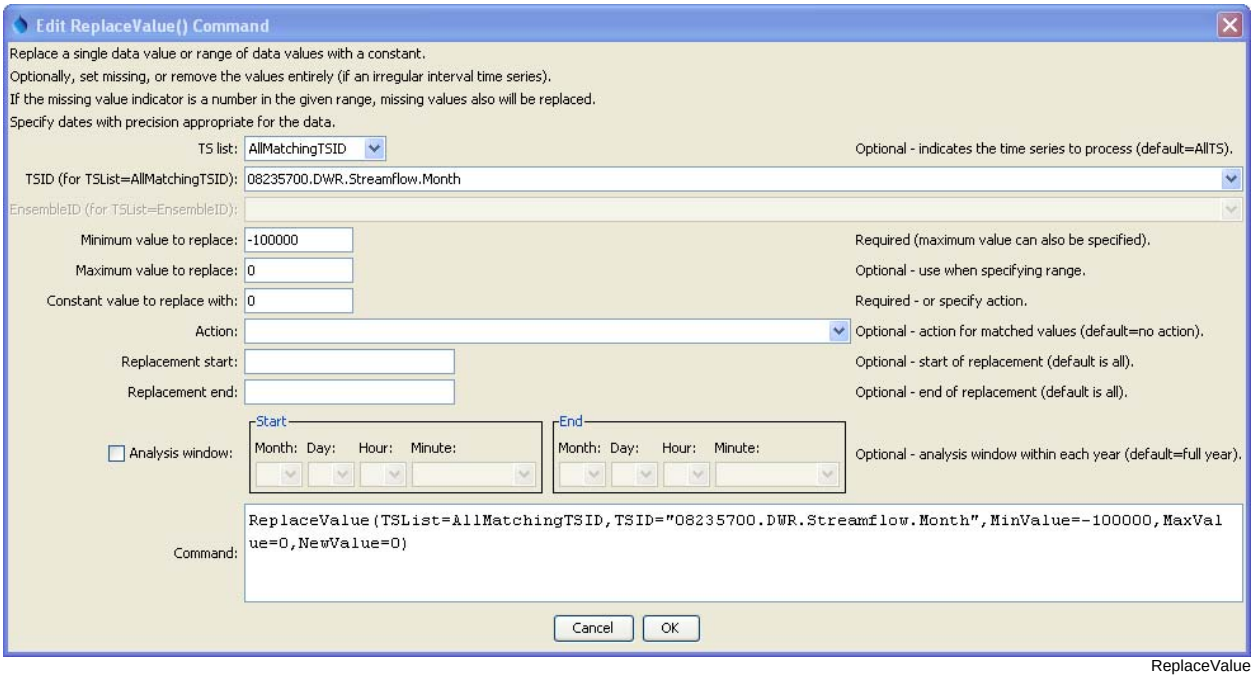
Command Reference: ReplaceValue()

Replace a range of data values with a constant Value

Version 09.07.01, 2010-08-18

The `ReplaceValue()` command replaces a range of values in a time series with a constant value, sets the values to missing, or removes the values (if an irregular time series). If the missing value indicator is a number in the range, missing values also will be replaced. This command is useful for filtering out erroneous data values. See also the `CheckTimeSeries()` command, which provides for a variety of checks and also allows values to be set to missing or removed.

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



ReplaceValue

ReplaceValue() Command Editor

The command syntax is as follows:

```
ReplaceValue(Parameter=Value,…)
```

Command Parameters

Parameter	Description	Default
`TSList`	Indicates the list of time series to be processed, one of: • `AllMatchingTSID` – all time series that match the `TSID` (single TSID or TSID with wildcards) will be processed. • `AllTS` – all time series before the command. • `EnsembleID` – all time series in the ensemble will be processed.	`AllTS`

	• `FirstMatchingTSID` – the first time series that matches the `TSID` (single TSID or TSID with wildcards) will be processed. • `LastMatchingTSID` – the last time series that matches the `TSID` (single TSID or TSID with wildcards) will be processed. • `SelectedTS` – the time series are those selected with the `SelectTimeSeries()` command.	
`TSID`	The time series identifier or alias for the time series to be processed, using the `*` wildcard character to match multiple time series.	Required if `TSList=*TSID`.
`EnsembleID`	The ensemble to be processed, if processing an ensemble.	Required if `TSList=EnsembleID`.
`MinValue`	The minimum value to replace.	None – must be specified.
`MaxValue`	The maximum value to replace.	If not specified, only data values that exactly match the minimum value will be replaced.
`NewValue`	The new data value.	Required, unless the `Action` parameter is specified.
`Action`	An action to take with values that are matched: • `Remove` – remove the data points. This can only be specified for irregular interval time series and will be interpreted as `SetMissing` for regular interval time series. • `SetMissing` – set values to missing.	No action is taken and the `NewValue` parameter must be specified.
`SetStart`	The date/time to start filling, if other than the full time series period.	Check the full period.
`SetEnd`	The date/time to end filling, if other than the full time series period.	Check the full period.
`AnalysisStart`	The starting date/time within the calendar year to replace data. The window CANNOT cross calendar year boundaries (this may be allowed in the future). Use multiple commands if necessary.	Process each full year.
`AnalysisEnd`	The ending date/time within the calendar year to replace data.	Process each full year.

A sample command file to process from the State of Colorado's HydroBase database is as follows:

```
# 08235700 - ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER
08235700.DWR.Streamflow.Month~HydroBase
ReplaceValue(TSList=AllTS,MinValue=-100000,MaxValue=0,NewValue=0)
```