## **Command Reference: For()**

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

Version 11.00.00, 2015-02-25

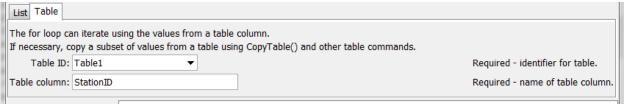
The For () command iterates through a block of commands between For () and matching EndFor () commands. A processor property is set to the value of the iteration property and can be used by other commands that support properties, using the \${Property} notation. Looping is useful in particular in cases where a single data property is being changed for a block of commands and commands within the loop are relatively simple (otherwise troubleshooting can be complicated). This command is an alternative to implementing loops in templates (see <code>ExpandTemplateFile())</code>, 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 currently cannot be nested, but this capability is planned for the future.

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

♦ Edit For() command						
This command is under development. Nested For() loops are not supported.  This command starts a "for loop", which repeatedly executes a block of commands while changing the value of an iterator variable each iteration.						
The iterator value is set as a processor property that can be accessed by other commands using the \${Property} notation.  Use an EndFor() command with matching name to indicate the end of the for loop.						
	For loop name:	TestFor	Required - the name	will be matched against an EndFor() command name.		
For lo	For loop iterator property:		Optional - name of iterator property for iteration (default=for loop name).			
List Table						
The for loop can iterate over a list of values, separated by commas.						
	Station1,Statio	n2,Station3,Station4				
List:				Required - list of values for iterator.		
For (Name="TestFor", List="Station1, Station2, Station3, Station4")						
Comr	mand:					
Cancel OK						

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, ...)

For() Command TSTool Documentation

## **Command Parameters**

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.	table.
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:

The resulting output file is as follows:

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