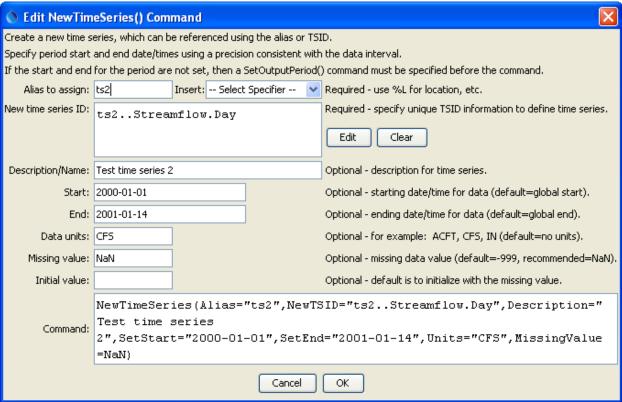
Command Reference: NewTimeSeries()

Create a new time series

Version 10.06.00, 2012-04-01

The NewTimeSeries() command creates a new time series in memory and assigns it an alias. This time series then can be manipulated (e.g., added to, filled). The command is useful, for example, to create a new time series to receive the results of a series of manipulations, rather than having the results accumulate in the first time series. See also the NewPatternTimeSeries() command, which initializes a time series with a repeating pattern of values. Subsequent manipulation of the time series may require use of the SetTimeSeriesProperty() and other commands to ensure that the new time series properties are as desired.

The following dialog is used to edit the command and illustrates the syntax for the command. The new time series identifier, which provides critical information including the data interval, is edited by pressing the *Edit* button.



NewTimeSeries() Command Editor

NewTimeSeries

The command syntax is as follows:

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

The following older command syntax is updated to the above syntax when a command file is read:

```
TS Alias = NewTimeSeries(Parameter=Value,...)
```

Command Parameters

Parameter	Description	Default
Alias	The alias to assign to the time series, as a literal	None – must be specified.
	string or using the special formatting characters	
	listed by the command editor. The alias is a short	
	identifier used by other commands to locate time	
	series for processing, as an alternative to the time	
	series identifier (TSID).	
NewTSID	The time series identifier of the new time series.	None – must be specified
	The editor dialog formats the identifier from its	with at least minimal
	parts.	information (location,
		data type, and interval).
Description	The description for the time series, used in output.	Blank.
SetStart	The start of the time series data period, or blank to	Use the start from
	use the output period defined with the	SetOutputPeriod().
	SetOutputPeriod() command.	
SetEnd	The end of the time series data period, or blank to	Use the end from
	use the output period defined with the	<pre>SetOutputPeriod().</pre>
	SetOutputPeriod() command.	
Units	Data units for the time series.	Blank.
MissingValue	Value to use to indicate missing data values999	-999
	is the default for historical reasons; however, NaN	
	(not a number) is being phased in and should be	
	specified if possible.	
InitialValue	The initial value to populate the time series.	Initialize the time series
		to missing data.

The example command file shown below creates a new time series and initializes it to a constant of 20 CFS. Uncommenting the first command would allow the SetStart and SetEnd parameters to be removed from the NewTimeSeries() command. The interval (Month below) must match a recognized type but the other parts of the identifier such as data type are user-defined.

```
#SetOutputPeriod(OutputStart="1950-01",OutputEnd="2002-12")
NewTimeSeries(Alias="station1",NewTSID="Station1.MyModel.Streamflow.Month",
    Description="Example Description",SetStart="1950-01",
    SetEnd="2002-12",Units="CFS",InitialValue=20)
```