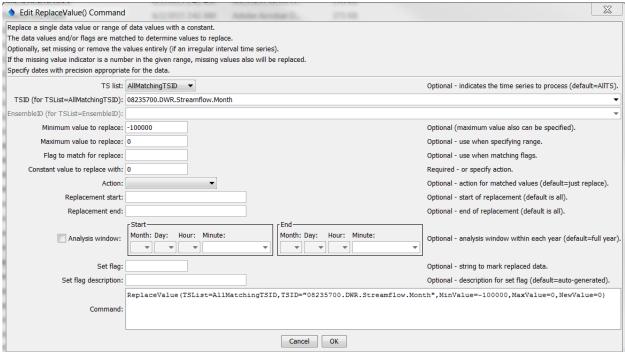
Command Reference: ReplaceValue()

Replace time series data value(s)

Version 11.03.02, 2015-06-08

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. The time series data flag can be checked in place of or addition to checking the numerical values. 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. 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. 	AllTS
TSID	The time series identifier or alias for the time series to be processed, using the * wildcard character to match multiple time series. Can be specified with processor \${Property}.	Required if TSList=*TSID.
EnsembleID	The ensemble to be processed, if processing an ensemble. Can be specified with processor \${Property}.	Required if TSList=EnsembleID.
MinValue	The minimum value to replace.	The minimum value and/or MatchFlag must be specified.
MaxValue	The maximum value to replace.	If not specified, only data values that exactly match the minimum value will be replaced.
MatchFlag	The flag to match. If specified in addition to MinValue, then the value and flag must be matched in order to perform the replacement. A case-sensitive comparison is made and the data value flag must exactly match MatchFlag. In the future additional flexibility may be added to match a substring, etc. If Action=SetMissing, the original data flag value will remain. Specifying SetFlag will result in the original data flag being modified.	The minimum value and/or MatchFlag must be specified.

Parameter	Description	Default
NewValue	The new data value.	Required, unless the
		Action parameter is
		specified.
Action	An additional action to take with values that are	No additional action is
	matched:	taken and the NewValue
	• Remove – remove the data points. This can	parameter must be
	only be specified for irregular interval time	specified.
	series and will be interpreted as	
	SetMissing for regular interval time	
	series.	
	• SetMissing – set values to missing.	
SetStart	The date/time to start filling, if other than the full	Check the full period.
	time series period. Can be specified with	
	<pre>processor \${Property}.</pre>	
SetEnd	The date/time to end filling, if other than the full	Check the full period.
	time series period. Can be specified with	
	<pre>processor \${Property}.</pre>	
AnalysisWindow	The starting date/time within the calendar year to	Process each full year.
Start	replace data. The window CANNOT cross	
	calendar year boundaries (this may be allowed in	
	the future). Use multiple commands if necessary.	
AnalysisWindow	The ending date/time within the calendar year to	Process each full year.
End	replace data.	
SetFlag	A string to assign to data values that are replaced.	Do not assign a string flag.
SetFlagDesc	Description for SetFlag, used for data	Auto-generate.
	products.	

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)

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