

EASY ASSET TWIN

(CONFIG SHEET INSTRUCTIONS)

DETAIL INSTRUCTIONS:

It's an elaboration for config sheet to perform an initial project setup and updating the project using "Easy Asset Twin" scripts.

It supports the dynamic function which can create (or) update a project either with all set of data (or) with available information.

For any data, user group and properties configuration are dynamic based on every individual project.

- ✚ For Creating the Project setup make sure the below mentioned setup is done in config file before creating the project with available data.
- ✚ For Updating the Project setup, use the same config sheet as source, change the "Import List" sheet access as "Yes/No" and provide relevant data sheet to updated the project, whereas all other procedure steps remain same.

1. PATH SHEET:

A. SCRIPT PATH:

- i. This path is used to pick the JS script files for project setup.
- ii. Provide the local path where the repository are stored in your local machine.
- iii. Eg: C:/projects/ClientApplicationConfig/Solution Engineering/Easy Asset Twin Project/

B. BIMPK PATH:

- i. This path is used to pick the model file (BIMPK) for importing the model to project.
- ii. Provide the local path where the model are stored in your local machine, it should cover along with file name and file format.
- iii. Eg: C:/projects/ClientApplicationConfig/Solution Engineering/Easy Asset Twin Project/data/General Medical - Architecture.bimpr

C. FILES PATH:






- i. This path is used to pick files automatically during the "Bulk File upload" process.
- ii. Provide the local path where the files are stored in your local machine.
- iii. Eg: C:/Users/DigitalTwin/Files

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D. REPORT PATH:

- i. This path is used to store the execution reports for the project setup.
- ii. Eg:C:/Users/Downloads/Reports
- iii. It has following set of report
 - Missing_Sheet_Report.xlsx (Generated for any missing sheet information, if import list is marked as "Yes")
 - Successfully_Upload (Files that are successfully uploaded, generated after bulk upload)
 - Failed_To_Upload (Files that are failed to upload, generated after bulk upload)
 - Missing_File_In_Sheet (Files that are missed in sheet to upload, generated after bulk upload)
 - Missing_File_In_Folder (Files that are missed in folder to upload, generated after bulk upload)

| Script Path | BIMPK Path | Files Path | Report Path |
|--|---|--|---|
| C:/Users/Downloads/TwinT/P4-Core-Digital-Buildings/Asset Twin Setup/ | C:/Users/Downloads/TwinT/P4-Core-Digital-Buildings/Asset Twin Setup/model/bimpk.bimpk | C:/Users/Downloads/Files | C:/Users/Downloads/Files |
|  |  |  |  |
| Instructions | | | |
| Provide your script path where Asset Twin folder repository is stored in your local machine, just copy and paste the path upto directed to scripts folder. | Provide your model path where is stored in your local machine, just copy and paste the path along with model name and format. | Provide your bulk upload file path where the files are stored in your local machine, just copy and paste the path complete folder. | Provide your path where execution reports need to be stored in your local machine, just copy and paste the path complete folder. |
| Eg: C:/projects/Clients/Application/Config/Solution Engineering/Easy Asset Twin Project/ | Eg: C:/projects/Clients/Application/Config/Solution Engineering/Easy Asset Twin Project/data/General Medical - Architecture.bimpk | Eg: C:/Users/Downloads/Files | Eg: C:/Users/Downloads |
| Note: All column header name should be as same as they are used as default values to read the sheet. | | | Name of Reports: |
| | | | 1. Missing_Sheet_Report.xlsx (Generated for any missing sheet information, if import list is marked as "Yes") 2. Successfully_Upload (Files that are successfully uploaded, generated after bulk upload) 3. Failed_To_Upload (Files that are failed to upload, generated after bulk upload) 4. Missing_File_In_Sheet (Files that are missed in sheet to upload, generated after bulk upload) 5. Missing_File_In_Folder (Files that are missed in folder to upload, generated after bulk upload) |
|  | | | |

