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# Command Reference: ExpandTemplateFile()

## Process a template file to create the fully-expanded file

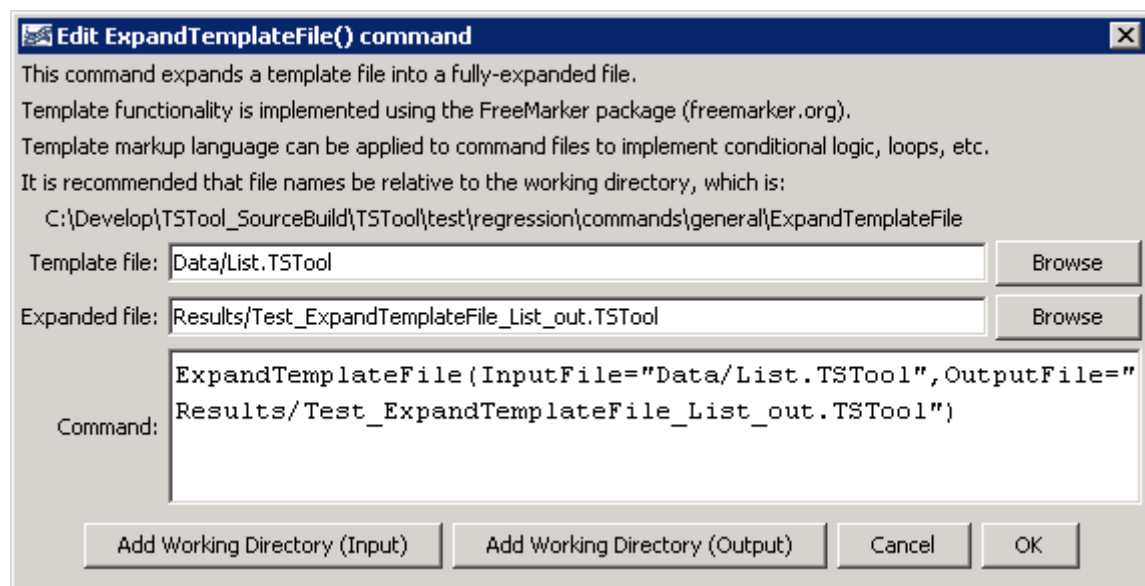
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The `ExpandTemplateFile()` command processes a template file (typically a command file but can be any text file) to create a fully-expanded file. Templates facilitate utilizing conditional logic, loops, and other dynamic processing functionality. For 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 (<http://freemarker.org>) 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.

This command currently only performs simple expansion of templates. In the future it is envisioned that TSTool dynamic information, such as the output period and working directory, will be made available to the template processor to allow greater integration of content.

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



ExpandTemplateFile

### ExpandTemplateFile() Command Editor

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
<#assign setStart = "2000-01-01">
<#assign setEnd = "2000-03-15">
<#assign units = "CFS">
<#assign locList = ["loc1", "loc2", "loc3", "loc4"]>
<#list locList as loc>
TS ${loc} =
NewPatternTimeSeries(NewTSID="${loc}..Streamflow.Day",SetStart="${setStart}",
    SetEnd="${setEnd}",Units="${units}",PatternValues="${loc_index + 1},0")
</#list>
```

```
# 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")
```