## Command Reference: ExpandTemplateFile()

Process a template file to create the fully-expanded file

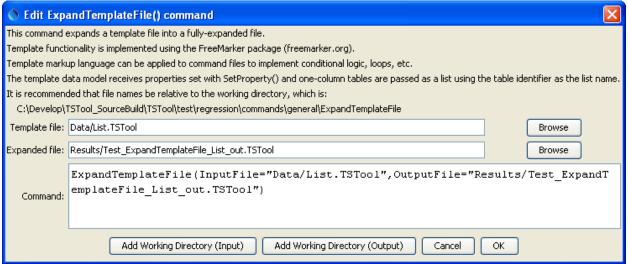
/ersion 09.09.00, 2010-09-23

The ExpandTemplateFile() command processes a template file (typically a command file or time series product file but can be any text file) to create a fully-expanded file. Templates facilitate utilizing conditional logic, loops, and other dynamic processing functionality. For example, a template can be used to repeat commands for multiple location identifiers. Templates can also be applied to other text files.

The FreeMarker software (<a href="http://freemarker.org">http://freemarker.org</a>) is used to implement templates. Refer to the online documentation for information about the markup language used to create templates. The built-in normalizeNewlines user directive is automatically used to ensure that expanded files use newline characters appropriate for the operating system – this leads to extra first and last lines in the template during processing.

Properties set with the SetProperty() command are passed to the template tool. One-column tables are also passed as lists, using the table identifier as the property name. For example, use the CopyTable() command to create a one-column table that can be used as a list for template expansion.

The following dialog is used to edit the command and illustrates the syntax for the command.



ExpandTemplateFile() Command Editor

ExpandTemplateFile

The command syntax is as follows:

ExpandTemplateFile(Parameter=Value,...)

## **Command Parameters**

Parameter	Description	Default
InputFile	The name of the template file to process.	None – must be specified.
OutputFile	The name of the expanded output file.	None – must be specified.

The following example illustrates a simple template command file and expanded result:

```
# Simple test to expand a text file using FreeMarker
<#assign message="Hello World">
${message}
```

```
# Simple test to expand a text file using FreeMarker
Hello World
```

The following example illustrates a template command file and expanded result to repeat a command for a list of location identifiers. A block of multiple commands can be repeated, as appropriate. Long lines are indented for illustration but would exist on a single line without indentation in the template file.

```
# Simple template to illustrate how to repeat commands with a list of location identifiers
# Create a time series for each location
# The following ensures that the created template is read-only, so users
# modify the template instead:
#@readOnly
TS loc1 = NewPatternTimeSeries(NewTSID="loc1..Streamflow.Day",
    SetStart="2000-01-01", SetEnd="2000-03-15",
   Units="CFS",PatternValues="1,0")
TS loc2 = NewPatternTimeSeries(NewTSID="loc2..Streamflow.Day",
   SetStart="2000-01-01", SetEnd="2000-03-15",
   Units="CFS",PatternValues="2,0")
TS loc3 = NewPatternTimeSeries(NewTSID="loc3..Streamflow.Day",
   SetStart="2000-01-01", SetEnd="2000-03-15",
   Units="CFS",PatternValues="3,0")
TS loc4 = NewPatternTimeSeries(NewTSID="loc4..Streamflow.Day",
    SetStart="2000-01-01", SetEnd="2000-03-15",
    Units="CFS",PatternValues="4,0")
```