

Time Formula Functions

Last Modified on 04/05/2024 3:56 pm EDT

Overview

The **timeDiff** and **timeOffset** functions use date-related data to perform a calculation or task. These functions do **not** require multiple values and do not require relationships, reference variable types, or data from more than one field or formula.



Warning:

Formulas do not calculate automatically on their own. A formula will re-calculate whenever a variable referenced by the formula changes in value.

timeDiff

The **timeDiff** function returns differences between two dates using **Date & Time** variables or a **Date & Time** variable and the **today** function in seconds, days, or hours.

Example: Using the dates May 15, 2018 (variable A) and May 14, 2018 (variable B), this function could return the following:

Unit of Time	Formula	Results
Seconds (default)	timeDiff(A,B)	86400
Hours	timeDiff(A,B,"hours")	24
Days*	timeDiff(A,B,"days")	1
Today's Date	timeDiff(today(),B,"days")	1

^{*} The Days formula can only be used as a workflow condition, not with forms, as the formula does not auto-update.

timeOffset

Time field variable. The function returns results in Unix (epoch) timestamp format (e.g., May 2018 = 1525132800). For further information, see the Converting Unix Timestamp Format to Standard Date Format section or Contact Resolver Support for additional information.

Example: Using May 15, 2018 (variable A) as an example, this function could return the following:



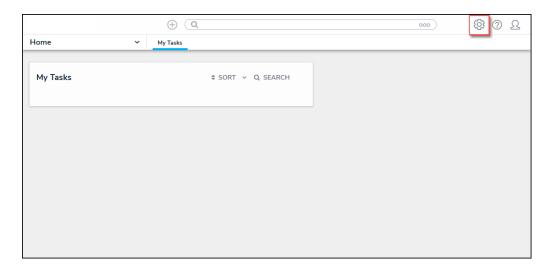
Unit of Time	Formula	Results	
Seconds	timeOffset(A,86400,"seconds")	1526495700 (May	
		16, 2018)	
Days*	timeOffset(A,2,"days")	1526582100 (May	
		17, 2018)	
Months	timeOffset(A,1,"months")	1529087700 (June	
		15, 2018)	
Days* (Subtracted)	timeOffset(A,-3,"days")	1526150100 (May	
		12, 2018)	
* The Days formula can only be used as a workflow condition, not with			
forms, as the formula does not auto-update.			

Formulas can display dates using date formats. Existing formulas will need to be updated to date to display dates using date formats instead of Unix code.

Converting Unix Timestamp Format to Standard Date Format

You can convert and display the **timeOffset** value from Unix Timestamp format to standard date format.

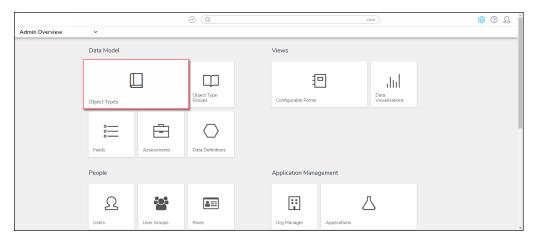
1. From any of the main *Resolver* screens, click the **System** icon in the top right-hand corner of the screen.



System Icon Location

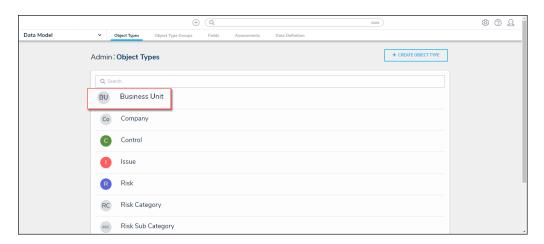
 From the Administration Overview screen, select the Object Types tile from the Data Model section.





Administration Overview

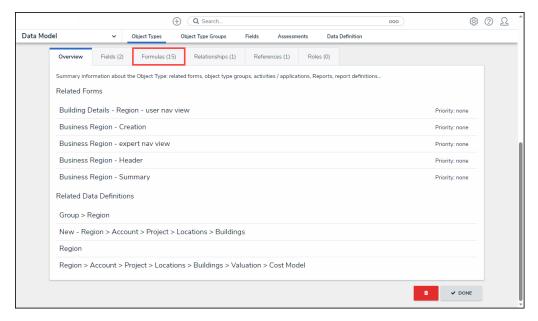
- 3. From the *Object Types* screen, search for an existing **Object Type**.
- 4. Click on an **Object Type** name to open the *Edit Object Type* screen.