2. CONFIG SHEET:

- i. It represents the User Group Name that are created during project creation.
- ii. Navigator, Asset, Space, Files, Collections, Model Elements are handlers display as page component of asset twin.
 - a. When these are marked as "Yes", it will be included as handler to that particular user group.
 - b. When these are marked as "No", it will be excluded handler to that particular user group.
- iii. Bulk Upload will enable UI to display model upload and Import information as an handler acts like an admin page.
- iv. By marking "Yes" it initiates the model upload.
- v. **Note:**
 - a. **Currently default names are used can't be modified.**

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- b. All column header name should be as same as they are used as default values to read the sheet.

| UserGroupName | Navigator | Assets | Spaces | Files | Collections | BIMPK Upload |
|----------------|-----------|--------|--------|-------|-------------|--------------|
| Project Admin | Yes | Yes | Yes | Yes | Yes | Yes |
| Solution Admin | Yes | Yes | Yes | Yes | Yes | Yes |

Instructions

It represent the User Group Name that are created during project creation.

Note:

- 1.Currently default names are used can't be modified.
2. All column header name should be as same as they are used as default values to read the sheet.

1. These are handlers display as page components of asset twin.
2. When these are marked as "Yes", it will be included as handler to that particular user group.
3. When these are marked as "No", it will be excluded handler to that particular user group.

1. By marking "Yes" it initiate the model upload. It's a mandatory field for model import.
2. Enable UI to display model upload and Import information as an handler acts like an admin page.

3. IMPORT LIST SHEET:

A. BIMTYPE

- i. BIM Type function will map DtCategory and DtType properties to model.
- ii. When access is marked as "Yes" ensure the "Bim Type" sheet is filled with details.
- iii. When access is marked as "No" the "Bim Type" sheet can be empty.
- iv. It's a mandatory step to have BIM Type data imported along with DtCategory and DtType properties before the "Assets" or "Space" function import.

B. DOCUMENTATTRIBUTES

- i. Document Attribute function will add and update file attributes to the projects.
- ii. When access is marked as "Yes" ensure the "Document Attributes" sheet is filled with details.
- iii. When access is marked as "No" the "Document Attributes" sheet can be empty.
- iv. It's a mandatory step to have file attribute imported before the "Bulk File Upload".

C. ASSETS

- i. Assets function will add (or) update asset data and asset properties values.
- ii. When access is marked as "Yes" ensure the "Asset Property Info" and "Assets" sheet is filled with details.
- iii. When access is marked as "No" the "Asset Property Info" and "Assets" sheet can be empty.

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D. SPACES

- i. Spaces function will add (or) update Space data and Space properties values.
- ii. When access is marked as "Yes" ensure the "Space Property Info" and "Spaces" sheet is filled with details.
- iii. When access is marked as "No" the "Space Property Info" and "Spaces" sheet can be empty.

E. MODELIMPORT

- i. Model Import function will upload and import model to the project.
- ii. When access is marked as "Yes" ensure the "BIMPK Path" is provided under "Path" sheet.
- iii. When access is marked as "No" the "BIMPK Path" is provided under "Path" sheet can be empty.

F. BULKFILEUPLOAD

- i. Bulk File Upload function will upload documents to the project.
- ii. When access is marked as "Yes" ensure the "File Path" is provided under "Path" sheet and fill the File List" sheet with file name & file attribute values.
- iii. When access is marked as "No" the "File Path" is provided under "Path" sheet and "File List" sheet can be empty.
- iv. **It's a mandatory step to import the document attribute before "Bulk File Upload", skip if its already done.**

G. ASSETANDFILERELEATION

- i. Asset and File Relation function will relate files and asset as extended data in the project.
- ii. When access is marked as "Yes" ensure the "Asset and Files" sheet with File Name & Asset Name.
- iii. When access is marked as "No" the "Asset and Files" sheet can be empty.
- iv. **It's a mandatory step to import the Asset data before "Asset and File Relation", skip if its already done.**

