

Create Formulas


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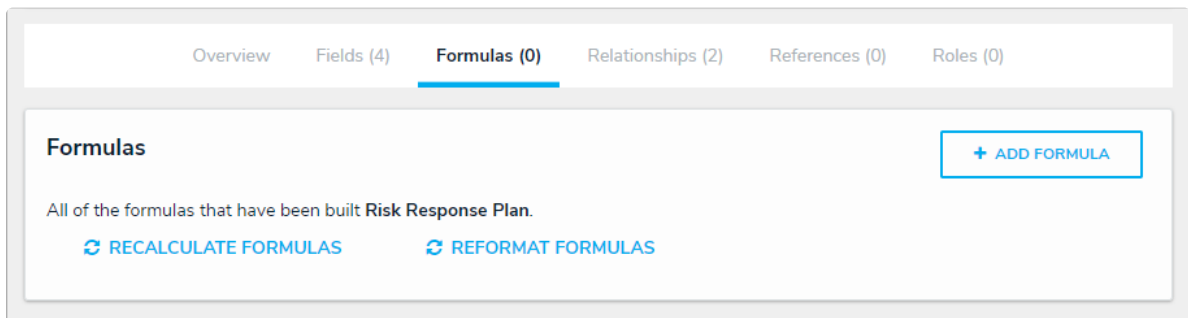
The formulas discussed below are basic and show both the number of risks and the maximum residual impact value from all risks related to the plan. For more detailed information, see the [Formulas](#) section and the [Variables, Operators & Functions](#) article in the **Resolver Core Administrator's Guide**.

Risk Impact

This formula uses a Residual Impact formula on the the **Risk** object type. Other options include Residual Risk Score, Inherent Risk Score, Inherent Impact, or any other variable used for scoring your risks. If this variable type does not already exist, see the [Add Fields to an Object Type](#) article for instructions on adding it to the **Risk** object type.

To create a Risk Impact formula on the Risk Response Plan object type:

1. Click the  icon in the top bar > **Object Types** in the **Data Model** section.
2. Begin typing **Risk Response Plan** in the search field, then click the object type to open the **Edit Object Type** page.
3. Click the **Formulas** tab > **Add Formula**.



The Formulas tab.

4. Enter **Risk Impact** in the **Name** field.
5. Click **Create**.
6. Click the new formula to open the **Edit Formula** palette.
7. Click **Add Variable**.
8. Select **Relationship** from the **Variable Type** dropdown menu, then select the **Risks** relationship.
9. Select **Residual Impact** from the **Available Components** dropdown menu.
10. Ensure **Array** is selected in the **Sub Type** dropdown menu and the name of the variable is **RES_IMPACT**.
11. Select the **Treat empty values as Null** checkbox.

Name

VARIABLES

Variable Type **Relationship**

Available Components

Sub Type

Name

Description

Treat empty values as Null

A new variable on the Risk Impact formula.

12. Click **Create**.
13. Enter **MAX(RES_IMPACT)** in the **Formula** field.
14. Leave **None** selected in the **Format** dropdown menu and select **Label** in the **Range as** dropdown menu.
15. Create max values labels and ranges that match the Residual Impact variable used in the formula. In this case, the Residual Impact is measured on a scale of 1-5.

FORMULA

MAX(RES_IMPACT) [Refresh]

DISPLAY

Format **Range as**

None ▾ Label ▾ [Refresh]

Low (green circle)
everything up to, and including, 1 [Edit] [Delete]

Moderate (light green circle)
above 1; up to, and including, 2 [Edit] [Delete]

High (yellow circle)
above 2; up to, and including, 3 [Edit] [Delete]

Significant (orange circle)
above 3; up to, and including, 4 [Edit] [Delete]

Critical (red circle)
above 4; up to, and including, 5 and above [Edit] [Delete]

[ADD LABEL](#)

The Display section of the Edit Formula palette.

16. Click the **X** at the top-right of the palette to close it when finished.

Number of Related Risks

For this formula, it's recommended an existing select list is used, such as Inherent Impact, Inherent Likelihood, Residual Impact, etc.

To create a Related Risks formula on the Risk Response Plan object type:

1. From the **Formulas** tab for the **Risk Response Plan** object type, click **Add Formula**.
2. Enter **Number of related risks** in the **Name** field.
3. Click **Create**.
4. Click the new formula to open the **Edit Formula** palette.
5. Click **Add Variable**.
6. Select **Relationship** from the **Variable Type** dropdown menu, then select the **Risks** relationship.

7. Select a relevant select list field from the **Available Components** dropdown menu.
8. Select **Count** from the **Sub Type** dropdown menu.
9. Ensure the name of the variable is **COUNT**.
10. Select the **Treat empty values as Null** checkbox.

Name

Number of related risks

VARIABLES

Variable Type Relationship

Relationship Risks

Available Components

Count

Sub Type

Array

Name [?]

COUNT

Description

Treat empty values as Null

CANCEL

The Details section of the Edit Formula palette.

11. Click **Create**.
12. Enter **COUNT** in the **Formula** field.
13. Select **None** in the **Format** and **Range as** dropdown menus.
14. Click the **X** at the top-right of the palette to close it when finished.