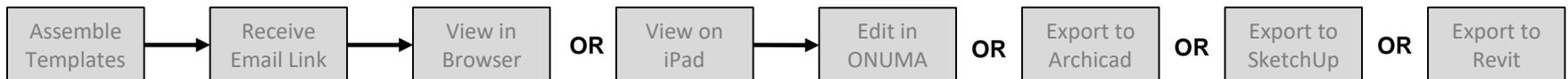




# Program2BIM

## Step by Step Guide



Powered by



# Assemble Room Templates

Education BIM Room Templates

Step 1: Select Number of Spaces

SEARCH

**CLR01 - CLASSROOM, TABLE/CHAIR**  
Area: 700 SF  
Type: Classroom  
Total Components: 75  
Select Number of Spaces:

**CLR03 - CLASSROOM, COMPUTER TRAINING**  
Area: 240 SF  
Type: Classroom  
Total Components: 43  
Select Number of Spaces:

**STU015 - Medium Classroom**  
Area: 960 SF  
Type: Classroom  
Total Components: 106  
Select Number of Spaces:

Select one of the categories (healthcare, education, etc.) to access the Room Templates on the website

[Program2BIM.com](http://Program2BIM.com)

...and select the number of spaces for each Room Template

Once finished adding the number of required spaces to the "shopping cart", enter your email address and:

**BUILD BIM OF SELECTED SPACES**

CRA01 - Small Conference Room Quantity:

CRA02 - Medium Conference Room Quantity:

+ Add More BIM Templates

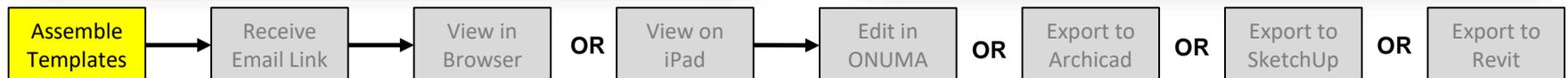
Total BIM Templates  
Quantity: 6 Spaces  
Total Area: 1234 sf  
Total Equipment: 167

Step 2: Enter Your Email Address to Receive BIM and Data  
Available as: Revit, Archicad, SketchUp, Onuma, COBie, Excel, BIMXML