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| | Function Name | Access | | Instructions |
|--|----------------------|--------|---|---|
| | ModelImport | Yes | → | 1. Model Import function will upload and import model to the project. 2. When access is marked as "Yes" ensure the "BIMPK Path" is provided under "Path" sheet. 3. When access is marked as "No" the "BIMPK Path" is provided under "Path" sheet can be empty. |
| | BimType | Yes | → | 1. BIM Type function will map DtCategory and DtType properties to model. 2. When access is marked as "Yes" ensure the "Bim Type" sheet is filled with details. 3. When access is marked as "No" the "Bim Type" sheet can be empty. 4. Its a mandatory step to have BIM Type data imported along with DtCategory and DtType properties before the "Assets" or "Space" function import. |
| | DocumentAttributes | Yes | → | 1. Document Attribute function will add and update file attributes to the projects. 2. When access is marked as "Yes" ensure the "Document Attributes" sheet is filled with details. 3. When access is marked as "No" the "Document Attributes" sheet can be empty. 4. Its a mandatory step to have file attribute imported before the "Bulk File Upload". |
| | Assets | Yes | → | 1. Assets function will add (or) update asset data and asset properties values. 2. When access is marked as "Yes" ensure the "Asset Property Info" and "Assets" sheet is filled with details. 3. When access is marked as "No" the "Asset Property Info" and "Assets" sheet can be empty. |
| | Spaces | Yes | → | 1. Spaces function will add (or) update Space data and Space properties values. 2. When access is marked as "Yes" ensure the "Space Property Info" and "Spaces" sheet is filled with details. 3. When access is marked as "No" the "Space Property Info" and "Spaces" sheet can be empty. |
| | BulkFileUpload | Yes | → | 1. Bulk File Upload function will upload documents to the project. 2. When access is marked as "Yes" ensure the "File Path" is provided under "Path" sheet and fill the "File List" sheet with file name & file attribute values. 3. When access is marked as "No" the "File Path" is provided under "Path" sheet and "File List" sheet can be empty. 4. Its a mandatory step to import the document attribute before "Bulk File Upload", skip if its already done. |
| | AssetandFileRelation | Yes | → | 1. Asset and File Relation function will relate files and asset as extended data in the project. 2. When access is marked as "Yes" ensure the "Asset and Files" sheet with File Name & Asset Name. 3. When access is marked as "No" the "Asset and Files" sheet can be empty. 4. Its a mandatory step to import the Asset data before "Asset and File Relation", skip if its already done. |

4. BIM TYPE SHEET: (APPLICABLE ONLY FOR BIMPK, NOT APPLICABLE FOR SGPK)

- Initially this sheet is exported from "Export Data Script.js" under project scripts using "Generate BIM Type Report" script
- Later the exported data will only have Revit properties, leaving the dtCategory and dtType properties as empty.
- For updating BIM Type elements its mandatory to add dtCategory and dtType properties values manually so the model elements will map with assets.
- This sheet is used when BIM Type is marked as "Yes".

v. Note:

- All column header name should be as same as they are used as default values to read the sheet.
- This sheet is applicable only for BIMPK, Not Applicable for SGPK

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[illegible]

5. DOCUMENT ATTRIBUTES SHEET:

A. ATTRIBUTES:

- i. These are file attributes filled with pick list for selecting the attribute values while uploading the files in UI.
- ii. This sheet is used when "Document Attribute" is marked as "Yes" to update the project with file attribute.
- iii. It's a mandatory sheet to filled and imported before the "Bulk File Upload" process.

