RvtLock3r End User Help Documentation

(obsolete online draft)

Currently, Revit does not provide any built-in functionality to prevent the user from modifying parameter values. RvtLock3r is a Revit add-in that you can use to verify whether parameter values have been changed.

There are two types of end users for RvtLock3r:

- Vendor: the provider of a set of elements with protected properties
- Consumer: the consumer of these elements to create a model

The vendor defines the BIM elements properties they want to protect, also known as *ground truth*.

They make use of two external commands in the Revit ribbon tab *Lock3r* in the panel *Validation*:

- Ground Truth: this command generates the ground truth data and saves it in the Revit BIM.
- Validate: this command checks if any protected properties have been modified.

The validation command runs successfully and completes silently with no error if the model is in its original state and no protected parameter values have been modified. In case any of the protected properties were modified, it returns an error code with a message and a list of element ids of the modified elements:

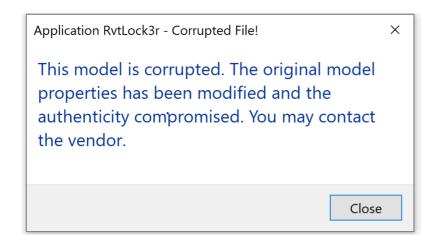
Messages Error (must be addressed in order to continue) Protected model paramaters have been altered! Error 1 Type: Walls: Basic Wall: A206A167 (EN): id 314057	 Error (must be addressed in order to continue) Protected model paramaters have been altered! Error 1 				
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Show More Info Evnort Collanse		Show	More Info	ynort	Collanse <<

[∂] Consumer

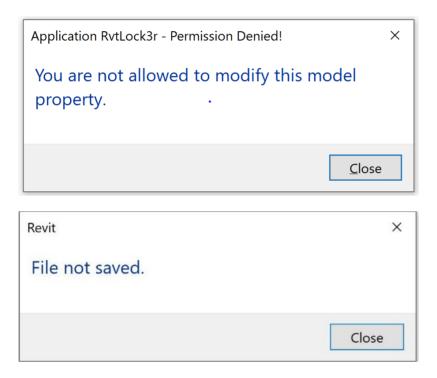
The consumer makes use of the elements equipped with the veendor's read-only properties. They can interact with the model however they wish. The interaction is based on trust that they will not interfere with the protected properties. The consumer will see a warning message from RvtLock3r in the following two scenarios:

- · Opening a model containing modified properties
- Saving a model containing modified properties

Open: On opening a model containing modified properties from whichever source, an informational message is displayed to inform the user that the protected properties have been tampered with. They may choose to proceed with the tampered model or contact the vendor for the original data.



Save: During interaction with the model, the consumer may intentionally or unintentionally modify a protected property. In that case, when saving the model, an informational message is displayed informing the user that the property is readonly, and they are not allowed to modify it.



In case the consumer decides to close Revit with open unsaved modifications, a message is displayed asking whether to save or not:

