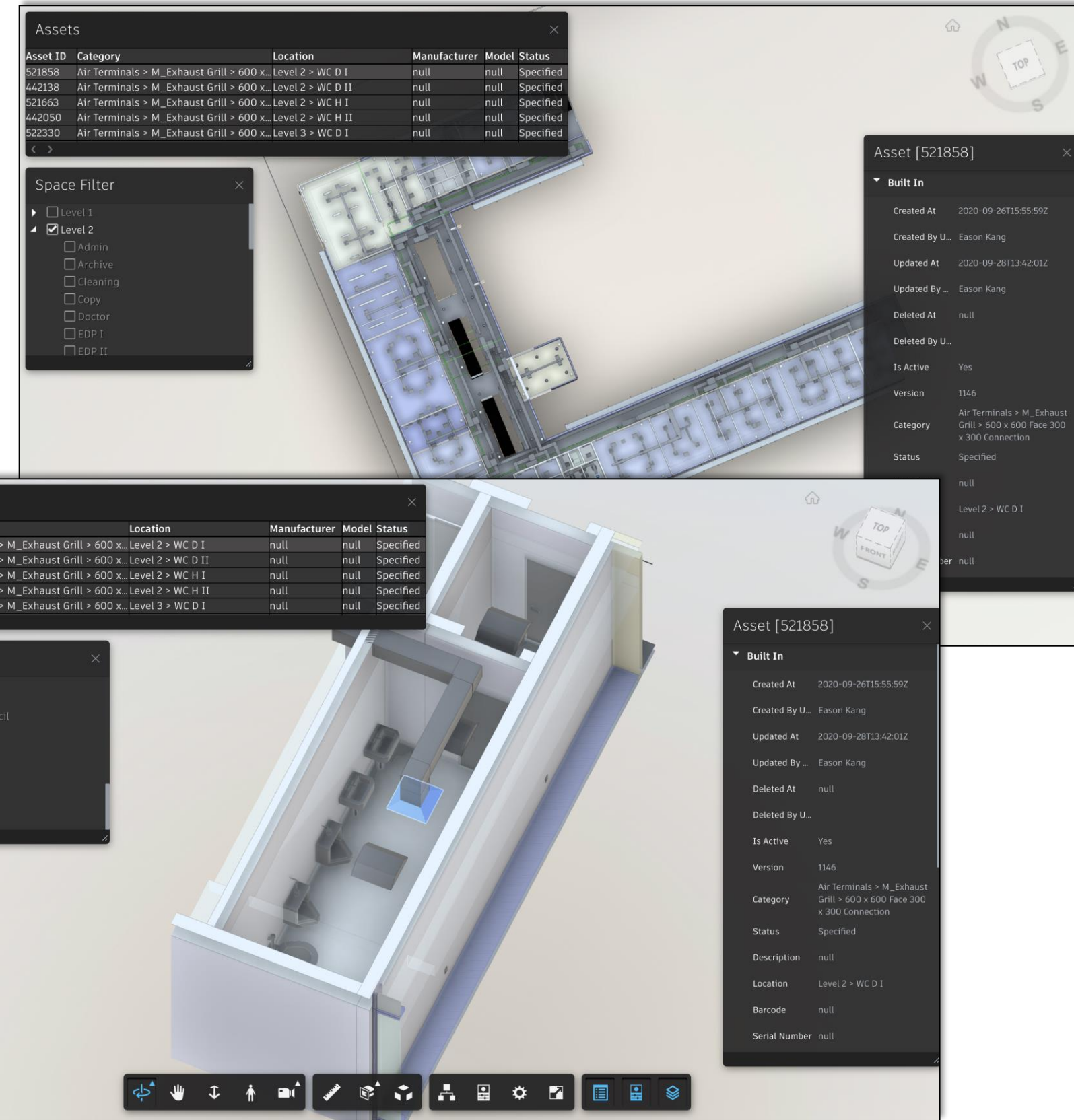
Viewerでアセットを表示

機能：モデルビューアでアセットデータを表示します。レベルと部屋でアセットをフィルタリングできます。

※ Revit 要素の Unique IDをカスタム属性として保存し、アセットとRevit の要素との関連付けを維持します。

ソースコード： GitHub サンプル (予定)

