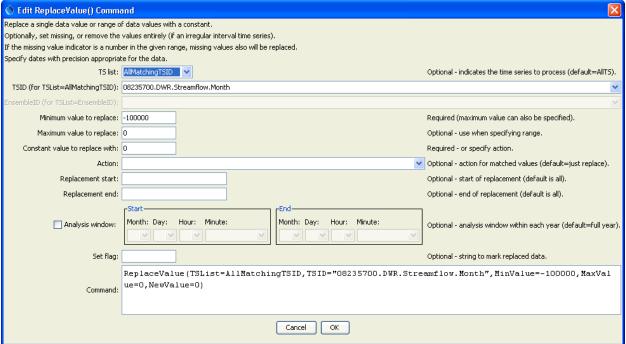
Command Reference: ReplaceValue()

Replace a range of data values with a constant Value

Version 10.00.01, 2011-05-11

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() Command Editor

ReplaceValue

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:	AllTS
	• 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.	
TSID	The time series identifier or alias for the time	Required if
	series to be processed, using the * wildcard	TSList=*TSID.
	character to match multiple time series.	
EnsembleID	The ensemble to be processed, if processing an	Required if
	ensemble.	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 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.	r
SetEnd	The date/time to end filling, if other than the full	Check the full period.
	time series period.	r
AnalysisStart	The starting date/time within the calendar year to	Process each full year.
_	replace data. The window CANNOT cross	
	calendar year boundaries (this may be allowed in	
	the future). Use multiple commands if necessary.	
AnalysisEnd	The ending date/time within the calendar year to	Process each full year.
_	replace data.	
SetFlag	A string to assign to data values that are replaced.	Do not assign a string flag.
	1	_ = 1 1101 41001011 4 0411116 1146.

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)