B. TABLE VIEW: (MANDATORY)

- i. Here we can customize the UI table view by adding attribute name, only the mentioned attributes will be display as table view under files.

| Originator | File Type | Contributor | Building | Levels And Locations | Document Type | File Discipline | Table View | Instructions |
|-------------------------------------|---|-------------------------------------|---|--|--|--|---|---|
| General Medical Hospital Invicra | 2D drawing 3D model file Authority Submission Authority Submission - Fire Safety Document Image Reference & Manuals Specification & Catalogue Test Reports Video | Invicra General Medical Hospital | GMA - 1 GMA - 2 GMA - 3 GMA - 4 GMA - 5 | GF-Ground Floor LG-Low Ground Floor Roof No Levels applicable | 2D drawing 2D model file 3D model file Animation file (if a model) Bill of quantities Budgetary Estimate Calculations Calibration Certificate of Completion Clash Report Combined model Commissioning Certificate Correspondence | Acoustic Design Architecture BREEAM/LEED/SEAI Building Survey Civil Engineering Cladding Electrical Engineering Facilities Management Fire Protection engineering Geographical and Land Survey Health and safety consulting Heating and Ventilation Design Interior Design | Contributor Levels And Locations Document Type File Discipline | Here we can customize the UI table view by adding attribute name, only the mentioned attributes will be display as table view under files |

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6. ASSET PROPERTY INFO SHEET:

A. PROPERTY, TYPE AND UOM:

- i. This field is mandatory and should be filled with list of asset properties names as listed in asset sheet and respective type.
 - a. Eg: Type: text, date, number
 - b. Eg: Property: Asset Property Names
 - c. Eg: UOM: units of measures (If any)
- ii. **Note: All column header names should be as same as they are used as default values to read the sheet**

B. HIDDEN, GROUPS, PROPERTY SET: (OPTIONAL)

- i. This field is optional, can be filled with asset properties names as listed in asset sheet and these properties can be group as per the given name.
- ii. If group name and properties are "Blank" then it will automatically align as others group.
 - **Hidden:** This field will hide the properties to avoid displaying in UI.
 - **Groups:** This field will create groups and define the properties which are marked under the "property set".
 - **Property Set:** This field will map the asset properties to the relevant group.
- iii. **Note: Only properties available in the asset sheet are applicable has to be listed, grouped and hidden.**

C. TABLE VIEW: (MANDATORY)

- i. Here we can customize the UI table view by adding asset property name, only the mentioned properties will be display as table view under assets.

D. RELATION: (OPTIONAL)

- i. Here we can add the common properties between assets & space to create relation between assets & spaces and the relation is displayed as extended data in UI under assets and space. (Define in both asset and space at same time).
- ii. It can also be "blank", it will skip the creating or updating relation between assets and spaces.

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| Property | Type | Unit | Hidden | Groups | Property Set | Table/View | Relation |
|------------------|--------|------|-----------|------------------|--|------------|----------|
| platform | text | | revitGuid | Asset Properties | dtCategory dtType p1 p2 | dtCategory | AssetRel |
| dtCategory | text | | | Revit Info | Revit Category Revit Family Revit Type | dtType | |
| dtType | text | | | Information | Level Number | Level | |
| p1 | text | | | | | | |
| p2 | text | | | | | | |
| revitGuid | text | | | | | | |
| Revit Element ID | text | | | | | | |
| Revit Family | text | | | | | | |
| Revit Type | text | | | | | | |
| Revit Category | text | | | | | | |
| Level | text | | | | | | |
| Number | number | | | | | | |
| AssetRel | text | | | | | | |

| Instructions | | | | | | | |
|--|--|--|--|--|--|--|--|
| This field is mandatory and should be filled with list of asset properties names as listed in asset sheet and respective type. | | | | 1. This field is optional, can be filled with asset properties names as listed in asset sheet and these properties can be group as per the given name. | | | |
| Eg: Type: text, date, number | | | | 2. If group name and properties are "Blank" then it will automatically align as others group. | | | |
| Eg: Property: Asset Property Names | | | | 1. Hidden: This field will hide the properties to avoid displaying in UI. | | | |
| Eg: UOM: units of measures (If any) | | | | 2. Groups: This field will create groups and defined the properties which are marked under the "property set". | | | |
| Note: All column header name should be as same as they are used as default values to read the sheet. | | | | 3. Property Set: This field will map the asset properties to the relevant group. | | | |
| | | | | Note: Only properties available in asset sheet are applicable has to be listed, grouped and hidden. | | | |

| | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|
| 1. Table View: (Mandatory) | | | | Here we can customize the UI table view by adding asset property name, only the mentioned properties will be display as table view under assets. | | | |
| | | | | 2. Relation: (Optional) | | | |
| | | | | a. Here we can add the common properties between assets & space to create relation between assets & spaces and the relation is displayed as extended data in UI under assets and space. (Define in both asset and space at same time). | | | |
| | | | | b. It can also be "blank", it will skip the creating or updating relation between assets and spaces. | | | |

7. ASSETS SHEET:

- Initially this sheet is exported from "Export Data Script.js" under project scripts using "Export Asset Data" script.
- Later, the exported data will only have dtCategory, dtType, Revit properties, leaving the Asset Name as empty.
- For updating Asset Data it's mandatory to add Asset Name as properties values manually so the Asset elements will map with dtCategory and dtType.
- Asset should have unique value for all assets.
- This sheet is used when Assets is marked as "Yes" in import list.
- Note: All column header name should be as same as they are used as default values to read the sheet.

| dtCategory | dtType | p1 | p2 | Asset Name | revitGuid | Revit Element ID | Revit Family | Revit Category | Level | Number | AssetRel |
|------------------------|--------|----|-----|------------------------|---|------------------|----------------------------|----------------|-------|--------|----------|
| Architectural Elements | Doors | 1 | 001 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 001 | 2011 |
| Architectural Elements | Doors | 2 | 002 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 002 | |
| Architectural Elements | Doors | 3 | 003 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 003 | |
| Architectural Elements | Doors | 4 | 004 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 004 | |
| Architectural Elements | Doors | 5 | 005 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 005 | |
| Architectural Elements | Doors | 6 | 006 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 006 | |
| Architectural Elements | Doors | 7 | 007 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 007 | |
| Architectural Elements | Doors | 8 | 008 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 008 | |
| Architectural Elements | Doors | 9 | 009 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 009 | |
| Architectural Elements | Doors | 10 | 010 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 010 | |
| Architectural Elements | Doors | 11 | 011 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 011 | |
| Architectural Elements | Doors | 12 | 012 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 012 | |
| Architectural Elements | Doors | 13 | 013 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 013 | |
| Architectural Elements | Doors | 14 | 014 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 014 | |
| Architectural Elements | Doors | 15 | 015 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 015 | |
| Architectural Elements | Doors | 16 | 016 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 016 | |
| Architectural Elements | Doors | 17 | 017 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 017 | |
| Architectural Elements | Doors | 18 | 018 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 018 | |
| Architectural Elements | Doors | 19 | 019 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 019 | |
| Architectural Elements | Doors | 20 | 020 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 020 | |
| Architectural Elements | Doors | 21 | 021 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 021 | |
| Architectural Elements | Doors | 22 | 022 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 022 | |
| Architectural Elements | Doors | 23 | 023 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 023 | |
| Architectural Elements | Doors | 24 | 024 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 024 | |
| Architectural Elements | Doors | 25 | 025 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 025 | |
| Architectural Elements | Doors | 26 | 026 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 026 | |
| Architectural Elements | Doors | 27 | 027 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 027 | |
| Architectural Elements | Doors | 28 | 028 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 028 | |
| Architectural Elements | Doors | 29 | 029 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 029 | |
| Architectural Elements | Doors | 30 | 030 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 030 | |
| Architectural Elements | Doors | 31 | 031 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 031 | |
| Architectural Elements | Doors | 32 | 032 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 032 | |
| Architectural Elements | Doors | 33 | 033 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 033 | |
| Architectural Elements | Doors | 34 | 034 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 034 | |
| Architectural Elements | Doors | 35 | 035 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 035 | |
| Architectural Elements | Doors | 36 | 036 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 036 | |
| Architectural Elements | Doors | 37 | 037 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 037 | |
| Architectural Elements | Doors | 38 | 038 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 038 | |
| Architectural Elements | Doors | 39 | 039 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 039 | |
| Architectural Elements | Doors | 40 | 040 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 040 | |
| Architectural Elements | Doors | 41 | 041 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 041 | |
| Architectural Elements | Doors | 42 | 042 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 042 | |
| Architectural Elements | Doors | 43 | 043 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 043 | |
| Architectural Elements | Doors | 44 | 044 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 044 | |
| Architectural Elements | Doors | 45 | 045 | Architectural Elements | 1167010-1041-4010-0000-0000-0000-0000-0000-0000 | 210010 | Single Flush w-Metal Frame | 300 | 84 | 045 | |