作者： Eason Kang, Autodesk



Asset Tree

All Categories

Air Terminals

Electrical Equipment

Electrical Fixtures

Lighting Devices

Lighting Fixtures

Mechanical Equipment

Asset ID	Category	Location
521858	Air Terminals > M_Exhaust Grill > 600 x 600 Face 300 x 30...	Level 2 > WC D I
442138	Air Terminals > M_Exhaust Grill > 600 x 600 Face 300 x 30...	Level 2 > WC D II
521663	Air Terminals > M_Exhaust Grill > 600 x 600 Face 300 x 30...	Level 2 > WC H I
442050	Air Terminals > M_Exhaust Grill > 600 x 600 Face 300 x 30...	Level 2 > WC H II
522330	Air Terminals > M_Exhaust Grill > 600 x 600 Face 300 x 30...	Level 3 > WC D I
522312	Air Terminals > M_Exhaust Grill > 600 x 600 Face 300 x 30...	Level 3 > WC H I
431155	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > Admin
430655	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > Archive
431276	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > Cleaning
430663	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > Copy
431304	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > EDP I
431365	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > EDP I
430875	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > EDP II
430885	Air Terminals > M_Return Diffuser > 600 x 600 Face 300 x ...	Level 2 > EDP II

DETAILS

ISSUES

CHECKLISTS

ATTACHMENTS

Asset ID	521858
Category	Air Terminals > ... > 600 x 600 Face 300 x 300 Connection
Description	Unspecified
Barcode	Unspecified
Location	Level 2 > WC D I
Serial number	Unspecified
Submittal	Unspecified
Purchase order	Unspecified
Purchase date	Unspecified
Installation date	Unspecified
Warranty start date	Unspecified
Warranty end date	Unspecified
Expected life (years)	Unspecified
Installed by	Unspecified
Spec section	Unspecified
Manufacturer	Unspecified
Model	Unspecified
External Id	f056ea9d-8fba-434e-80ce-46b4df0ea740-0007f682

Assets API デベロッパ リソース



- ドキュメンテーション
- GitHubのコードサンプル
- Postman コレクション

AUTODESK FORGE Success Stories Solutions ▾ Getting Started Documentation Community ▾ Support ▾ Pricing

▼ API Reference

▼ HTTP Specification

- > Admin
- ▼ Assets
 - ▼ Assets
 - GET assets**
 - POST assets:batch-get
 - ▼ Asset-Statuses
 - GET asset-statuses
 - POST asset-statuses:batch-get
 - ▼ Categories
 - GET categories
 - POST categories:batch-get
 - ▼ Custom-Attributes
 - GET custom-attributes
 - POST custom-attributes:batch-get
 - GET categories/:categoryId/custom-attributes
 - ▼ Status-Step-Sets
 - GET status-step-sets
 - GET categories/:categoryId/status-step-set

Get all Assets paginated

GET assets

Get all Assets paginated

Resource Information

Method and URI	GET https://developer.api.autodesk.com/bim360/assets/v1/project/
Authentication Context	user context required
Required OAuth Scopes	data:read
Data Format	JSON

