



Question:

Using the following EE scripting API methods

```
SignalSources.IsConnected  
SignalSources.IsSimulationRunning
```

the return values are always FALSE, independant from the current state of the signal source.

How to get back the current state of the signal sources?



Answer:

This can be explained by several signal sources which are available within the Experiment Environment (INCA, LCO, INTECRIO, etc.).

Use the method `GetSignalSourcesOfType` instead as described below:

```
SignalSources.GetSignalSourcesOfType(ESignalSourceType).GetSignalSourceAt(Index).  
IsConnected  
SignalSources.GetSignalSourcesOfType(ESignalSourceType).GetSignalSourceAt(Index).  
IsSimulationRunning
```

where "ESignalSourceType" is a public enumeration with values

Signal Sources	Value
INCA	0
LCO	1
INTECRIO	2
VP	3
DemoSignalSource	4
EVE	5
VECU	6

and "Index" selects one signal source of the return list element.

Example with signal sources of type LCO:

```
SignalSources.GetSignalSourcesOfType(1).GetSignalSourceAt(0).IsConnected
SignalSources.GetSignalSourcesOfType(1).GetSignalSourceAt(0).IsSimulationRunning
```

Hint: In this case the index can be set to 0, because only one signal source element of type LCO will be returned.

Alternative Code with GetSignalSourceAt(Index)

```
SignalSources.GetSignalSourceAt(1).IsConnected
SignalSources.GetSignalSourceAt(1).IsSimulationRunning
```

Signal Sources	Index
INCA	0
LCO	1
INTECRIO	2
VP	3
DemoSignalSource	4
EVE	5
VECU	6

A short script in Python ready to use is presented below:

```
# import COM module for Windows
import win32com.client

# import time module for sleep functionality
import time

# startup
Application = win32com.client.dynamic.Dispatch("ExperimentEnvironment.Application")
# get root object
ExperimentEnvironment = Application.Scripting
```

```
# for accessing an already opened project, simply get the Workspace and Experiment
properties
Workspace = ExperimentEnvironment.Workspace
Experiment = Workspace.Experiment
# get all signal sources
SignalSources = Experiment.SignalSources

# download the model to the target
SignalSources.Download

# start simulation on the target
SignalSources.StartSimulation
# start measurement
SignalSources.StartMeasurement
# wait 5s
time.sleep(5)

# Check if signal source LC0 is connected
print("Connected: ",
SignalSources.GetSignalSourcesOfType(1).GetSignalSourceAt(0).IsConnected)
# Check if simulation for signal source LC0 is running
print("SimulationRunning: ",
SignalSources.GetSignalSourcesOfType(1).GetSignalSourceAt(0).IsSimulationRunning)
```



Additional information:

More details can be found at the EE scripting API documentation.



In case of further questions:

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