## **Command Reference: If()**

## Start a block of commands as part of a conditional "if"

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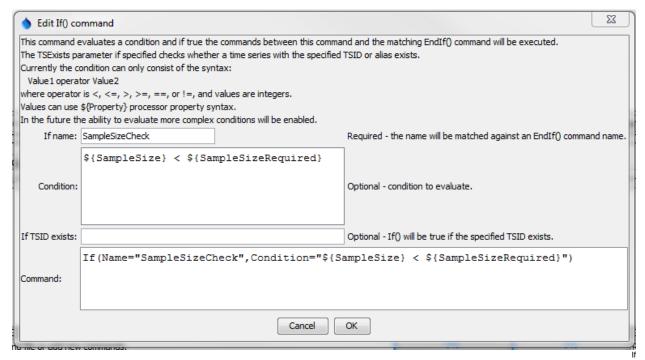
The If() command evaluates a conditional statement and if true will result in the commands between If() and matching EndIf() being executed. The If() and EndIf() commands must have the same value for the Name parameter to allow TSTool to determine the start and end of the block. Currently, there is no "else if" or "else" syntax. The syntax for the conditional statement is restricted to:

## Value1 operator Value2

Where the values can be integers and the operator is one of the following (more functionality will be added in the future):

- <
- <=
- >
- >=
- ==
- !=

If () commands can be nested. All nested If () commands must evaluate to true to execute the commands within the deepest level of nesting. Some commands, including SelectTimeSeries() and ReadTimeSeriesList() now set a property that can be used for checks. The following dialog is used to edit this command and illustrates the command syntax.



If() Command Editor

If() Command TSTool Documentation

The command syntax is as follows:

```
If (Parameter=Value,...)
```

## **Command Parameters**

Parameter	Description	Default
Name	The name of the "if" command, which will be matched with the name of an	None – must be specified.
	EndIf() command to indicate the block of commands in the "if" command.	
Condition	The conditional statement to evaluate.	Condition and/or TSExists must be specified.
TSExists	Specify a TSID or alias to match.	Condition and/or TSExists must be specified.

The following example illustrates combinations of If() and Message() commands (indentation indicates line continuation for messages).

```
Test evaluating an integer condition where integer is supplied by property
#@expectedStatus Warning
StartLog(LogFile="Results/Test If IntegerProperty LT IntegerProperty.TSTool.log")
SetProperty (PropertyName="SampleSizeRequired", PropertyType=Integer,
  PropertyValue="10")
SetProperty(PropertyName="SampleSize",PropertyType=Integer,PropertyValue="5")
If(Name="SampleSizeCheck",Condition="${SampleSize} < ${SampleSizeRequired}")</pre>
Message(Message="Sample size (${SampleSize}) is less than required
  ${SampleSizeRequired}",CommandStatus=WARNING)
EndIf(Name="SampleSizeCheck")
If (Name="SampleSizeCheck2", Condition="${SampleSize} > ${SampleSizeRequired}")
Message (Message="Sample size (${SampleSize}) is >= than required
  ${SampleSizeRequired}",CommandStatus=WARNING)
EndIf(Name="SampleSizeCheck2")
If (Name="SampleSizeCheck3Outer", Condition="${SampleSize} < ${SampleSizeRequired}")</pre>
If (Name="SampleSizeCheck3InnerTrue", Condition="${SampleSize} == 5")
Message (Message="Sample size (${SampleSize}) is == 5", CommandStatus=WARNING)
EndIf(Name="SampleSizeCheck3InnerTrue")
If (Name="SampleSizeCheck3InnerFalse", Condition="${SampleSize} != 6")
Message(Message="Sample size (${SampleSize}) is not == 6", CommandStatus=WARNING)
EndIf(Name="SampleSizeCheck3InnerFalse")
EndIf(Name="SampleSizeCheck3Outer")
```