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8. SPACE PROPERTY INFO SHEET:

A. PROPERTY, TYPE AND UOM:

- i. This field is mandatory and should be filled with list of Space properties names listed in Space sheet and respective type.
 - i. Eg: Type: text, date, number
 - ii. Eg: Property: Space Property Names
 - iii. Eg: UOM: units of measures (If any)
- ii **Note: All column header name should be as same as they are used as default values to read the sheet**

B. HIDDEN, GROUPS, PROPERTY SET: (OPTIONAL)

- i This field is optional, can be filled with space properties names as listed in spaces sheet and these properties can be group as per the given name.
- ii If group name and properties are "Blank" then it will automatically align as others group.
- iii **Hidden:** This field will hide the properties to avoid displaying in UI.
- iv **Groups:** This field will create groups and defined the properties which are marked under the "property set".
- v **Property Set:** This field will map the space properties to the relevant group.
- vi **Note: Only properties available in asset sheet are applicable has to be listed, grouped and hidden.**

C. TABLE VIEW: (MANDATORY)

- i. Here we can customize the UI table view by adding space property name, only the mentioned properties will be display as table view under spaces.

D. RELATION: (OPTIONAL)

- i. Here we can add the common properties between assets & space to create relation between assets & spaces and the relation is displayed as extended data in UI under assets and space. (Define in both asset and space at same time).
- ii. It can also be "blank", it will skip the creating or updating relation between assets and spaces.

EASY ASSET TWIN

(CONFIG SHEET INSTRUCTIONS)

| Property | Type | uom | Hidden | Groups | Property Set | TableView | Relation |
|----------------|--------|-----|-----------|------------------|-----------------------------|-----------|----------|
| revitGuid | text | | revitGuid | Space Properties | Revit Family Revit Category | Number | SpaceRel |
| Name | text | | | Classification | Name/Number | Area | |
| Number | number | | | Information | Area.area_uom | | |
| Area | number | | | | | | |
| area_uom | text | sqm | | | | | |
| Revit Category | text | | | | | | |
| Revit Family | text | | | | | | |
| SpaceRel | text | | | | | | |

| Instructions | | | | | | | |
|---|--|--|--|---|--|--|--|
| This field is mandatory and should be filled with list of Space properties names listed in Space sheet and respective type. | | | | 1. This field is optional, can be filled with space properties names as listed in spaces sheet and these properties can be group as per the given name. | | | |
| Eg: Type: text, data, number | | | | 2. If group name and properties are "Blank" then it will automatically align as other group. | | | |
| Eg: Property - Space Property Names | | | | 1. Hidden: This field will hide the properties to avoid displaying in UI. | | | |
| Eg: UOM: units of measures (if any) | | | | 2. Groups: This field will create groups and defined the properties which are marked under the "property set". | | | |
| Note: All column header name should be as same as they are used as default values to read the sheet. | | | | 3. Property Set: This field will map the Space properties to the relevant group. | | | |
| | | | | Note: Only properties available in Space sheet are applicable has to be listed, grouped and hidden. | | | |
| | | | | 1. Table View: (Mandatory) | | | |
| | | | | Here we can customize the UI table view by adding space property name, only the mentioned properties will be display as table view under spaces. | | | |
| | | | | 2. Relation: (Optional) | | | |
| | | | | a. Here we can add the common properties between assets & space to create relation between assets & space and the relation is displayed as extended data in UI under assets and space. (Define in both asset and space at same time). | | | |
| | | | | b. It can also be "blank", it will skip the creating or updating relation between assets and spaces. | | | |

