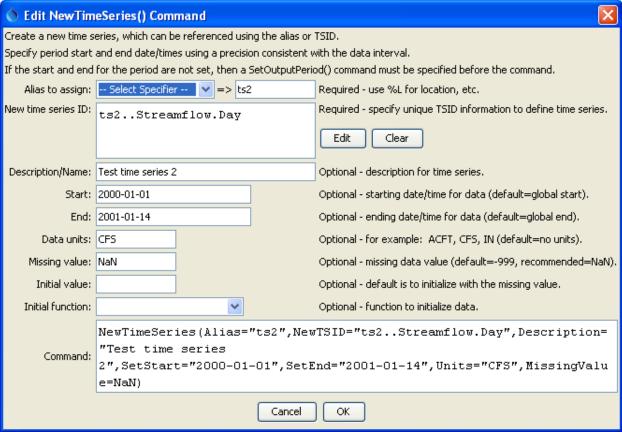
## Command Reference: NewTimeSeries()

Create a new time series

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The NewTimeSeries () command creates a new time series and assigns it an alias. This time series then can be manipulated with other commands. 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 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).	None – must be specified.
NewTSID	The time series identifier of the new time series. The editor dialog formats the identifier from its parts.	None – must be specified with at least minimal 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.	Use the start from SetOutputPeriod().
SetEnd	The end of the time series data period.	Use the end from SetOutputPeriod().
Units	Data units for the time series.	Blank.
MissingValue	Value for missing data values999 is the default for historical reasons; however, NaN (not a number) is being phased in and should be specified if possible.	-999
InitialValue	The value to initialize the time series.	Initialize the time series to missing data.
InitialFunction	The function to use to initialize time series data values.  This parameter can be used to generate data for testing to simplify visual inspection of results.  DATE_YYYY - 4-digit year  DATE_YYYYMMDD - year, month, and day  DATE_YYYYMMDD_hh - year, month, and day, with decimal as hour  DATE_YYYYMMDD_hhmm - year, month, and day, with decimal as hour and minute  RANDOM_0_1 - random number >= 0 and < 1  RANDOM_0_1000 - random number >= 0 and < 1000	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)