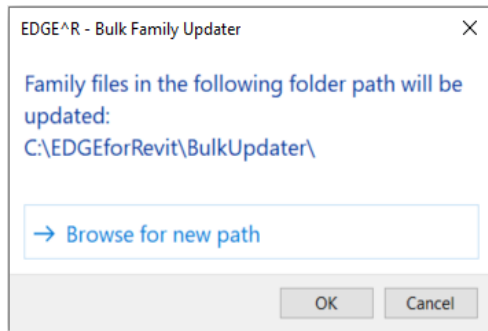
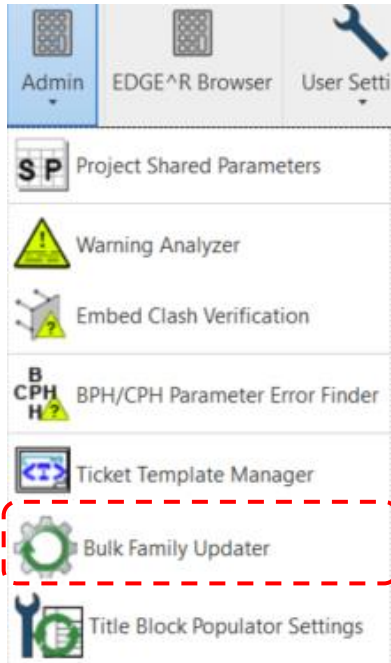


Admin Tools: Bulk Family Updater



Programmed Result of Tool:

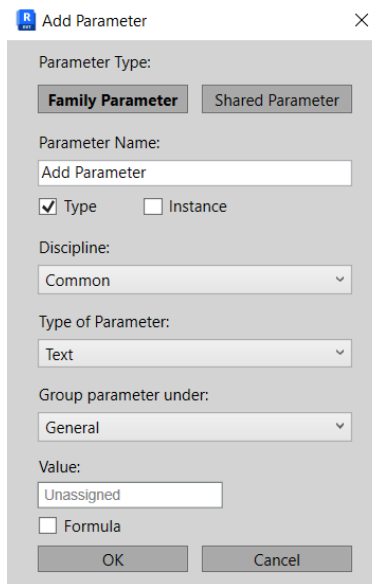
This tool will automatically draw dimension lines (called "EdgeDimLines") for all families in a predetermined folder. These dimension lines are necessary for the Ticket Auto Dimension and Auto Ticket Generation tools to function properly. In addition to adding EdgeDimLines, this tool can be used to add, modify, and delete many parameters from multiple families at once.

Steps to Perform Tool Operation:

- 1) The user will place all the families to be updated in their preferred folder path. The default folder path is C:\EDGEforRevit\BulkUpdater, but users can browse and select a new folder path if desired.
- 2) User then runs the Bulk Family Updater tool located in the Admin tab. This tool can be run from a project or a family file.
- 3) Select the folder path containing the family files to be updated and click OK. The user may set the chosen folder path to be the default folder path for the project for future use of the tool. This option will not be available if the user runs the Bulk Family Updater from a family file.
- 4) The user can add, modify, and delete parameters and/or add EDGE dim lines to a family.
- 5) To add EDGE dim lines, the user must check the Add EDGE Dim Lines check box and click OK.
- 6) All tasks will be shown on the main window before being processed.

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Adding Parameters:



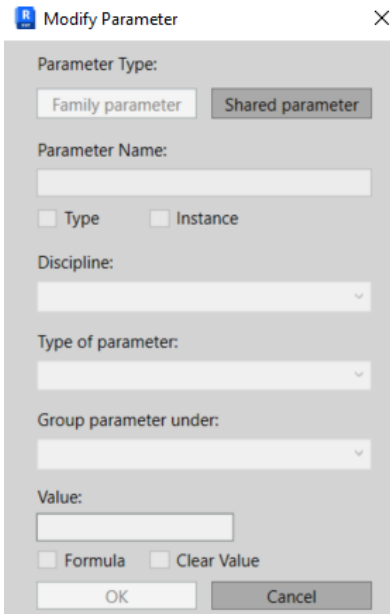
The screenshot shows a dialog box titled "Add Parameter" with a close button (X) in the top right corner. The dialog is divided into several sections:

- Parameter Type:** Two buttons are present: "Family Parameter" (which is highlighted) and "Shared Parameter".
- Parameter Name:** A text input field containing the text "Add Parameter".
- Type:** Two checkboxes: "Type" (checked) and "Instance" (unchecked).
- Discipline:** A dropdown menu showing "Common".
- Type of Parameter:** A dropdown menu showing "Text".
- Group parameter under:** A dropdown menu showing "General".
- Value:** A text input field containing "Unassigned".
- Formula:** A checkbox that is currently unchecked.
- Buttons:** "OK" and "Cancel" buttons are located at the bottom of the dialog.

- When adding a family parameter, the user can type in the parameter name and choose the Discipline and Type of parameter.
- The Shared Parameter button loads in all parameters located in the user's shared parameter file. Once a parameter is selected, Discipline and Type of Parameter will autofill (these fields will not be editable for shared parameters).
- The user may add a value or click the formula check box and enter a valid formula. This field can't be left blank if the formula check box is checked. The value field can be left empty and will assign a null value if left empty.
- Adding a parameter with a matching name, type, and discipline of a parameter present in a family will modify the existing parameter.
- Parameter Name, Type/Instance, Discipline, Type of parameter, and Group parameter under must all be filled in to proceed to the next step of adding the parameter.
- Adding a parameter that already exists within a family to be updated will result in the parameter being updated to match what was defined for the added parameter.