9. SPACES SHEET:

- Initially this sheet is exported from "Export Data Script.js" under project scripts using "Export Space Data" script.
- Later, the exported data will only have dtCategory, dtType, Revit properties, leaving the Space Name as empty.
- For updating Space Data it's mandatory to add Space Name as properties values manually so the Space elements will map with dtCategory and dtType.
- Space should have unique value for all spaces.
- This sheet is used when Spaces is marked as "Yes" in import list.
- Note: All column header name should be as same as they are used as default values to read the sheet.**

| Space Name | revitGuid | Name | Number | Area | area_uom | Revit Category | Revit Family | SpaceRel |
|---------------------|---|---------------------|--------|--------------|----------|----------------|--------------|----------|
| EXAM 1-4 | 42036081-216a-40e4-929a-262c099727cb-00030669 | EXAM 1-4 | 1104 | 120.875 | | OST_Rooms | | 2498 |
| EXAM 1-3 | 42036081-216a-40e4-929a-262c099727cb-00030674 | EXAM 1-3 | 1103 | 120 | | OST_Rooms | | 2498 |
| EXAM 1-2 | 42036081-216a-40e4-929a-262c099727cb-00030677 | EXAM 1-2 | 1102 | 120 | | OST_Rooms | | 2498 |
| EXAM 1-1 | 42036081-216a-40e4-929a-262c099727cb-00030672 | EXAM 1-1 | 1101 | 120 | | OST_Rooms | | 2498 |
| CONSULT 1 | 42036081-216a-40e4-929a-262c099727cb-0003067d | CONSULT 1 | 1109 | 80 | | OST_Rooms | | 2498 |
| CONSULT 2 | 42036081-216a-40e4-929a-262c099727cb-00030680 | CONSULT 2 | 1200 | 89.06901042 | | OST_Rooms | | 2498 |
| EXAM 2-1 | 42036081-216a-40e4-929a-262c099727cb-00030683 | EXAM 2-1 | 1201 | 119.06901041 | | OST_Rooms | | 2498 |
| EXAM 2-2 | 42036081-21 | | | | | | | 2498 |
| EXAM 2-3 | 42036081-21 | | | | | | | 2498 |
| EXAM 2-4 | 42036081-21 | | | | | | | 2498 |
| EXAM 3-1 | 42036081-21 | | | | | | | 2498 |
| EXAM 3-2 | 42036081-21 | | | | | | | 2498 |
| EXAM 3-3 | 42036081-21 | | | | | | | 2498 |
| EXAM 3-4 | 42036081-21 | | | | | | | 2498 |
| CONSULT 3 | 42036081-21 | | | | | | | 2498 |
| PATIENT RESTROOM | 42036081-21 | | | | | | | 2498 |
| PUBLIC RESTROOM | 42036081-21 | | | | | | | 2498 |
| JANITOR - 2 | 42036081-21 | | | | | | | 2498 |
| RECEPTION | 42036081-21 | | | | | | | 2498 |
| LAB | 34647296-13 | | | | | | | 2496 |
| TRIAGE | 34647296-13 | | | | | | | 2496 |
| TREATMENT ROOM | 34647296-13 | | | | | | | 2496 |
| MEDICAL GASES | 34647296-13 | | | | | | | 2496 |
| XRAY | 34647296-13 | | | | | | | 2496 |
| XRAY DEVELOPING | 34647296-13 | | | | | | | 2496 |
| PHARMACY | 34647296-13 | | | | | | | 2496 |
| ENTRY - 2 | 34647296-13 | | | | | | | 2496 |
| STAFF RESTROOM | 50b307af-0394-4336-a2c4-8953e00b2d4a-00035562 | STAFF RESTROOM | 1511 | 66.25 | sqm | OST_Rooms | | 2496 |
| SHOWER/LOCKER | 50b307af-0394-4336-a2c4-8953e00b2d4a-00035568 | SHOWER/LOCKER | 1511 | 127.7478299 | sqm | OST_Rooms | | 2496 |
| SUPPLIES | 50b307af-0394-4336-a2c4-8953e00b2d4a-0003556b | SUPPLIES | 1510 | 56.81119792 | sqm | OST_Rooms | | 2496 |
| ELECTRICAL | 681607b4-1776-4c24-98c9-5503a10489e-0003556c | ELECTRICAL | 1601 | 74.8375 | sqm | OST_Rooms | | 2496 |
| STAIRS | 127e62ef-e2f2-4d7b-9814-65ca49edbdcd-00036a32 | STAIRS | 1013 | 141.381276 | sqm | OST_Rooms | | 2496 |
| MRL ELEVATOR | 127e62ef-e2f2-4d7b-9814-65ca49edbdcd-00036a35 | MRL ELEVATOR | 1002 | 60.52083333 | sqm | OST_Rooms | | 2496 |
| LOBBY | 127e62ef-e2f2-4d7b-9814-65ca49edbdcd-00036a38 | LOBBY | 1001 | 732.5733684 | sqm | OST_Rooms | | 2496 |
| PATIENT COORDINATOR | 127e62ef-e2f2-4d7b-9814-65ca49edbdcd-00036a3e | PATIENT COORDINATOR | 1010 | 981.6544612 | sqm | OST_Rooms | | 2496 |
| NURSE STATION - 2 | 127e62ef-e2f2-4d7b-9814-65ca49edbdcd-00036b17 | NURSE STATION - 2 | 1012 | 67.93489583 | sqm | OST_Rooms | | 2496 |

