

Ticket Tools: Clone Ticket



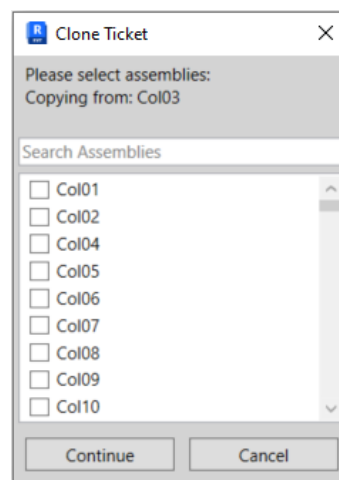
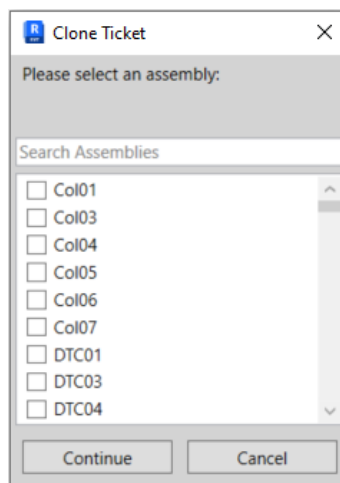
Programmed Result of Tool:

The Clone Ticket tool replicates the format and style of a preexisting shop ticket for another assembly. View, view location, view rotations, bill of material schedules, sheet annotations, view annotations, dimensions, callouts, and title block information will be created based on a preexisting ticket.

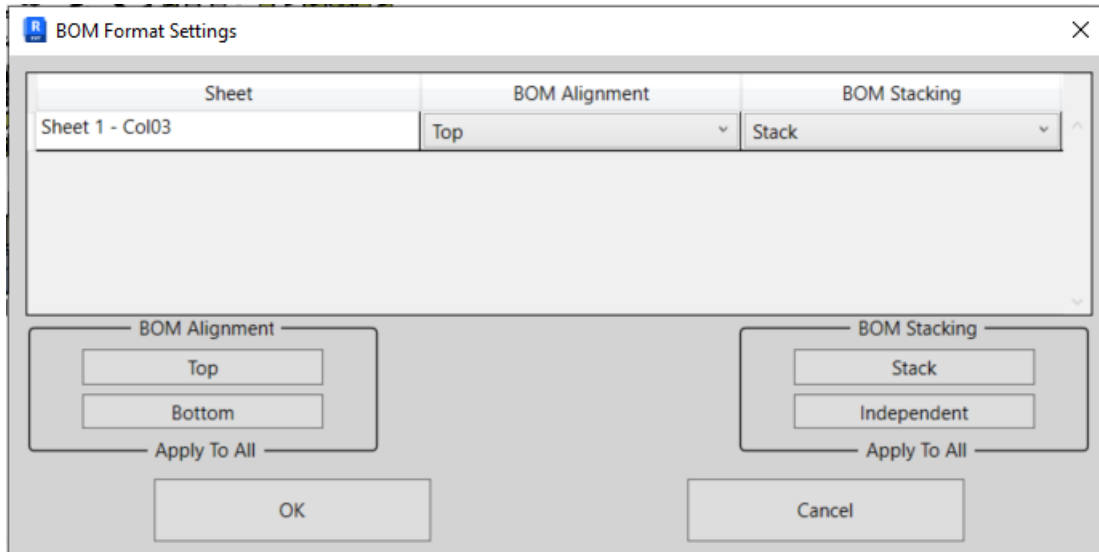
Steps to Perform Tool Operation:

The tool will create shop tickets for an assembly that is based on existing shop tickets associated with a selected assembly.

- 1) User clicks the Clone Ticket icon.
- 2) User selects the source assembly.
- 3) User selects the assemblies that the tool will create new shop tickets for.
- 4) Select BOM Alignment and BOM Stacking settings for each sheet associated with the source assembly.
- 5) The tool creates the new tickets.



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Views:

- Clone ticket will recreate views present in the original sheets and place them in the same position relative to the title block.
- The tool will create the corresponding default view as if the user created it manually in Revit like the Auto Ticket Generation tool if the view contains the following in its name: ELEVATION TOP, ELEVATION FRONT, ELEVATION BACK, ELEVATION LEFT, ELEVATION RIGHT, ELEVATION BOTTOM, DETAIL SECTION A, DETAIL SECTION B, PLAN DETAIL, 3D ORTHO.
- If the view is custom and does not follow one of these naming conventions the tool will recreate the view and adjust the view to match the angle and perspective of the original. Clone ticket will name it the same as the original or increment the name if the assembly already has a view by that name.

Title Block Populator:

- If they appear in the Title Block Populator Settings, the Clone Ticket tool will use the Ticket Title Block Populator tool to populate the parameters on the newly created sheet.
- The user will have to use a title block family that correctly references parameters on the sheet for the parameter values to appear on the title block. The tool will set the parameter values regardless.
- The tool will copy the parameter value from the source sheet if a parameter has not had a parameter designed. Note that a parameter can be assigned a blank or zero value by the user or other EDGE tools and add in software tools.