Request

Headers



BIM 360 Relationships API

小笠原 龍司
オートデスク 株式会社

Autodesk University 2020

CS469611

BIM 360 API アップデートと今後の予定



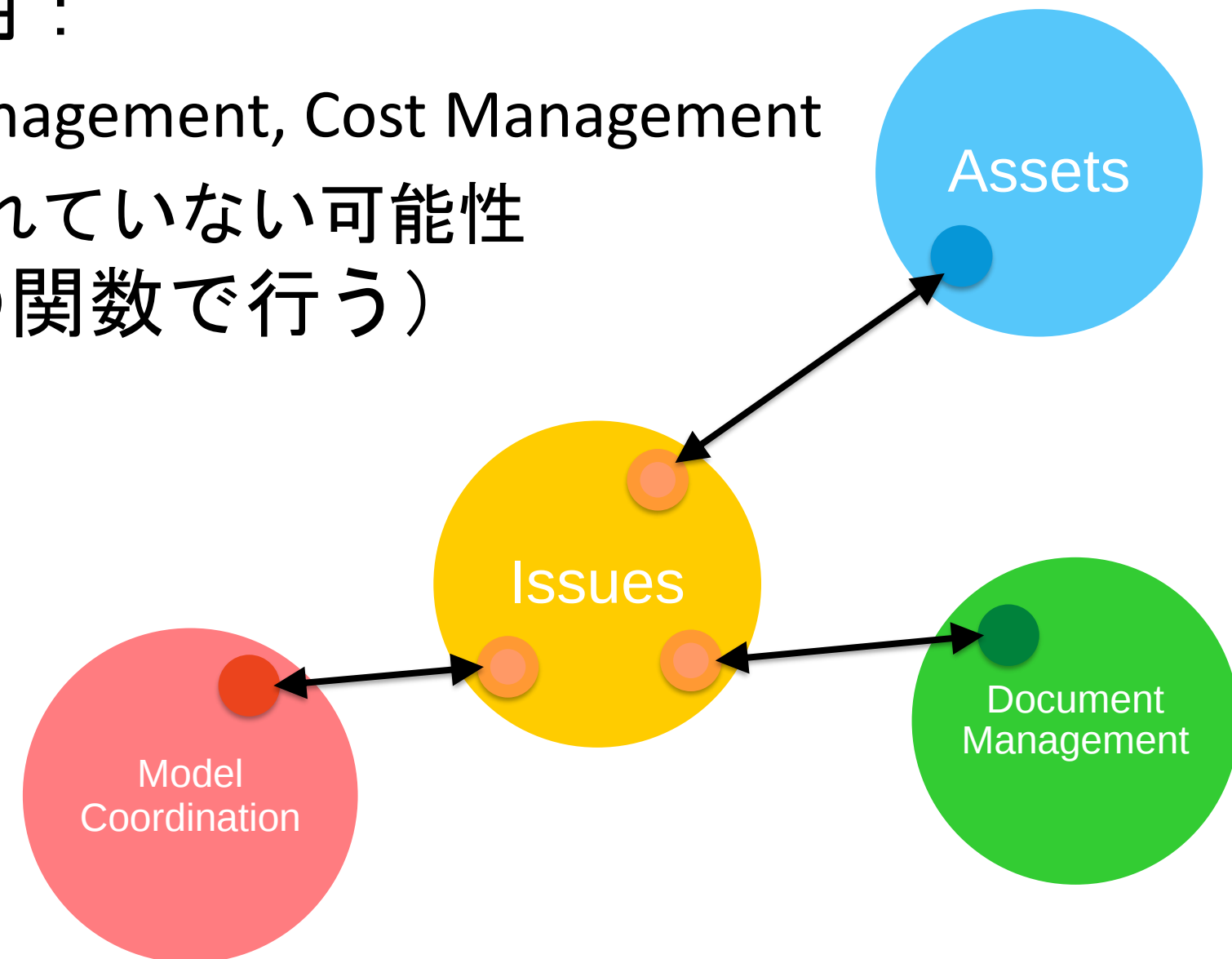
Mikako Harada

Senior Manager, AEC
Developer Technical Services
Autodesk

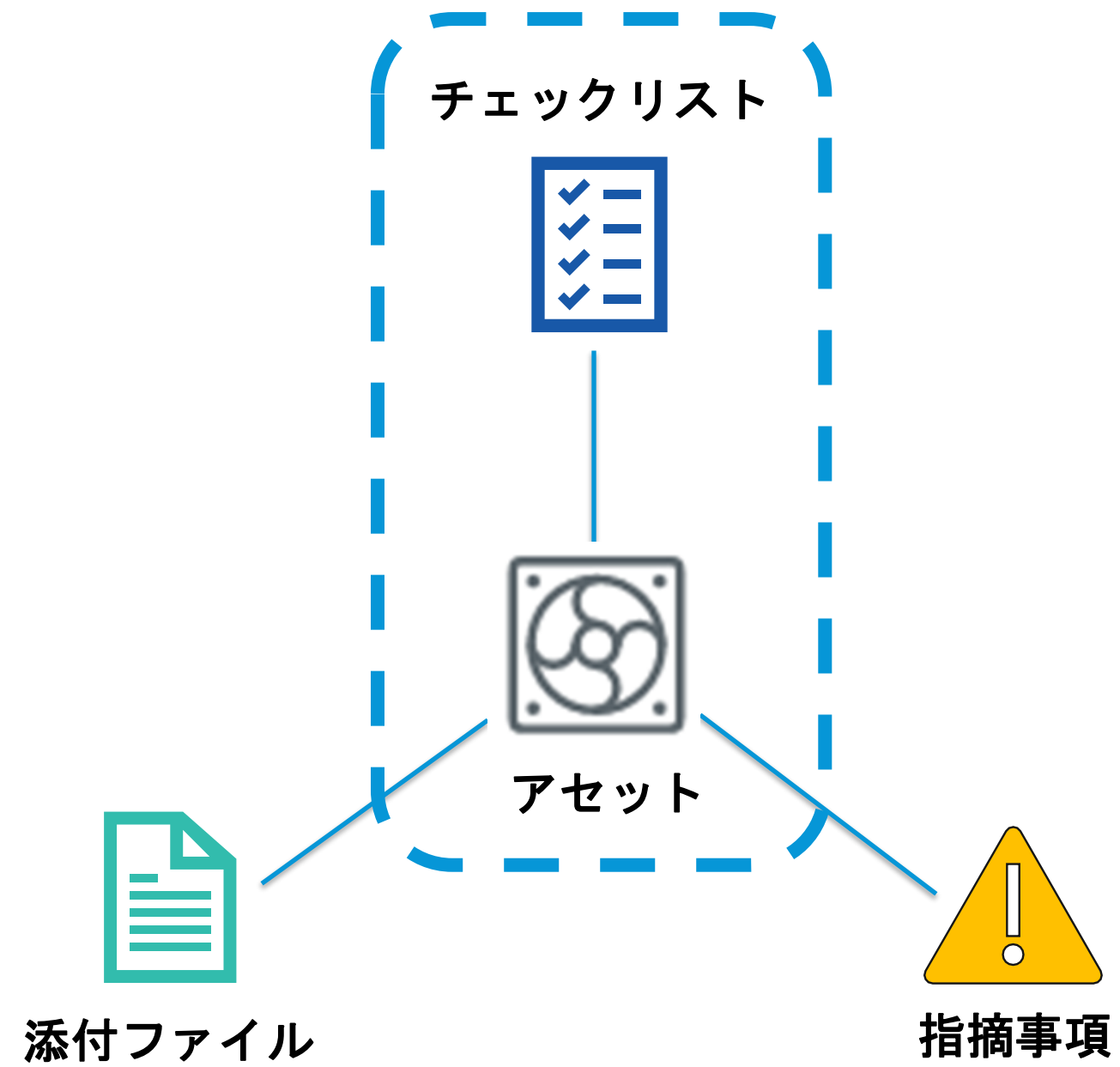


