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## Boolean Extended Attributes



## Overview

A new extended attribute type of Boolean has been added. Boolean attributes can be rolled up during formulation. The roll up behavior can be set on the attribute template.

## The Basics

The Boolean attribute displayed in consumption, with optional text:

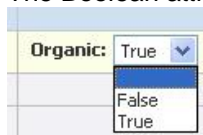


Figure 1. Boolean attribute

A Boolean attribute is created like any other extended attribute. Once on the extended attribute template in ADMN, select Boolean as the attribute type. Once Boolean is selected the following fields are available:

Type: Boolean ▼

Display Text:

Default State: False ▼

Rollup Behavior: Rollup as true if All items are true ▼

Figure 2. Extended attribute template

**Display Text** – This is the text that is displayed next to the dropdown in consumption. This field is optional. When left blank, only the dropdown will be displayed in consumption.

**Default State** – This is the value the dropdown is set to when the attribute is added to the specification. There are 3 states for the Boolean attribute: True, False and Null.

**Rollup Behavior** – This field defines the rollup behavior of the attribute during formulation. There are two options, Rollup as True if all items are true and rollup as true if one item is true. See the following rollup examples:

### Rollup as True if all are True

The following inputs are added to a formulation specification “Lemonade”:

INPUT	
Sugar	Organic = True
Water	Organic = True
Lemon Juice	Organic = False

In the previous table, the lemonade produced by the formulation specification would include the extended attribute/value pair of Organic = False. This happened because the Lemon Juice input was not organic. If all inputs were marked as true the output's extended attribute would be Organic = True.

Rollup as True if one is True

The following inputs are added to a formulation specification "Lemonade":

INPUT	
Sugar	Genetically Modified = False
Water	Genetically Modified = False
Lemon Juice	Genetically Modified = True

In the previous table, the lemonade produced by the formulation specification would include the extended attribute/value pair of Genetically Modified = True. This happened because the Lemon Juice input was genetically modified. If all inputs were marked as true the output's extended attribute would be Genetically Modified = False.

## Allowing Nulls

Null values are either ignored during rollup as if they did not exist in the set or stop the rollup action. This will all depend on if you select "Allow Nulls" or "Do Not Allow Nulls" inside the extended attribute listing on the output popup.



Figure 3. Null values

**Note:** An extended attribute is considered Null if the attribute does not exist on the input or if the attribute does exist and no value is set.

For example, if you have "allow null" selected in the following example, the result would still be True. However if you selected do NOT allow null then nothing would appear in the "Theoreticals" column:

INPUT	
Sugar	Genetically Modified = False
Water	Genetically Modified = BLANK (OR the Genetically Modified EA doesn't exist)

Lemon            Genetically Modified = True  
Juice

---

## Printing and Searching

Boolean attributes can be searched and printed and are available everywhere other extended attributes are supported.

## Calculated Extended Attribute

Boolean attributes can be referenced by calculated extended attributes. An integer that represents the selected value will be returned: 0 is false, 1 is true, -1 if not set.



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