Email \*

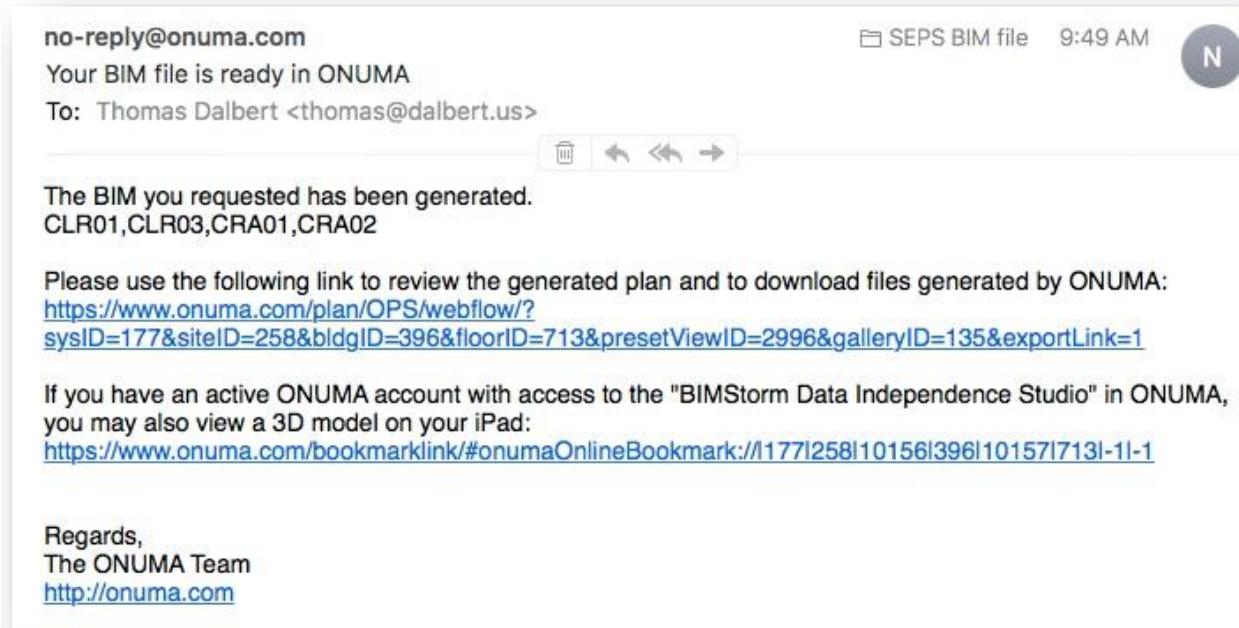
**BUILD BIM OF SELECTED SPACES**

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# Receive Email with Links

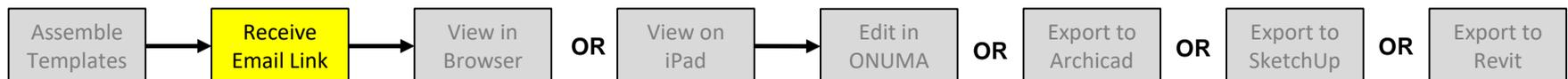
Check your email with links to view the BIM online, or download BIM and Data:



This is a sample link of what you will receive in the email:

<https://www.onuma.com/plan/OPS/webflow/?sysID=177&siteID=258&bldgID=396&floorID=713&presetViewID=2996&galleryID=135&exportLink=1>

Using this link you can export BIMXML files to be used with the plugins for Archicad, Revit, and Sketchup. You can also export the data of your project to various spreadsheets including COBie.



# View Generated Project in Web Browser

## BIM information

The generated BIM Room Templates have a date stamp that identifies how "fresh" the BIM is. These BIMs are generated from live data and will get updated as the data changes.

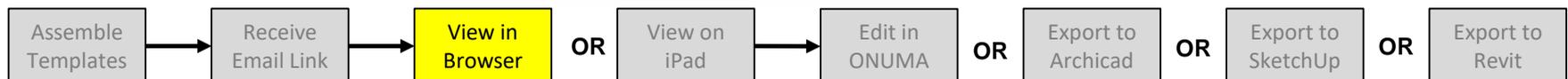
## Web Based View of generated BIM

**Export BIMXML** and import into BIM application with one of the plugins available here on the Tools page of Program2BIM.com



**Export BIM data** as spreadsheets

**Get the Plugins & the Equipment Libraries** for the various BIM applications



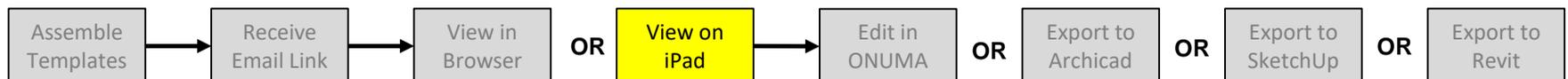
# View Generated Project on iPad



ONUMA 3D for iPad  
[Get it for free in the App Store](#)



View, experience, comment, and share your project in 3D in ONUMA 3D for the iPad and collect additional data in the field.

