NBS National BIM Library

NBS BIM Shared Parameters in Revit

Version 2

19 July 2017

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Contents

1.0 Introduction

Autodesk Revit features a Shared Parameters capability that allows the use of parameters from a common source. Using shared parameters within your BIM objects authored in Revit ensures that your library of objects contains the same Parameters with consistent naming and data types. By using the NBS BIM Object Standard Parameters you're also ensuring that the BIM objects you create contain parameters that also align with the thousands of objects hosted on the NBS National BIM Library.

A Shared Parameters file is available from the NBS National BIM Library that includes all the parameters required to comply with the NBS BIM Object Standard, as well as the functional parameters used to create NBS objects. This Guidance Document is intended as a high-level overview to using the Shared Parameter file in the Revit Family Editor.

2.0 Associating the NBS Shared Parameters file with Revit

In Revit's Family Editor, on the Ribbon click the Manage tab > Settings Panel > Shared Parameters (Fig. 1).
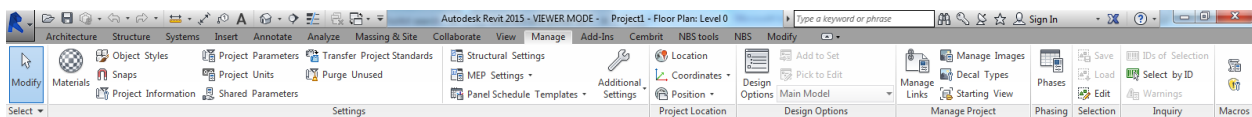

Fig. 1

In the resulting dialogue (Fig. 2), click Browse and locate and open the NBS BIM Object Standard Parameters text file that you have saved to your computer.
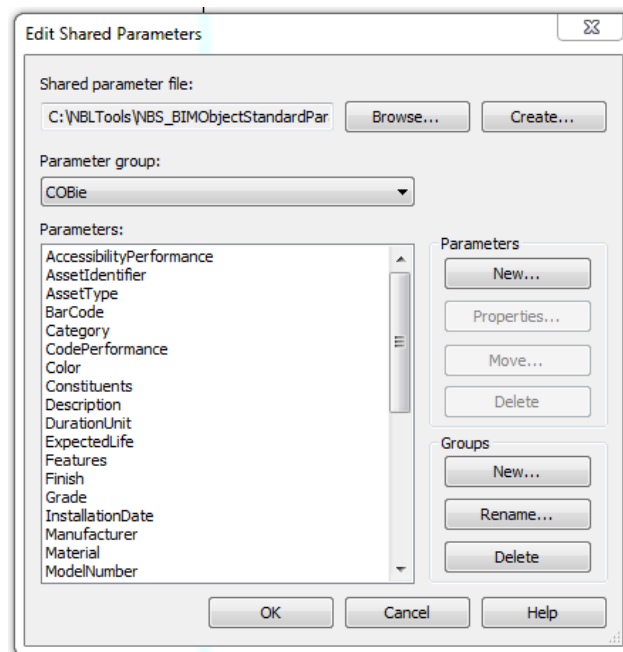

Fig. 2

Revit's Shared Parameters is now associated with this Shared Parameter file and will reference it when you attempt to load a Shared Parameter into a Revit Family.

