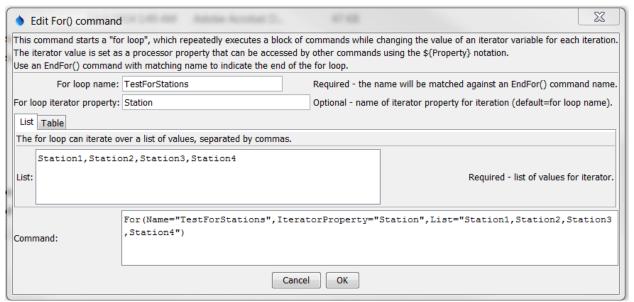
Command Reference: For()

Start a block of commands as part of a "for" loop

Version 11.03.01, 2015-06-06

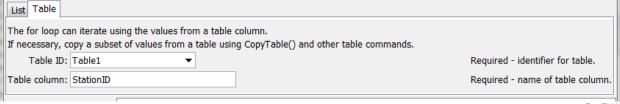
The For () command iterates through a block of commands between For () and matching EndFor () commands. A processor property is set to the value of the iteration property and can be used by other commands that support properties, using the \${Property} notation. This command is an alternative to implementing loops in templates (see ExpandTemplateFile()), in particular for straightforward command logic. Currently For () commands can iterate over a list of supplied values or values from a table column. For () commands can be nested. Status messages for run mode are accumulated in each command.

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



For() Command Editor Illustrating Using a List for Iteration Values

For_List



For() Command Editor Illustrating Using a Table for Iteration Values

For_Table

The command syntax is as follows:

For (Parameter=Value, ...)

Command Parameters

For() Command TSTool Documentation

Parameter	Description	Default
Name	The name of the "for" loop, which will	None – must be specified.
	be matched with the name of an	
	EndFor() command to indicate the	
	block of commands in the loop.	
IteratorProperty	The processor property that will be set to	Same as Name.
	the iterator property. The object type	
	will depend on that used to provide the	
	iteration property list. For example, if a	
	column of strings from a table is used for	
	iteration, the property will contain a	
	string.	
List	A list of comma-separated values to be	None – must specified a list or
	used as variables for the iteration.	table.
TableID	The table identifier, when specifying the	None – must specified a list or
	iterator as a column from a table. Can	table.
	be specified with processor	
	\${Property}.	
TableColumn	The table column name, when specifying	None – must be specified if table
	the iterator as a column from a table.	is used.

The following example illustrates a simple For () and EndFor () usage. In this example the StationID column in the input table is used to provide the list of values to iterate over. The following input table is a delimited file but could come from another source:

```
# Test table data for For() command tests
"Count","Val","StationID","Basin"
1,1.0,Station1,Basin1
2,2.0,Station2,Basin2
3,3.0,Station3,Basin3
4,4.0,Station4,Basin4
```

The following command file reads the above input table, iterates over the StationID column, and creates a simple output file:

```
ReadTableFromDelimitedFile(TableID="Table1",InputFile="Data\testtable.csv")

RemoveFile(InputFile="Results/Test_For_TableString_out.txt",IfNotFound=Ignore)

For(Name="TestFor",TableID="Table1",TableColumn="StationID")

WritePropertiesToFile(OutputFile="Results/Test_For_TableString_out.txt",

IncludeProperty="TestFor",WriteMode=Append,FileFormat=NameTypeValue)

EndFor(Name="TestFor")
```

The resulting output file is as follows:

```
TestFor="Station1"
TestFor="Station2"
TestFor="Station3"
TestFor="Station4"
```