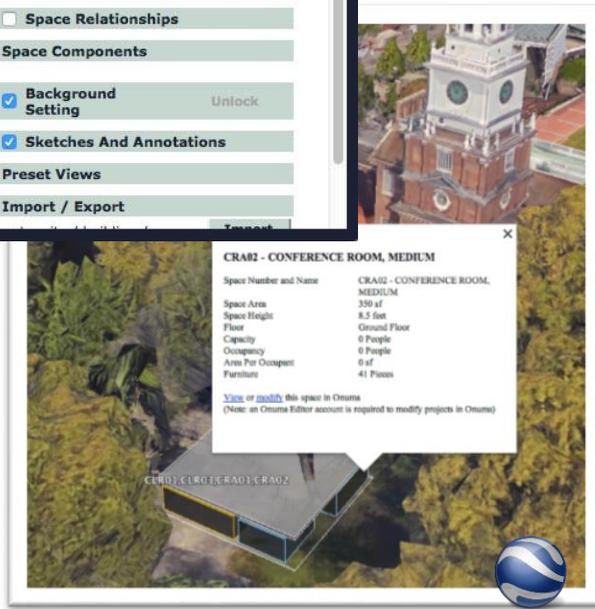


# Edit Project in ONUMA

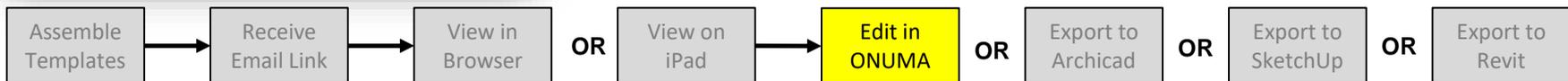


The screenshot displays the ONUMA software interface. At the top, it shows 'BIMStorm Data Independence' and 'Owner: Thomas Dalbert'. The project name is 'Project: BIMStorm Projects' with a scheme '(S177\_258) CLR01,CLR03,CRA01,CRA02'. The interface includes a menu bar with options like 'Studios', 'Project List', 'Site Plan', 'Floor Plan', 'Space Plan', 'BIM Gallery', 'Reports', 'Settings', 'Search', 'BIM Mail', 'Share', and 'Bugs and Comments'. On the left, the 'BIM Navigation' tree shows a hierarchy of objects: CLR01, CLR03, CRA01, CRA02, with sub-objects for classrooms and conference rooms. The main workspace shows a floor plan in 'Edit Mode (Locked)'. A detailed view of a room (CLR01) is shown below, containing various furniture items like tables and chairs, each with a unique ID (e.g., F0780-13, F0780-10, etc.). On the right, the 'Add Object(s)' panel offers options to 'Add Empty Space(s)' or select from 'Basic Shapes' and 'Custom Shape'. Below this, a '300 SF Space' is highlighted. The 'Floor Level Data' panel on the far right allows for editing floor slabs, copying slabs, walls, and spaces, and setting space attributes like 'Functional Area' and 'Background Setting'. A 'Keyboard Shortcuts' panel is also visible at the bottom of the main workspace.

Google Earth View

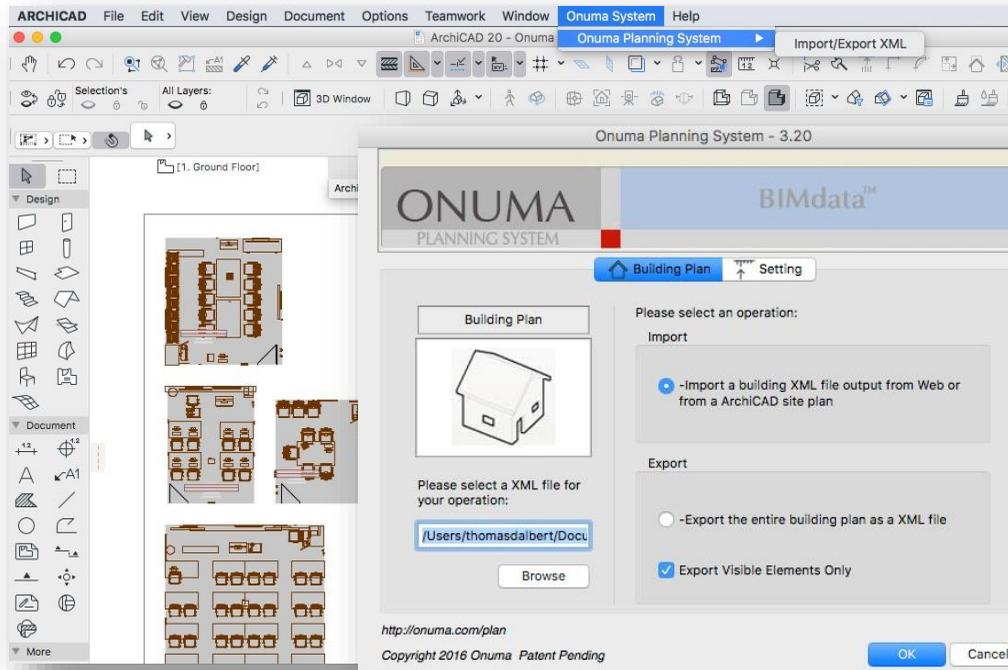


With an ONUMA System account, you can edit the model and all associated data directly in ONUMA and export the BIM at any point for use in other applications.



