

## BIM Object Guide

Controllers

Version 1.0

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## Contents

- 1.0 Introduction
- 2.0 Adding BIM objects into Autodesk Revit
  - 2.1 Loading SE Controls Controller objects into Autodesk Revit projects
    - 2.1.1 OS2 SHEVTEC Controller
    - 2.1.2 OSLoop Controller
    - 2.1.3 SHEVTEC Control Panels
- 3.0 Properties
  - 3.1 COBie
  - 3.2 NBS\_General
  - 3.3 IFC
  - 3.4 Other (Manufacturer/Product Specific)

### 1.0 Introduction

SE Controls are committed to fulfilling the requirements of Level 2 BIM as mandated by the UK Government from April 4<sup>th</sup> 2016 for all centrally funded contracts. Furthermore we intend to produce high quality and fit for purpose content through our relationships with Architects, Specifiers & BIM end users by determining the specific requirements and issues they experience with BIM content & processes.

### 2.0 Adding BIM objects into Autodesk Revit

#### 2.1 Loading SE Controls Controller objects into Autodesk Revit projects

##### 2.1.1 OS2 SHEVTEC Controller

The SHEVTEC control panel can be fixed on walls, ceilings and floors but cannot be mounted upside down.

Once you have downloaded the BIM object you can load it into your project like any other generic family.

Go to "insert-->Load Family-->choose the downloaded family". Now you can find the controller family under "Electrical Equipment" family type in "Families" in the "Project Browser" window.

Drag and drop the controller as  shown (in the image:1 - Plan view) below.



Lock the controller position by aligning the controller face with the wall using align tool as shown below (image:2 - Plan view, image:3 - Right side view).



A maximum of 32 devices can be networked together any more than this will require expansion modules, please contact SE Controls for more details. The OS2 SHEVTEC Controller can be used for both environmental and Smoke ventilation, please see link for more information -

<http://www.secontrols.com/product-catalogue/controllers/os2-control-system/features/>

### 2.1.2 OSLoop Controller

The OSLoop control panel can only be fixed on walls.

A maximum of 16 OSLoop MCP's can be cabled in a loop from the control panel (Please see OSLoop MCP guide)

This type of panel can only be used for Smoke ventilation, please see link for more information -

<http://www.secontrols.com/product-catalogue/controllers/osloop-control-system/features/>



### 2.1.3 SHEVTEC Control Panels

After loading the object into a project you can click on the panel at this point the 'Properties' panel should appear on the left hand side of the screen, secondly select 'Edit Type' within the 'Type properties' window that appear, the user can modify the panel type needed.

The SHEVTEC control panel can be fixed on walls, ceilings and floors but cannot be mounted upside down.

A maximum of 32 devices can be networked together any more than this will require expansion modules, please contact SE Controls for more environmental and Smoke details. This type of panel can be used for both ventilation, please see link for more information - <http://www.secontrols.com/product-catalogue/controllers/os2-psu-30a-60a/features/>



## 3.0 Properties

### 3.1 COBie

Construction Operations Building Information Exchange (COBie) data is available for all SE Controls BIM objects. This data set forms a key part of Level 2 BIM requirements for UK Government contracts.

### 3.2 NBS\_General

NBS\_General data is available for all SE Controls BIM objects; this data set is a requirement of the NBS BIM Object Standard.

### 3.3 IFC

IFC data is available for all SE Controls BIM objects; IFC is an open-source data format that is fast becoming the industry standard for rich data exchanges.

### 3.4 Other (Manufacturer/Product Specific)

SE Controls has produced product specific data fields for information not applicable to other data sets such as COBie but still of importance to a BIM end user.