3.0 Loading a Shared Parameter

Within Revit's Family Editor, on the Ribbon click Create > Properties > Family Types (Fig. 3)
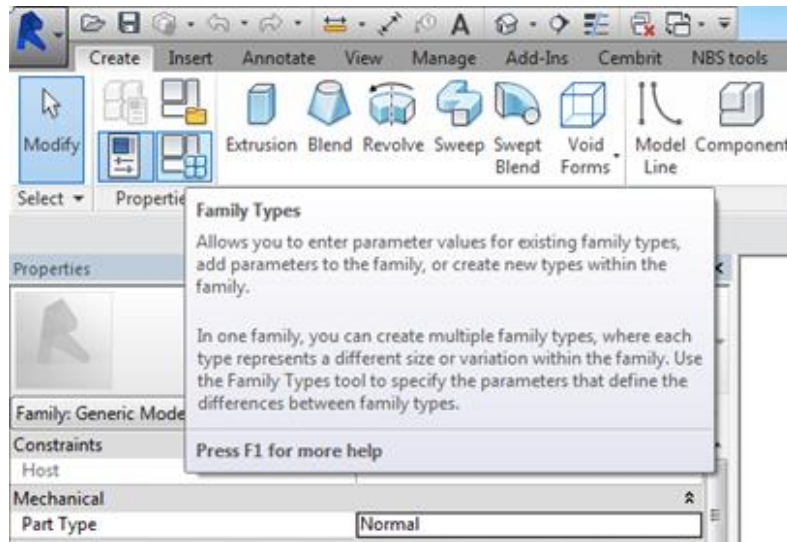

Fig. 3

The resulting dialogue displays all the Parameters currently recorded within the Family. Click Parameters > Add… (Fig. 4)
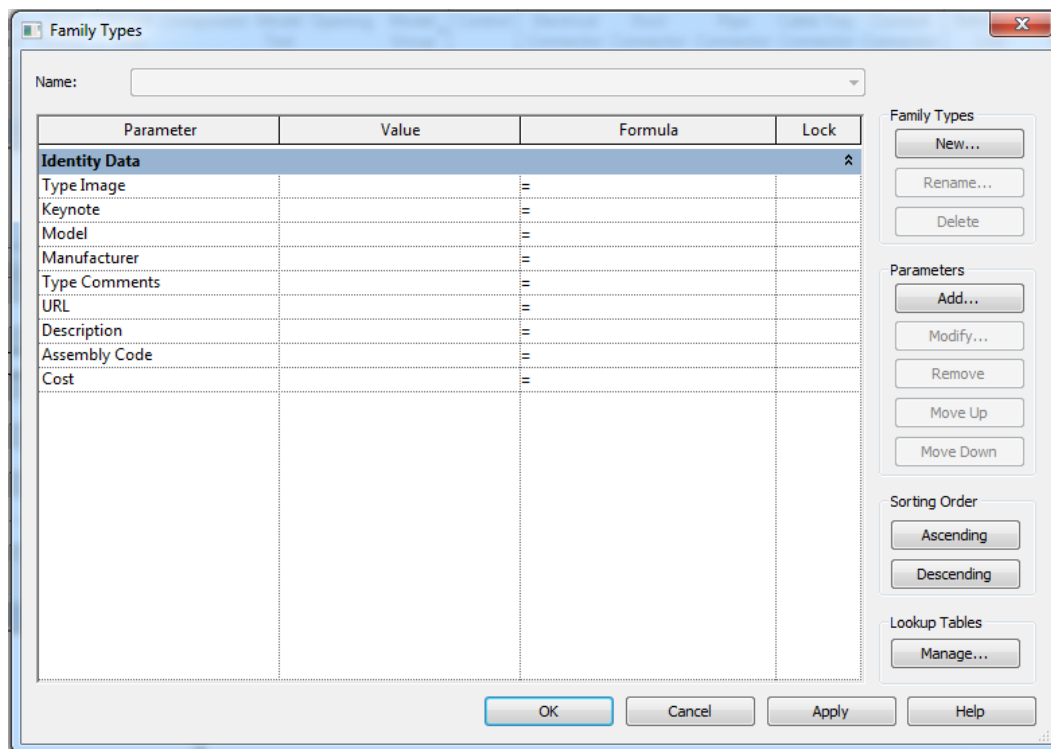