# Export of BIMXML to import into Archicad

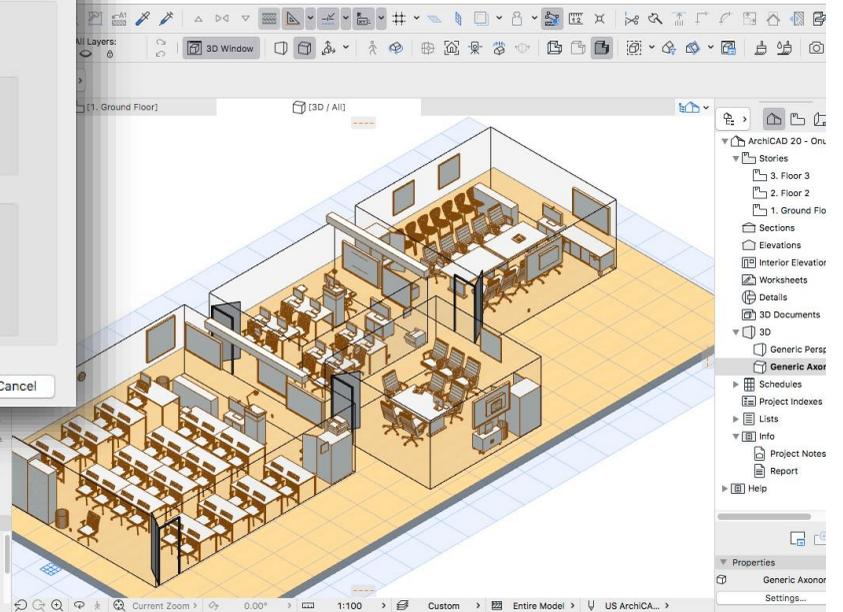
Once the ONUMA System Plugin has been installed with Archicad's Add-On Manager, a menu item "Onuma System" will be available to import BIMXML files into Archicad.



Library Manager

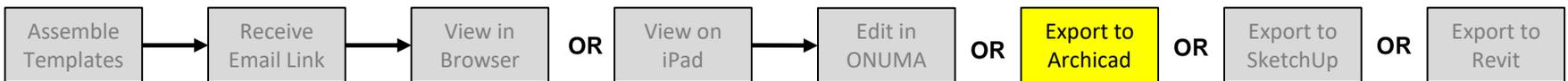
Name	Location
Embedded Library	
MILSTD1691_15Mar201...	/Users/thomasdalbert/D...TD1691_15Mar2016.lcf
OPS-completeLibrary	/Users/thomasdalbert/D...bit/OPS-completeLibrary

Before importing the BIMXML file, load the MILSTD1691 object library with the Library Manager. This library includes many of the generic objects that are included in the Program2BIM templates.

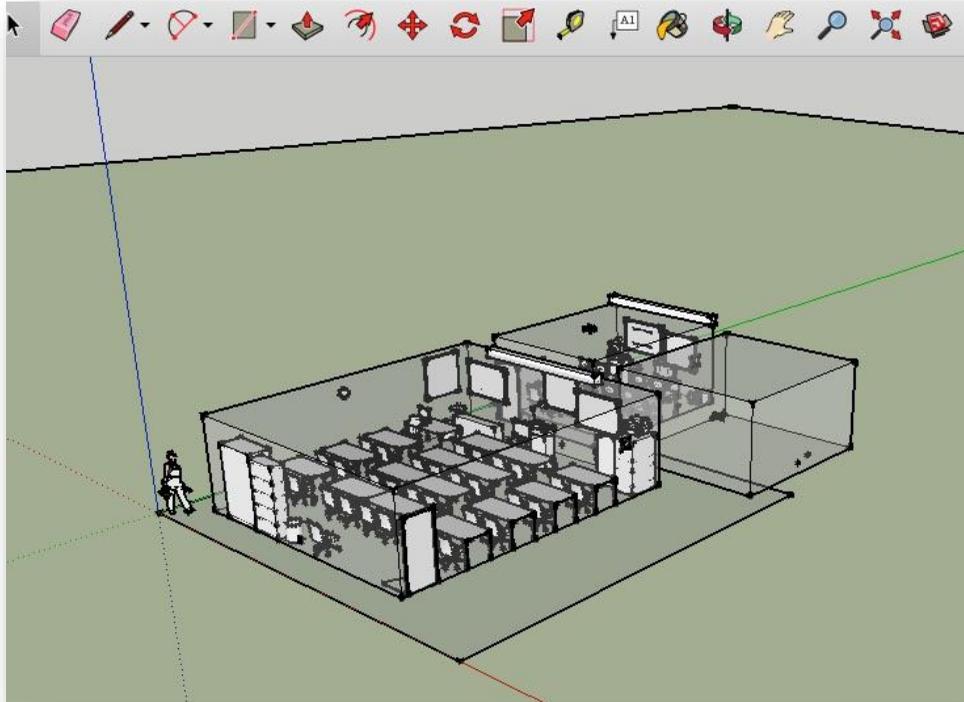


Use the Onuma Template file which is included when downloading the Plugin to import the BIMXML file into.