Click on an Object Type Name

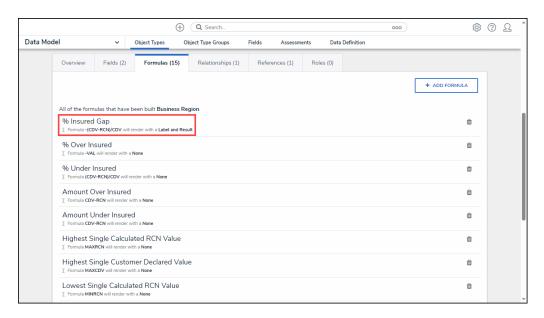
5. Scroll to the bottom of the screen and select the *Formulas* tab.





Formulas Tab

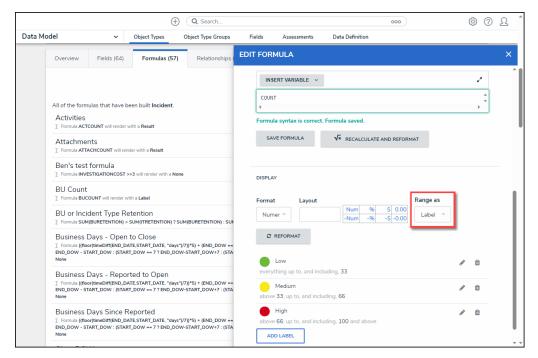
6. Click on a Formula name.



Formula Name Link

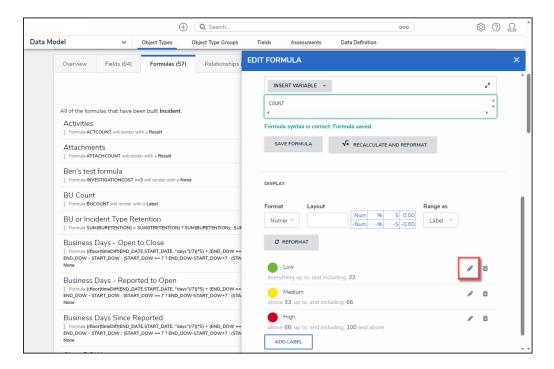
7. From the *Edit Formula* screen, scroll to the *Display* section and select **Label** from the **Range as** drop-down list.





Select Label from the Range As Field

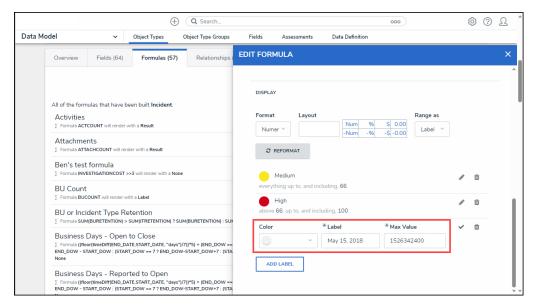
8. Click on the **Edit** icon next to the first entry.



Click on the Edit Icon

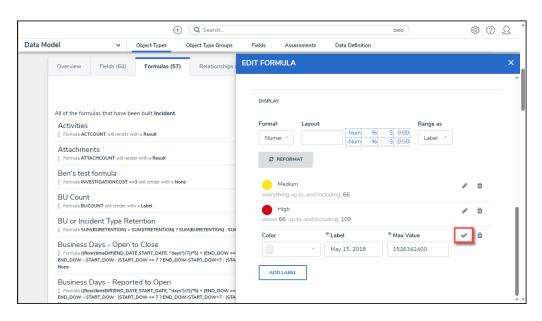
- 9. Delete the code from the **Color** drop-down field.
- 10. Enter the date using the **Standard Date** format in the **Label** field.
- 11. Enter the date using **Unix Timestamp** format in the **Max Value** field. A **Unix Timestamp** records the date in seconds.





Filled Out Display Fields

12. Click on the **Checkmark** icon to save the formula's display settings.



Checkmark Icon