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(CONFIG SHEET INSTRUCTIONS)

10. FILE LIST SHEET:

- i. This sheet is used when "Bulk File Upload" is performed.
- ii. When "Bulk File Upload" is marked "Yes" this sheet should be filled with File name along with file format (mandatory) and attribute values.
- iii. Note: Attributes names and File names are case-sensitive, so keep the attributes as same as "Document Attributes" sheet and first column as "File Name".

[illegible]

11. ASSETS AND FILES SHEET:

A. ASSET NAME:

- i. This field should be filled with Asset name which needs to be related with Files.
- ii. This will map the mentioned Assets to Files.
- iii. **Note: Column names are case-sensitive, so keep the first columns as "Asset Name" and second columns as "File Name".**

A. FILE NAME:

- iv. This field should be filled with File name along with format which needs to be related with Assets.
- v. This will map the mentioned Files to the Assets.
- vi. For multiple file mapping, mention the files using forward slash "/".
- vii. **Note: Keep the files name along with file formats.**

(CONFIG SHEET INSTRUCTIONS)

[illegible]

12. COMMON CONFIG ERROR (AVOID DURING SETUP)

- i. It will avoid unnecessary errors during execution.
 - a. Ensure the paths are selected correctly.
 - b. Ensure the empty rows are deleted.
 - c. Ensure properties and relation values are matched properly
 - d. Ensure all files are uploaded to avoid Asset & File relationship failure. Else, re-upload missed or failed files, then recreate the relation for asset and files.
 - e. Ensure the console is monitored during execution to observe any errors or execution completion status.
 - f. **Note: If any error during execution takes a screenshot and send a mail. Thanks!**