Get the Plugin in the [Tool section of Program2BIM](#)

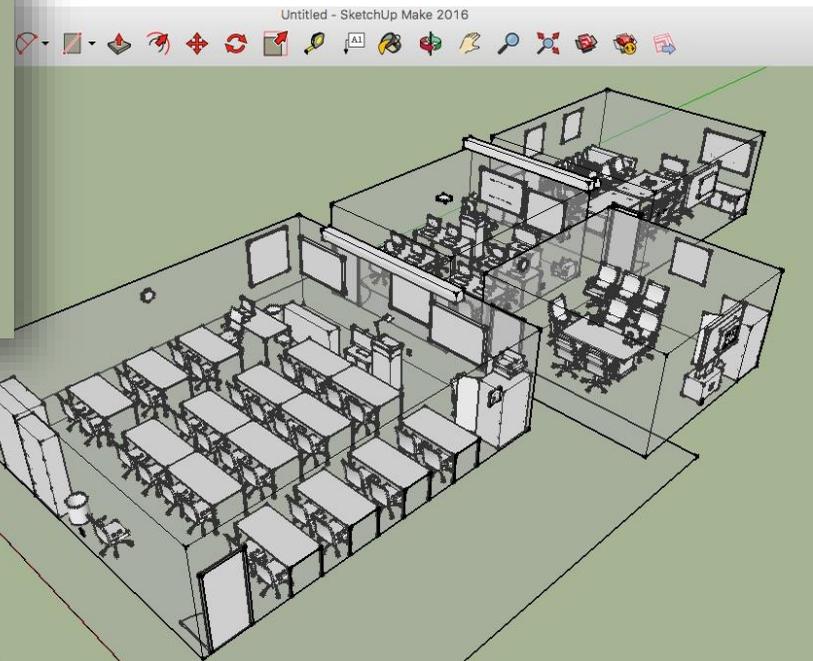


# Export of BIMXML to import into SketchUp

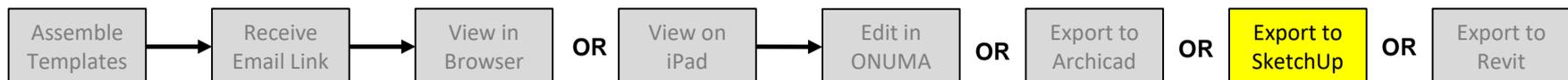


## 3D Warehouse

Note: All SketchUp Components are loaded directly from the 3D Warehouse. When SketchUp reads the BIMXML file, it grabs each required component from the 3D Warehouse library and dynamically populates the project as seen in the screenshot on the left.