Relationships API

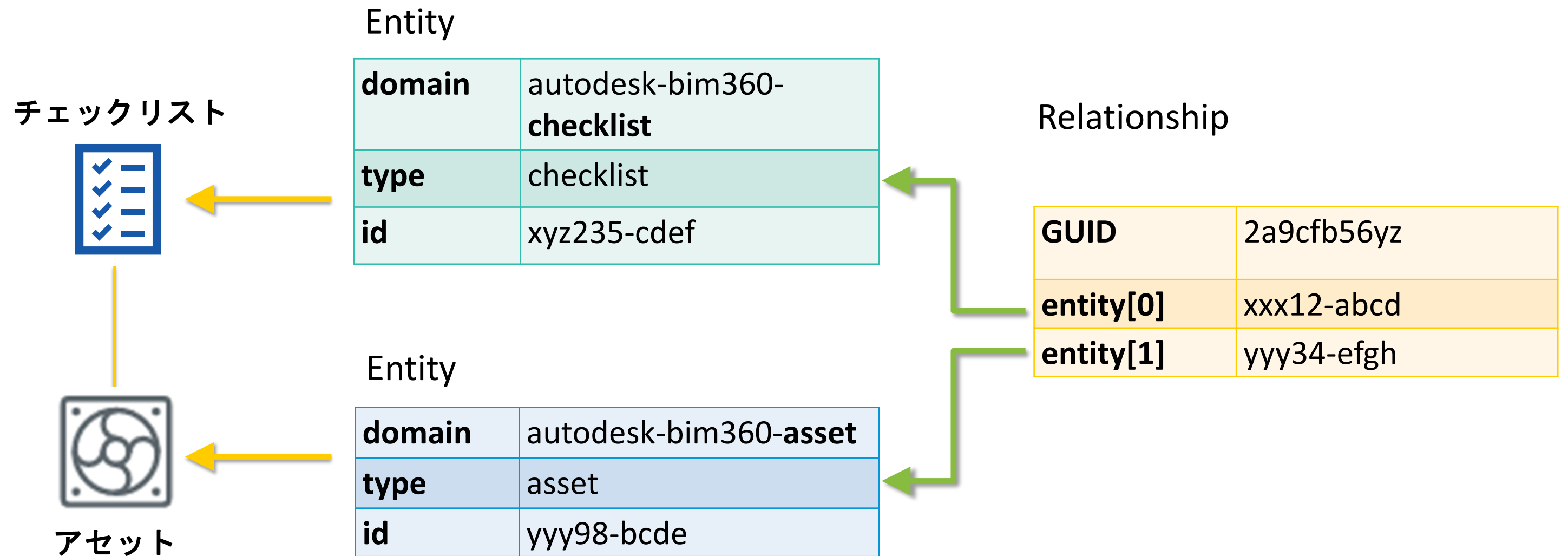
- 異なる機能コンポーネント（ドメイン）に存在するアイテム
 - （エンティティ）間のリンクを表現
- BIM 360の様々なモジュールで使用：
 - Model Coordination, Assets, Field Management, Cost Management
 - 古くから存在する機能には使用されていない可能性
- 読み取り専用（作成はドメインの関数で行う）
- 既にリリース済み