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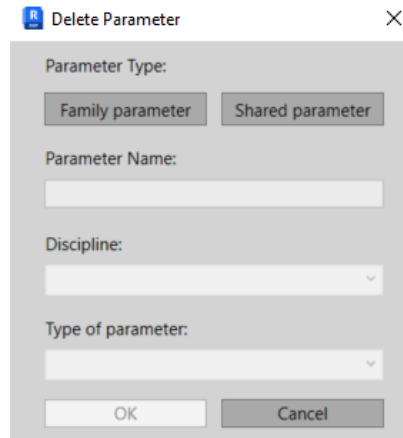
Modifying Parameters:



- The user must open a family in Revit to make the Family Parameter button available. Once the Family Parameter button has been clicked, the Bulk Family Updater loads in all the family parameters that are present in the active family (this list will not include shared parameters).
- The Shared Parameters button loads in all parameters in the user's shared parameters file. A shared parameter's name, type, and discipline can't be modified.
- Leaving the Parameter Name, Type/Instance, Group parameter under, and Value fields empty will result in the values of those being unchanged from what they are currently set to in the families to be updated.
- A change must be made to the selected parameter to proceed to the final window.
- When modifying what a parameter is grouped under, the Bulk Family Updater deletes the parameter and recreates it under the new group. If within the family to be updated, the parameter to be modified is linked to a dimension, is configured to control another parameter value, or defines any constraints, then those associations may be lost when the parameter is regenerated.
- Modifying a parameter that is not present in the family will result in a failed task for that specific family. The user will be warned of the error in the transaction report.
- The value field is the component of Revit built-in parameters that can be modified. All other fields will be uneditable.

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Deleting Parameters:

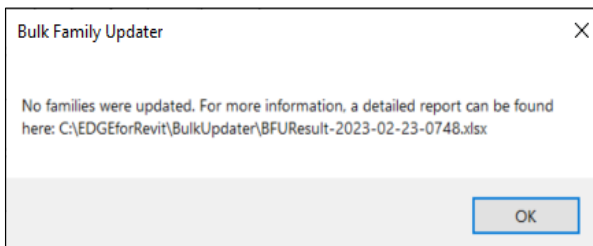
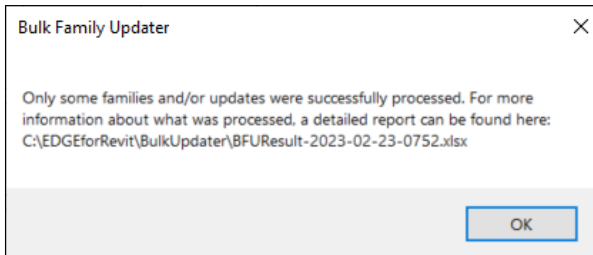
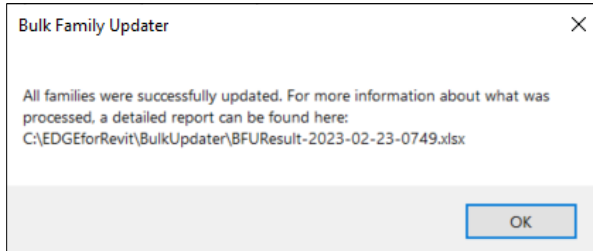


The screenshot shows a dialog box titled "Delete Parameter" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Parameter Type:** Two buttons, "Family parameter" and "Shared parameter".
- Parameter Name:** A text input field.
- Discipline:** A dropdown menu.
- Type of parameter:** A dropdown menu.
- Buttons:** "OK" and "Cancel" buttons at the bottom.

- To delete a family parameter a family must be open. The Bulk Family Updater loads in all the family parameters that are present in the active family (this list will not include shared parameters or Revit built-in parameters).
- Revit built-in Parameters can't be deleted from families.
- Deleting a parameter that is not present in the family will result in a failed task for that specific family. The user will be warned of the error in the transaction report.

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Final transaction report:

- Once the tool has finished processing all tasks, a final window will appear informing the user if all, some, or none of the families were successfully updated.
- A more detailed report of what tasks passed or failed and why will be saved to an Excel file. The Excel file will be saved to the folder path chosen at the start of the command defining where the families to be updated are located.
- In the Excel report each task will be labeled with success, fail, or warning.
- For warnings and failures, a description of what caused that outcome will be listed in the "Message" column.
- For successful tasks, the report will inform the user of what the parameters were updated to.

Known Limitations:

- This tool will add EdgeDimLines for nested families only if the family's MANUFACTURE_COMPONENT is CONNECTION. If the nested family does not have this as the MANUFACTURE_COMPONENT, then EdgeDimLines will only be added to the top level family and not added to any of the nested families.
- When modifying Revit built-in parameters, the only field that will be modifiable is the value field.
- A value can't be added or changed for fill pattern type parameters.
- Modifying what a fill pattern type parameter is grouped under will cause the fill pattern to lose its value.
- The user can't perform multiple tasks on the same parameter in the same session.
- When adding, modifying, or deleting parameters, only the top-level family will be processed. Nested families will not be processed by the tool.
- Units displayed for the value field will correspond to the units defined within the project or family file that was active when the Bulk Family Updater was run.