Fig. 4

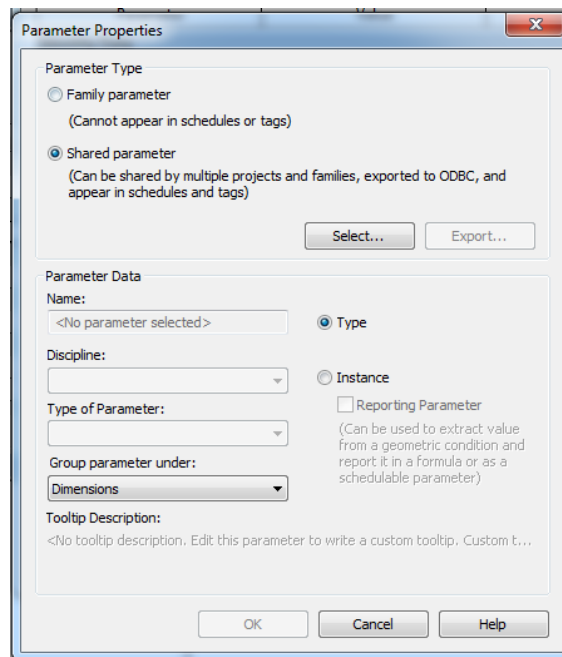In the next dialogue select Shared parameter, then click Select… (Fig. 5).

Fig. 5

Another dialogue displays The NBS BIM Object Standard Parameters, these are organised in Parameter Groups in line with section 2 of the NBS BIM Object Standard (Fig 6). The Parameter Groups with "_mtrl" appended are intended for materials included within layered BIM objects, and should not be added to component BIM objects being authored in Revit's Family Editor.
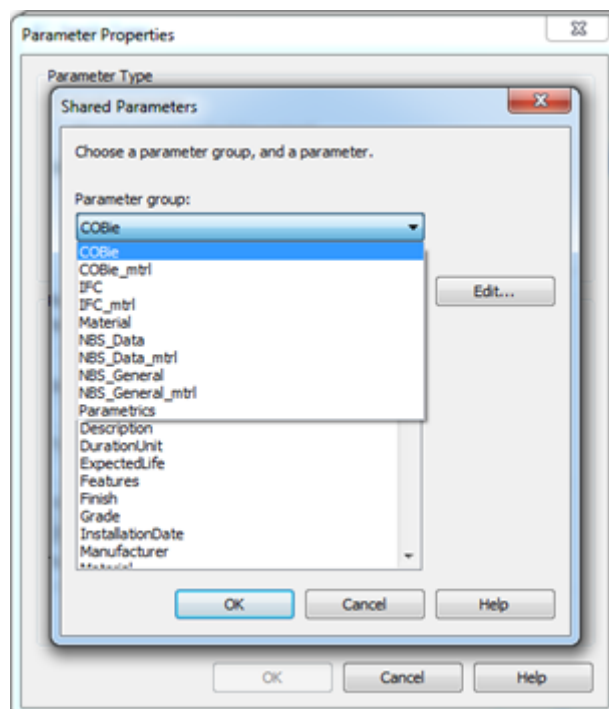

Fig. 6

Select a Parameter Group to update the list of parameters, and then select the Parameter you require and click OK. (Fig. 7)
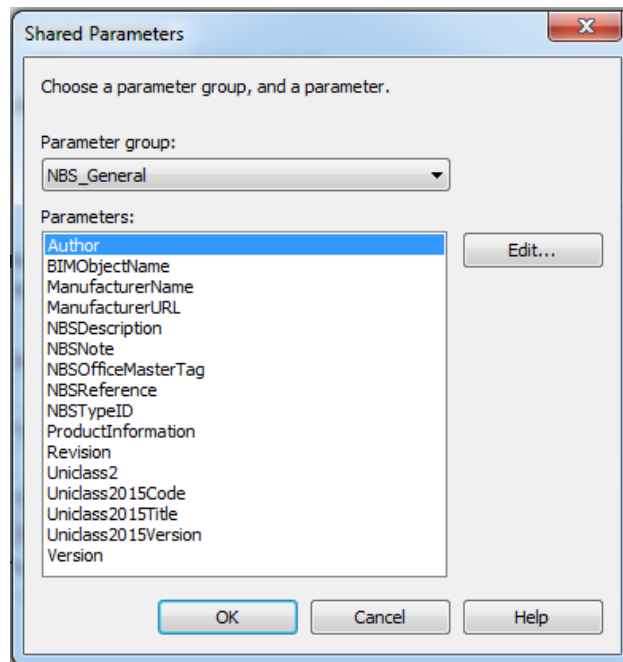