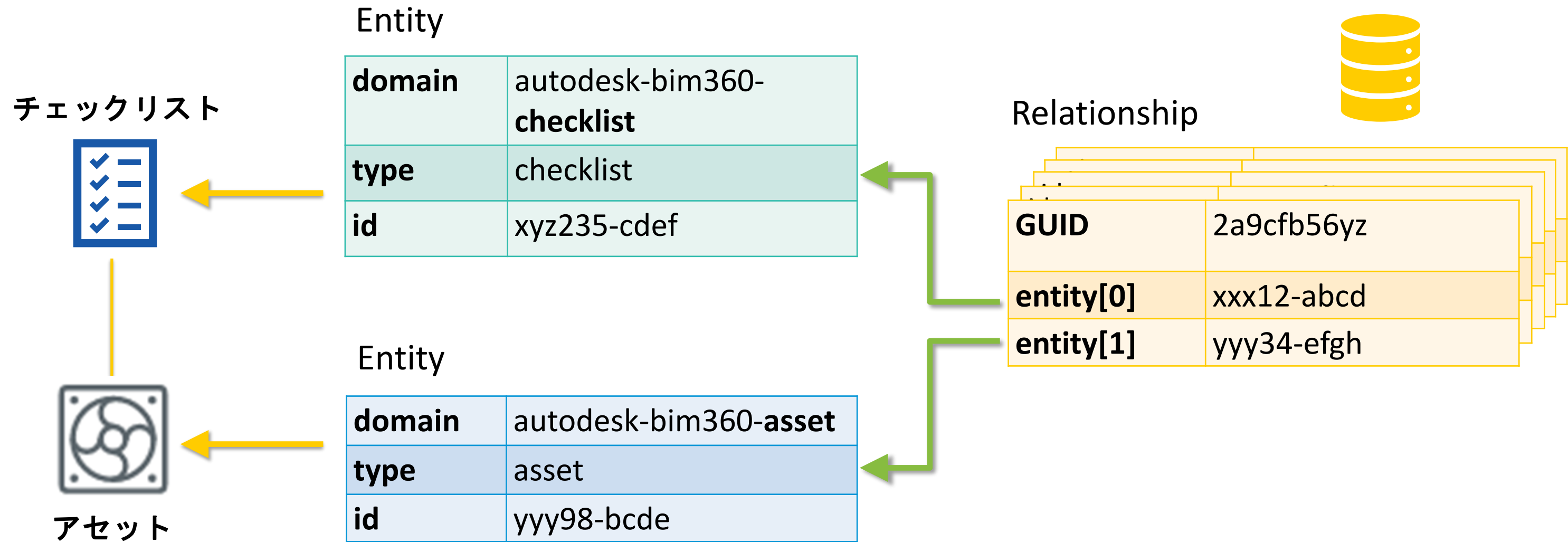
Relationships API



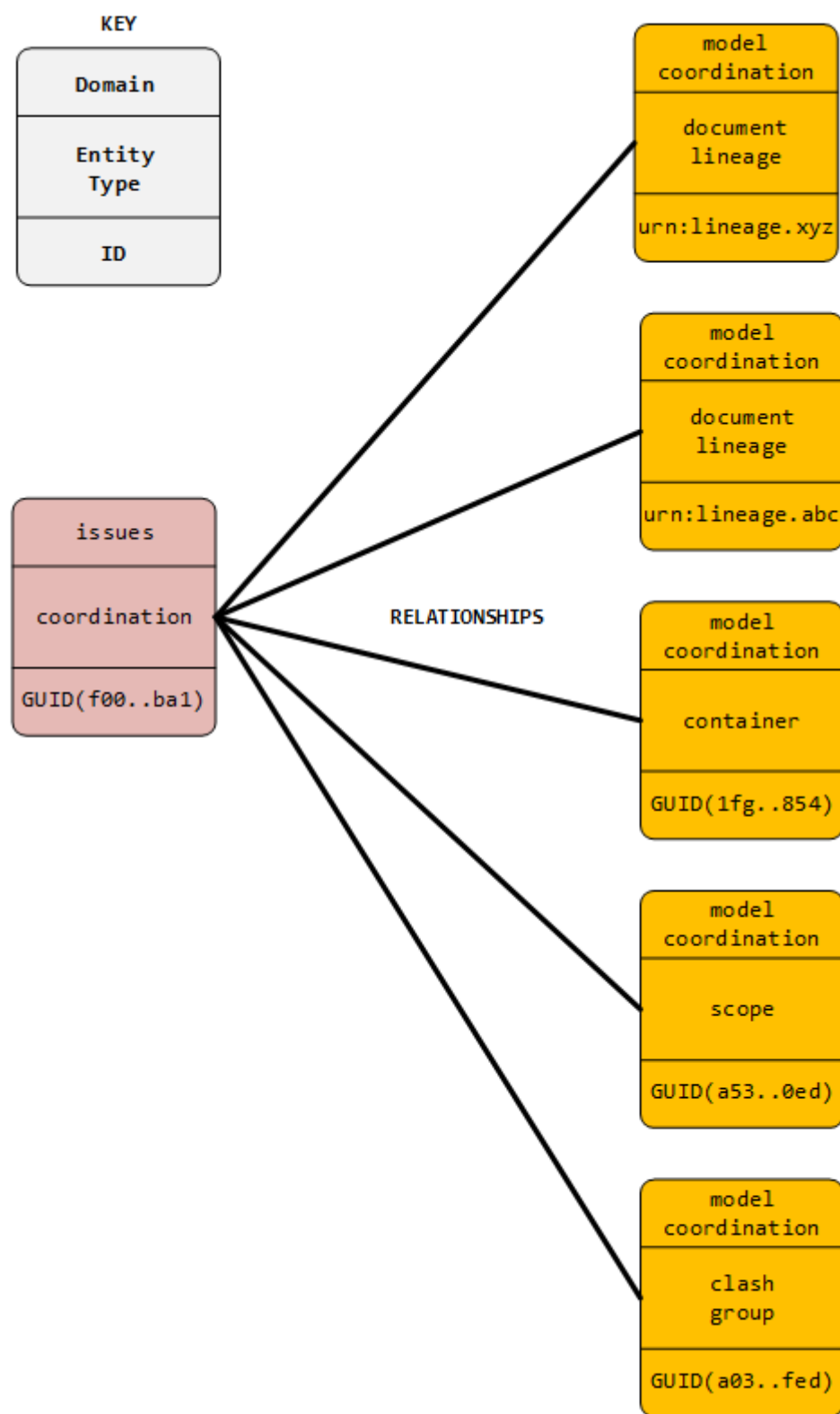
Relationships API



Relationships API



Relationships API



Relationship ID	Domain Entity	Domain Entity
d9018d05-f23e-478f-8348-c5840785400a	issues-coordination-GUID(f00..ba1)	modelcoordination-documentlineage-urn:lineage.xyz
bbc1708e-8511-4d38-b80c-1a05f392bb6a	issues-coordination-GUID(f00..ba1)	modelcoordination-documentlineage-urn:lineage.abc
bf403b6f-075a-4160-8ee0-dfb7b172b330	issues-coordination-GUID(f00..ba1)	modelcoordination-container-GUID(1fg..854)
5908fd9b-4f0a-49bd-963a-8955f09ccfeb	issues-coordination-GUID(f00..ba1)	modelcoordination-scope-GUID(a53..0ed)
095b1f99-1f08-4149-99aa-c03cf479dcc5	issues-coordination-GUID(f00..ba1)	modelcoordination-clashgroup-GUID(a03..fed)

