Command Reference: If()

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

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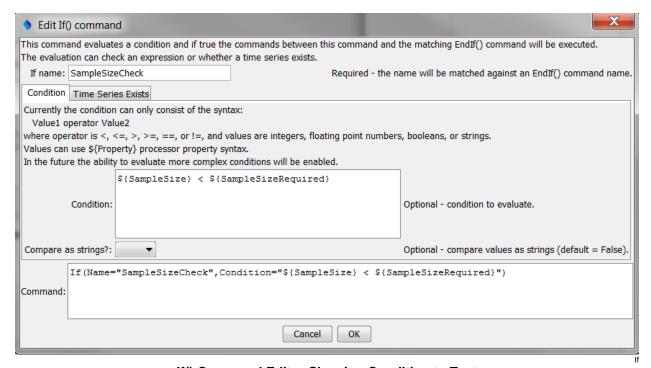
The If() command evaluates a conditional statement and if true will result in the commands between If() and matching EndIf() being executed (the Name parameter for the commands defines a command block). Currently, there is no "else if" or "else" syntax and nested If() commands must be used to evaluate complex conditions. The syntax for the conditional statement is restricted to:

Value1 operator Value2

The values can be integers, floating point numbers, Boolean values, strings, or processor properties that evaluate to these types. The operator is one of the following (more functionality will be added in the future). For Booleans, False is less than True. For strings, A is less than Z, etc.

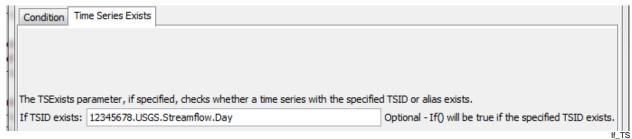
- <
- <=
- >
- >=
- == (use this to test equality do not use a single equal sign)
- !=

All nested If () commands must evaluate to true to execute the commands within the deepest level of nesting. Some commands, including SelectTimeSeries() and CopyTable() set a property that can be used for checks, for example to see if the number of rows in a table or time series in a list is non-zero. The following dialog is used to edit this command and illustrates the command syntax.



If() Command Editor Showing Condition to Test

If() Command TSTool Documentation



If() Command Editor Showing Check for Time Series Existence

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 EndIf() command to indicate the block of commands in the "if" command.	None – must be specified.
Condition	The conditional statement to evaluate.	Condition and/or TSExists must be specified.
CompareAsStrings	If True, the comparison will be done as strings even if the values could be treated as numbers or Booleans.	False
TSExists	Specify a TSID or alias to match. Can specify using \${Property}.	Condition and/or TSExists must be specified.

The following example illustrates combinations of If() and Message() commands (indentation indicates line continuation). In these examples processor properties are used to provide condition values.

```
# Test evaluating an integer condition where integer is supplied by property
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")
```