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Legends and Annotations:

- Clone Ticket will copy annotations present in the views and the ticket from the original to newly created views and tickets.
- The tool will not copy append strings that were created using one of the EDGE ticketing tools.
- The tool will do the same for legends except for End Pattern, Strand Pattern, and Reinforce Pattern legends. The tool will detect if a strand pattern template or a legend that follows the naming convention used to place legends with Auto Ticket Generation. If a corresponding legend for the assembly selected exists, the tool will place it.

BOM Schedules:

- Clone Ticket will use the Ticket BOM Settings to place schedules either by matching schedule template names or by matching the schedule template to schedules placed on the sheet using the correct naming convention with the correct suffix. The tool will then create a schedule from that template or place a schedule that already exists with the correct name.
- If the name of the schedule does not match any in the Ticket BOM Settings but contains a filter for Construction Product Host, the tool will create a new schedule that matches the original, but the filter will look for the Construction Product Host matching the target assembly.
- If the name of the schedule does not match any in the Ticket BOM Settings, and the schedule does not have a Construction Product Host filter, the tool will ask the user if they wish to place the same schedule from the original in the new ticket or not.
- The tool will determine whether to place the schedules stacked or independent and if they are aligned top or bottom. For more information about BOM placement, please consult the Auto Ticket Generation tool help file.

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Dimensions:

- The tool will attempt to replicate dimensions present in the views on the original sheets.
- The dimensions will be created using the same dimension family and type as the original dimension on the source sheet.
- If the original dimension does not contain any non-structural framing elements, the tool will match the dimension references based on the exact location (using same point tolerance in Ticket and Dimension Settings) measured from the top left of the structural framing element in the view in the relevant direction. This means that if it is a horizontal dimension, it measures distance from the left side of the piece and does not take vertical position into account. The exception to this would be that the tool will detect if the reference is to one of the extents at each end of the structural framing element. The tool will detect that and dimension to the extent in the target. The tool uses this method for determining the location of all references and elements within the view.
- The tool will group non-structural elements that are dimensioned into categories or types by the control mark and LOCATION_IN_FORM parameter. If there is no control mark, the tool will use the family name. It then groups them further based on their location in the newly created view divided by two sides of the structural framing element along the midpoint of the structural framing element parallel to the dimension. If the non-structural framing element touches that midpoint, it is on both sides, unless all other instances are on the midpoint or fully on one side. Then, the tool will treat all the non-structural framing elements of that category to be on the one side that the instances exist fully within.
- If all the elements of a type are dimensioned to in the source, then all instances of an element of that type will be referenced in the target.
- If only elements in one of the halves are dimensioned in the source and there are elements in the other half that are not referenced, then only instances in the half that are dimensioned in the source will be dimensioned in the target.
- If there are any non-structural framing elements that do not exist in the source assembly in one of the two halves but exist in the target assembly, Clone Ticket will create dimensions for them using the same method as the Auto Ticket Generation tool. Please consult the Auto Ticket Generation help file for more information.
- If a dimension has references to more than one type of non-structural framing element, the tool will designate one element type as the majority type. This will be the element type that has more instance references. The tool will then match the references to instances of elements in the target views that are the closest to the location in the original, if not all majority types in that half of the view are referenced. If all elements of that type in a half of the view are referenced, then all elements in that half of the view will be dimensioned. The non-majority element instances must match the location within tolerance in the target and source to be dimensioned.
- All references to non-structural framing elements will be to Edge Dim Lines and not to any of the other element geometry. The tool will not try to clone any references to non-structural framing element geometry.

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Ticket and Dimension Settings

Auto Ticket Generation Ticket Auto-dimension Erection Drawing Auto-dimension Clone Ticket Hardware Details

Same Point Tolerance

Set the desired tolerance for location matching

Same Point Tolerance ft in

Apply Settings

Callouts:

- The tool will attempt to replicate any callouts that are present in the original views.
- The tool will match elements between the original and the target using the control mark and location in form. It will fall back to the family name if the element does not have a control mark.
- The tool will callout the element of the same type that is closest to the same location in the original view.
- If the newly created assembly view contains elements of a type that are not present in the tool, it will use the auto ticket callout settings and rules to determine if and where a callout for that element will be placed.
- Any elements that would not be called out by the Auto Ticket Generation tool, like raw consumables or connector components, will not be called out by Clone Ticket.
- The tool will determine placement of callout tags that are within the structural framing element in the source based on distance and direction from the element being called out.
- Otherwise, the tool will place the callout at the same location in the target view but will adjust to maintain same distance from the edge of the structural framing element.
- Clone ticket will also replicate leader placement relative to the element being referenced if the leader is free end and will set the leader as attached if the source callout is attached.