Relationships API

カテゴリ	エンドポイント
検索	GET relationships/:relationshipId
	POST relationships:batch
	GET relationships:search
	POST relationships:intersect
同期	POST relationships:sync
	POST relationships:syncStatus

Relationships API

Relationship を id から取得

Category	Endpoints
Search	GET relationships/:relationshipId
	POST relationships:batch
	GET relationships:search
	POST relationships:intersect
Sync	POST relationships:sync
	POST relationships:syncStatus

```
JSON
{
  id: "79835e9e-ab4c-4c43-b480-a7ba54196e6e"
  createdOn: "2020-10-03T20:53:14.268952+00:00"
  readOnly: true
  isService: true
  isDeleted: false
  entities: [
    {
      createdOn: "2020-10-03T20:53:14.175205+00:00"
      domain: "autodesk-bim360-checklist"
      type: "checklist"
      id: "569859"
    },
    {
      createdOn: "2020-10-03T20:49:21.651508+00:00"
      domain: "autodesk-bim360-asset"
      type: "asset"
      id: "f972c095-d6b2-4fd3-ae1c-70ef6061c8af"
    }
  ]
}
```

Relationships API

カテゴリ	エンドポイント
検索	GET relationships/:relationshipId
	POST relationships:batch
	GET relationships:search
	POST relationships:intersect
同期	POST relationships:sync
	POST relationships:syncStatus

与えられた条件 (domain, type, ids, 日時) に一致する Relationship を検索。

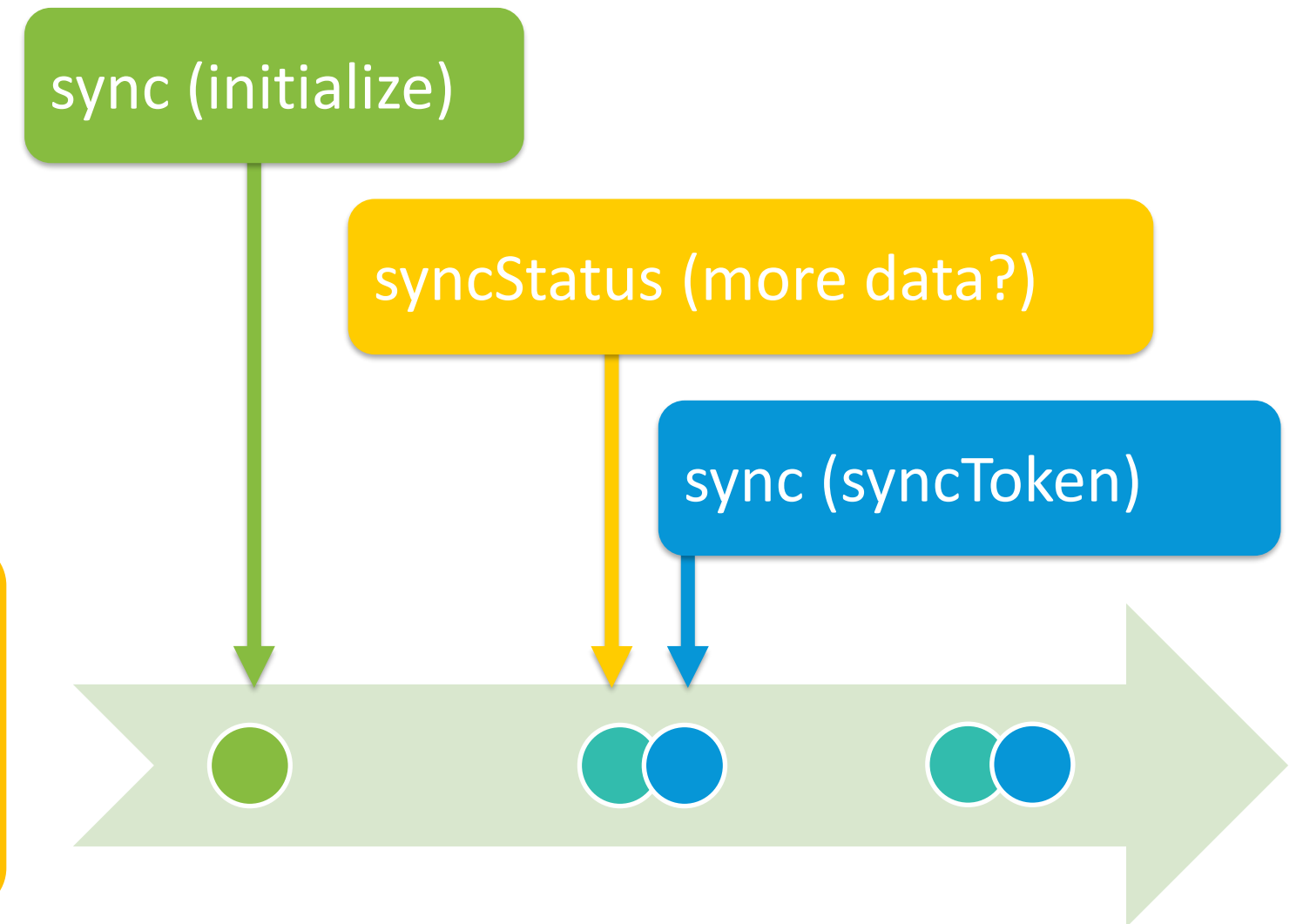
“アセットとチェックリスト間の
リレーションシップを取得してください”

```
GET relationships:/search?  
domain=autodesk-bim360-asset  
&withDomain=autodesk-bim360-  
checklist
```