Fig. 7

Back in the Parameter Properties dialogue you next select whether the parameter should be Type or Instance, only those Parameters required by clause 2.6.2 of the NBS BIM Object Standard should be set to Instance (Fig. 8).
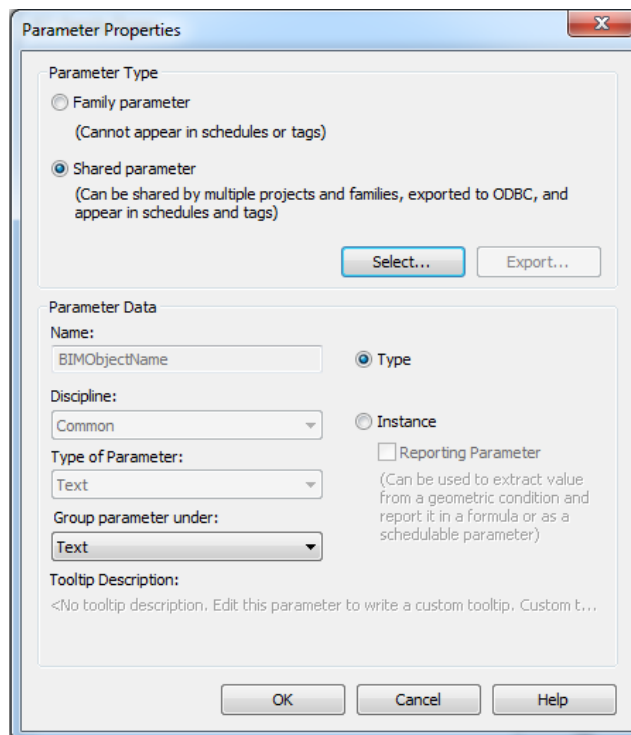

Fig. 8

Finally, clicking the dropdown under Group parameter under: displays a list of available Parameter Groups. The correct Revit Parameter Group can be determined by following clause 2.3.1 of the NBS BIM Object Standard (Fig. 9).
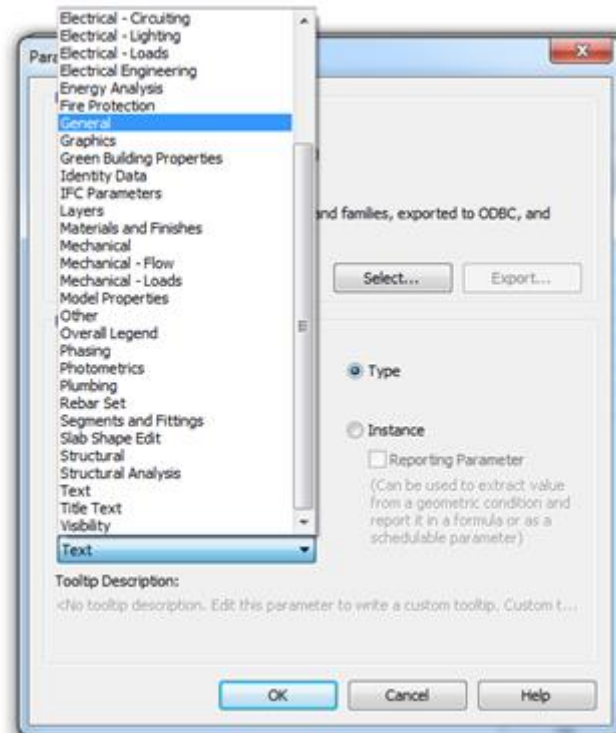

Fig. 9