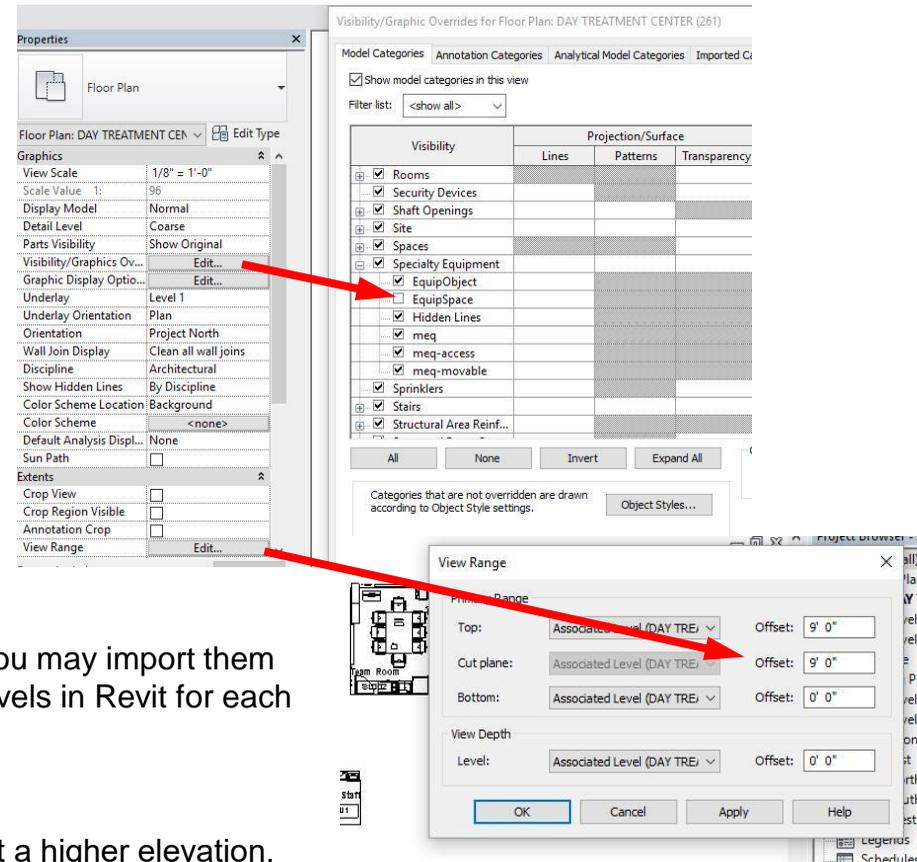
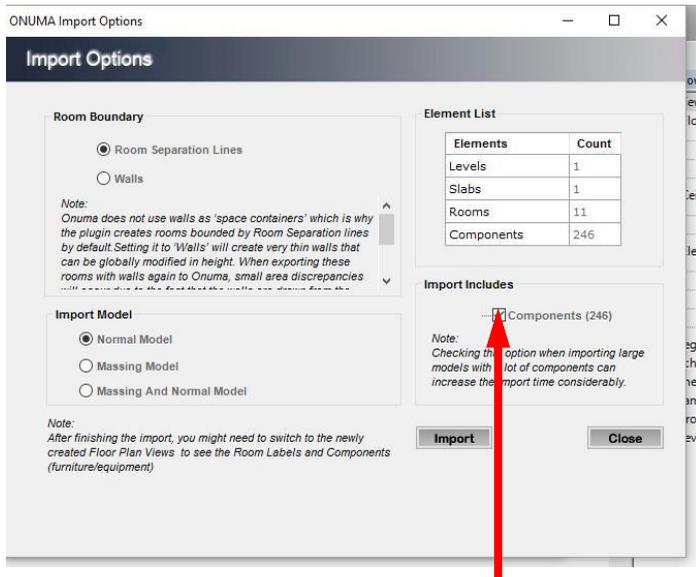


1. Download the SketchUp Plugin from the [Tools section in Program2BIM.com](#)
2. Follow the installation instructions to use the plugin
3. Import the BIMXML file into SketchUp with the menu command  
File > Import... > Format Onuma-BIMxml File



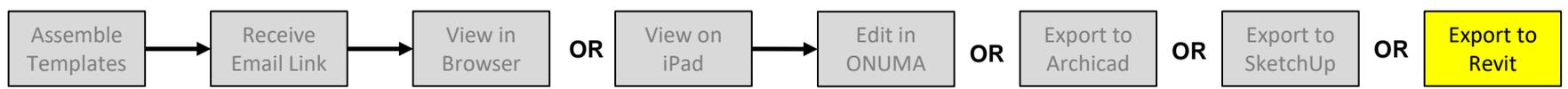
# Export of BIMXML to import into Revit

Use the ONUMA Plugins to import the exported BIMXML file(s) into the BIM Application



1. Import the BIMXML file into a new Revit file.  
If you exported each floor separately from ONUMA, you may import them all into the same Revit file thereby creating multiple levels in Revit for each floor (department).
2. Select the checkbox to include "Components"
3. Change the "Visibility/Graphics" for "EquipSpace"
4. Change the "View Range" to show objects mounted at a higher elevation.
5. Save the Revit file

Get the Plugin in the [Tool section of Program2BIM](#)



# Installation of Revit Plugin and MLSTD 1691 Library

Go to the Tools section on the Program2BIM website to download the ONUMA-Revit Plugin and the matching MLSTD 1691 library:

<http://program2bim.com/tools.html>

Follow these steps:

1. Download the Plugin and the MLSTD 1691 library
2. Close all running instances of Revit
3. Run the ONUMA-Revit Plugin installer.
4. Navigate to the plugin's library "LIB" - for example:  
C:\ProgramData\Autodesk\ApplicationPlugins\Onuma.bundle\2016\LIB\
5. Add the unzipped folder "MLSTD1691\_Revit2016" with the MLSTD 1691 families into the LIB folder.

Note: You might have to "show hidden files" (Control Panel > Appearance and Personalization) to be able to see the "ProgramData" folder.