Relationships API

カテゴリ	エンドポイント
検索	GET relationships/:relationshipId
	POST relationships:batch
	GET relationships:search
	POST relationships:intersect
同期	POST relationships:sync
	POST relationships:syncStatus

Relationshipデータを外部で保存しているデータと同期する際に使用。



Relationships API デベロッパリソース

Relationship API SDK

- [.NET Core nuget パッケージ](#)
- [JavaScript / Node.js](#)



Relationships API デベロッパリソース

ドキュメンテーション

The screenshot shows the Autodesk Forge Relationships API Developer's Guide. The top navigation bar includes the Autodesk Forge logo, links for Success Stories, Solutions, Getting Started, Documentation, Community, Support, Pricing, and a SIGN IN button. The left sidebar contains a table of contents for the BIM 360 API v1, with the Relationships section highlighted. The main content area is titled 'Relationships' and includes a sub-header 'Containers vs. BIM 360 Projects' and a paragraph explaining that BIM 360 Data Services use 'Containers' as a primary data partition. Below this is a section titled 'Domain Entities' which explains that the Relationship Service is built on the concept of Domain Entities and provides a list of attributes for these entities.

AUTODESK FORGE Success Stories Solutions ▾ Getting Started Documentation Community ▾ Support ▾ Pricing [SIGN IN](#)

BIM 360 API v1

- Developer's Guide
 - Introduction
 - API Basics
 - Field Guide
 - Account Admin
 - Model Coordination
 - Cost Management (beta)
 - Relationships**
 - Parameters
 - Rate Limits and Quotas
 - Partner Program
- Step-by-Step Tutorials
- API Reference

Relationships

Containers vs. BIM 360 Projects

BIM 360 Data Services e.g. the Relationship Service use “Containers” as a primary data partition for all the service data associated with a specific Project and or Account. In the case of the Relationships Service, a container is created when a new BIM 360 Project is created. The application uses the BIM 360 Docs Project ID as the container GUID for the Relationships container.

Domain Entities

The Relationship Service is built on the concept of *Domain Entities*. Put simply, a Domain Entity is something which can be identified in one of the applications which comprise BIM 360 today. Examples of Domain Entities include Issues, Files, Meetings, Check-lists etc.. Each of these things (or Entities) has three distinct attributes :-

1. They belong to a *Domain* e.g. Budgets belong to the BIM 360 Cost domain (Application).
2. They have an *Entity Type* which allows them to be distinguished from other types of entity in the Domain, e.g. a Budgeted is distinct from a Contract, however both these entity types belong to the Cost domain.



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