



Geometry Requirements

BIM & Scan AutoCorr™ requires users to utilise proper modelling techniques. We have done our best to briefly explain the geometry requirements for BIM & Scan AutoCorr™ model input files. Files can fail when processing them with BIM & Scan AutoCorr™. File failures such as segmentation errors, etc. occur from not modelling the geometry properly or relying on third party geometric objects that were not modelled properly. Below are the ways to prevent errors such as these from happening.

BIM & Scan AutoCorr™ requires that all geometry conform to the IFC 2X3 TC1 Schema as an IFC2X3 CV2.0 MVD formatted STEP Physical File, i.e. ".ifc" (<http://www.buildingsmart-tech.org/ifc/IFC2x3/TC1/html/index.htm>). We do not simply say .ifc nor IFC File because this is technically wrong, and we are trying to help prevent users from using the wrong schema and Model View Definition (MVD) when wanting to utilize BIM & Scan AutoCorr™.

Geometry should also be modelled technically correct, e.g. there should be no flipped faces, gaps between edges, or holes in the geometry. One can prevent this from being problematic using BIM & Scan AutoCorr™ by assuring all model objects are "capped". For further demonstration see: [BIM & Scan AutoCorr™ Modelling Guide Capping Holes 3DS Max.pdf](#)

Issues in relation to models that are not capped causing segmentation errors when being processed by BIM & Scan AutoCorr™, usually only occur when 3rd party BIM object are introduced and exported by native BIM environments such as Revit® and ArchiCAD®. Best practice in this regard is to use native BIM objects and only make your BIM objects in the tool you want to export from. For example, use ArchiCAD® GDL object creation methods afforded by ArchiCAD® when wanting to make your own BIM objects.