

Command Reference: SetProperty()

Set a property for the time series processor

Version 11.12.05, 2016-09-18

The `SetProperty()` command sets the value of a property used by the time series processor. The property will be available to subsequent commands that support using `${Property}` notation in parameters, for example to specify filenames more dynamically or use with `If()` commands. This command should not be confused with the `SetTimeSeriesProperty()` command, which sets a property on specific time series. The following functionality is provided:

- Set a property to a specified value, where the property can be a Boolean, String, DateTime, Double, or Integer type.
- Set a property to a special value such as empty string that may be difficult to assume from the normal property value.
- Remove an existing property so that it is no longer available to the processor. Care should be taken to understand the implications of removing a property. For example, if the property is used in later commands, then removing will cause the processor to not find the property. It may be more appropriate, for example, to set a string property to an empty string rather than removing.

The following dialog is used to edit this command and illustrates the syntax of the command.

Edit SetProperty() Command

Set (or unset) a property for the processor. The property can be referenced in parameters of other commands using `${Property}` notation. Refer to command documentation and command editors for information about support for `${Property}` in command parameters. Properties can be set using the "Set" or "Special Values" tabs. Properties can be removed (unset) using the "Remove (unset)" tab.

Set Special Values Remove (Unset)

The property value must be provided in a format that is appropriate for the type. For example, a Boolean property can have a value true or false, and Integer can only contain numbers and the negative sign. Specify date/times using standard notations to appropriate precision (e.g., YYYY-MM-DD hh:mm:ss). Special values also are recognized for date/times (for all precisions).

CurrentToYear = the current date to year precision
CurrentToMinute = the current date/time to minute precision
CurrentToMinute - 7Day = current date/time minus 7 days
CurrentToMinute + 7Day = current date/time plus 7 days

See also the `SetInputPeriod()` command for examples of date/time modifiers, such as `.Timezone()`, which sets the time zone.

Property name: Required - do not use spaces \$, { or } in name.
Property type: Required - to ensure proper initialization and checks.
Property value: Required unless special value - property value, can use `${Property}`.

Command:

Cancel OK

SetProperty

SetProperty() Command Editor for General Set Parameters

Use the following parameters to set properties to special values, depending on property type.
Using special values ensures that there is no confusion interpreting the property value.
The property name must be specified in the "Set" tab.
The property type must be specified as String in the "Set" tab if setting to an empty string.
The property type must be specified as Double in the "Set" tab if setting to NaN.

Set to empty string? Optional - set String property to empty string.

Set to NaN? Optional - set Double property to "not a number" (NaN).

Set to null? Optional - set any property type to null.

SetProperty_Special

SetProperty() Command Editor for Special Value Parameters

Use the following parameter to remove (unset) a property.
The processor will not have access to the property after the command (requests will return null).
The property name must be specified in the "Set" tab.

Remove/unset property? Optional - remove/unset the property

SetProperty_Remove

SetProperty() Command Editor for Removing a Property

The command syntax is as follows:

```
SetProperty (Parameter=Value,...)
```

Command Parameters

Parameter	Description	Default
PropertyName	The property name.	None – must be specified.
PropertyType	<p>The property type, used for validation, one of:</p> <ul style="list-style-type: none"> Boolean – a boolean DateTime – a date/time Double – a floating point number Integer – an integer String – a string <p>DateTime objects can be specified with special syntax to use current time and modifiers on the DateTime. See the <code>SetInputPeriod()</code> command for more information.</p>	None – must be specified as when setting a new property, although is not needed when setting to null or removing.
PropertyValue	The value of the property, adhering to property type constraints. Date/time properties should be specified using standard formats such as “YYYY-MM-DD hh:mm:ss”, to an appropriate precision. Special date/time syntax is recognized, as shown in the above figure.	None – must be specified when setting a value. The parameter is not needed when setting special values or removing the property.

Parameter	Description	Default
	Global properties can be used with the <code>\${Property}</code> syntax.	
SetEmpty	If specified as <code>True</code> , the String property will be set to an empty string.	The <code>PropertyValue</code> parameter will be used.
SetNaN	If specified as <code>True</code> , the Double property will be set to the special “not a number” (NaN) value.	The <code>PropertyValue</code> parameter will be used.
SetNull	If specified as <code>True</code> , the property will be set to null (not specified).	The <code>PropertyValue</code> parameter will be used.
RemoveProperty	If specified as <code>True</code> , the property will be removed and will be unavailable to the processor. Only user-defined properties can be removed (not important internal properties).	The <code>PropertyValue</code> parameter will be used.

A sample commands file is as follows:

```
SetProperty(PropertyName="Scenario",PropertyType=String,PropertyValue="Likely")
```

This page is intentionally blank.