Metric collection for Parameters

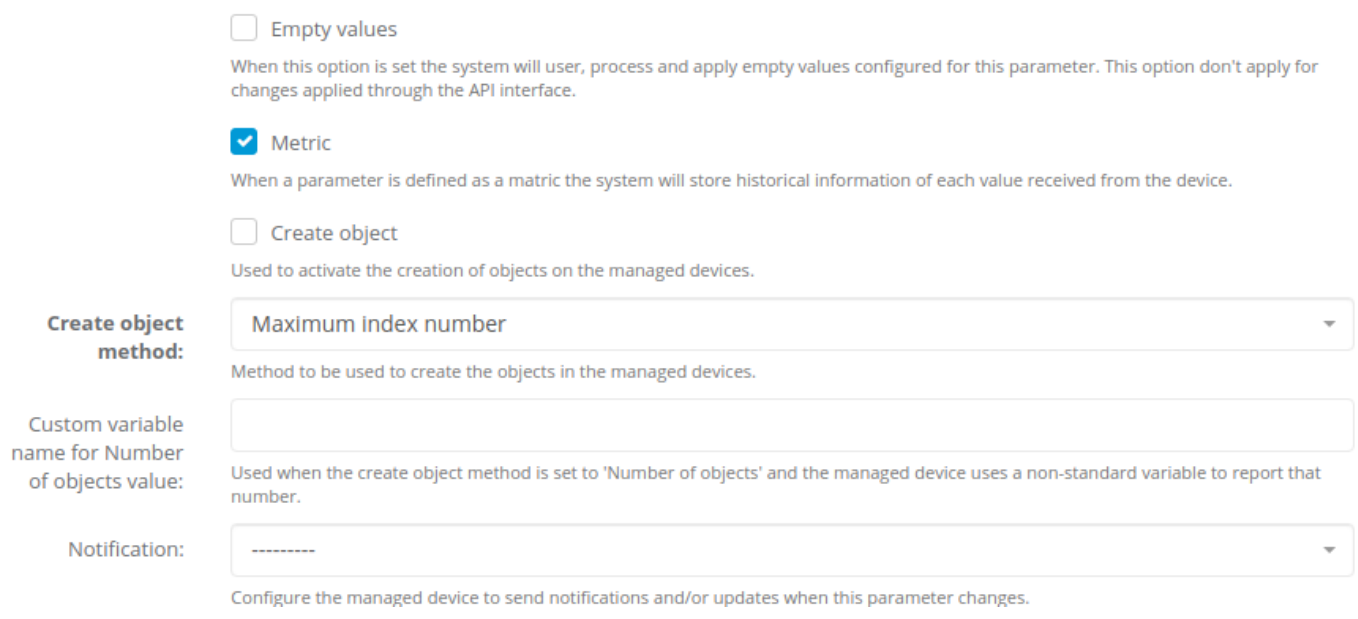
Overview

Metric collection allows you to store historical information for Parameter values received from managed devices. When enabled, CONTROL automatically captures and stores data points over time, enabling trend analysis and historical reporting.

Enabling Metric Collection

To activate metric collection for a Parameter:

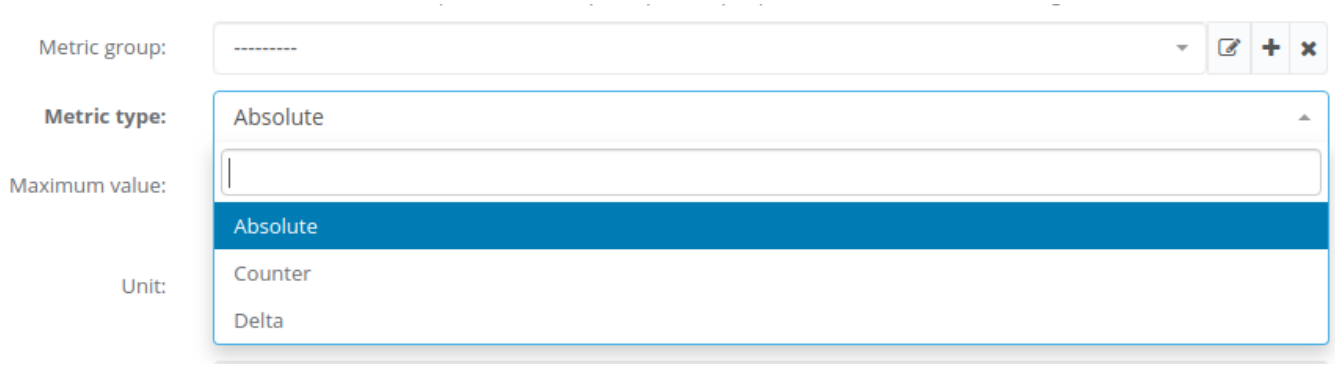
1. Navigate to the Parameter configuration screen
2. Enable the `metric` option



Note: Metric collection is primarily designed for Parameters that return numeric values. For non-numeric Parameters, see the Non-numeric Parameter Metrics section below.

Metric Types

CONTROL supports three types of metrics for Parameters: **Absolute** (default), **Counter**, and **Delta** . Each type determines how received values are processed and stored.



Absolute Metrics

This metric type stores the exact value received from the device after applying:

- Unit conversions (when configured)
- Processing scripts (when configured)

Use this type when you need to track the actual reported values over time (e.g., temperature, voltage, signal strength).

Counter Metrics

This metric type stores the **rate of change** between consecutive values. The calculation is:

```
stored_value = (current_value - previous_value) / time_elapsed
```

The calculation is performed after applying:

- Unit conversions (when configured)
- Processing scripts (when configured)

Use this type for continuously incrementing counters where you want to track the rate (e.g., bytes per second, requests per minute).

Delta Metrics

This metric type stores the **difference** between consecutive values. The calculation is:

```
stored_value = current_value - previous_value
```

The calculation is performed after applying:

- Unit conversions (when configured)
- Processing scripts (when configured)

Use this type when you need to track the absolute change between readings (e.g., change in disk usage, change in user count).

Visualization of Parameter Metrics

TBC

Non-numeric Parameter Metrics

TBC

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