

Supervision and control XML-based from Windows Vista to Windows CE

I/O Drivers VBA Interface Reference Guide

Version 11.3 - Ed. Feb. 2012

cod. DOCS 11 VBD-E Build 1101

Table Of Contents

1. BASIC SCRIPT INTERFACE USE	5
1.1. Basic Script Interface Use	5
2. DRIVERINTERFACE EVENTS	7
2.1. FIREONDATASENT, DRIVERINTERFACE EVENT	
2.1. FIREONDATASENT, DRIVERINTERFACE EVENT	
2.3. FIREONQUALITYCHANGED, DRIVERINTERFACE EVENT	
• PD1//FD14/TFD54.05 51440T1.0440	
3. DRIVERINTERFACE FUNCTIONS	
3.1. ADDDRIVERTASK, DRIVERINTERFACE FUNCTION	
3.2. GetDriverStation, DriverInterface Function	
3.3. GETDRIVERTASK, DRIVERINTERFACE FUNCTION	
3.4. INITDRIVER, DRIVERINTERFACE FUNCTION	
3.5. REMOVEDRIVERTASK, DRIVERINTERFACE FUNCTION	
3.6. SETDRIVER, DRIVERINTERFACE FUNCTION	
3.7. TERMINATEDRIVER, DRIVERINTER AGE FONCTION	
4. DRIVERINTERFACE PROPERTIES	17
4.1. DELAYEVENTS, DRIVERINTERFACE PROPERTY	17
5. TASKINTERFACE FUNCTIONS	19
5.1. EXECUTE, TASKINTERFACE FUNCTION	
5.2. GetFlatVariableList, TaskInterface Function	
5.3. GETMAXBYTESIZE, TASKINTERFACE FUNCTION	
5.4. GETREADBYTEBUFFER, TASKINTERFACE FUNCTION	
5.5. GetStationObject, TaskInterface Function	
5.6. GETTOTALSIZEBYTES, TASKINTERFACE FUNCTION	
5.7. GETVARIABLELISTSEPARATOR, TASKINTERFACE FUNCTION	
5.8. GETXMLSETTINGS, TASKINTERFACE FUNCTION	
5.9. HasBeenExecuted, TaskInterface Function	
5.10. IsValid, TaskInterface Function	
5.11. SETWRITEBYTEBUFFER, TASKINTERFACE FUNCTION	
5.12. ToString, TaskInterface Function	26
6. TASKINTERFACE PROPERTIES	29
6.1. AUTODELETE, TASKINTERFACE PROPERTY	29
6.2. CONDITIONAL VARIABLE, TASK INTERFACE PROPERTY	29
6.3. INUSE, TASKINTERFACE PROPERTY	
6.4. LastExecutionTime, TaskInterface Property	
6.5. NAME, TASKINTERFACE PROPERTY	
6.6. PollingTime, TaskInterface Property	
6.7. POLLINGTIMENOINUSE, TASKINTERFACE PROPERTY	
6.8. STATION, TASKINTERFACE PROPERTY	
6.9. SWAPBYTES, TASKINTERFACE PROPERTY	
6.10. SWAPWORDS, TASKINTERFACE PROPERTY	
6.11. Type, TaskInterface Property	
7. STATIONINTERFACE FUNCTIONS	
7 1 GETRASESTATIONINTEDEACE STATIONINTEDEACE FUNCTION	27

7.2. GETSUBSTATIONINTERFACE, STATIONINTERFACE FUNCTION	
7.3. GETTASK, STATIONINTERFACE FUNCTION	
7.4. GETXMLSETTINGS, STATIONINTERFACE FUNCTION	
7.5. ISINERROR, STATIONINTERFACE FUNCTION	40
8. STATIONINTERFACE PROPERTIES	41
8.1. LASTERRORCODE, STATIONINTERFACE PROPERTY	
8.2. LASTERRORSTRING, STATIONINTERFACE PROPERTY	
8.3. Name, StationInterface Property	
8.4. Quality, StationInterface Property	
8.5. STATIONTYPE, STATIONINTERFACE PROPERTY	
9. SERIALSTATIONINTERFACE FUNCTIONS	45
9.1. GetBaseStationInterface, SerialStationInterface Function	
9.2. GETSUBSTATIONINTERFACE, SERIALSTATIONINTERFACE FUNCTION	
9.3. GETXMLSETTINGS, SERIALSTATIONINTERFACE FUNCTION	
10. SERIALSTATIONINTERFACE PROPERTIES	10
10.1. BAUDRATE, SERIALSTATIONINTERFACE PROPERTY	
10.2. ByteSize, SerialStationInterface Property	
10.3. CdTimeout, SerialStationInterface Property	
10.4. CtsTimeout, SerialStationInterface Property	
10.5. DSrTimeout, SerialStationInterface Property	
10.6. FLOWCONTROL, SERIAL STATION INTERFACE PROPERTY	
10.7. KEEPPORTOPENED, SERIALSTATIONINTERFACE PROPERTY	
10.8. Parity, SerialStationInterface Property	
10.9. PORTID, SERIALSTATIONINTERFACE PROPERTY	
10.10. RxTimeout, SerialStationInterface Property	
10.11. SIZERECEIVINGQUEUE, SERIALSTATIONINTERFACE PROPERTY	
10.12. SIZETRANSMISSIONQUEUE, SERIALSTATIONINTERFACE PROPERTY	56
10.13. STOPBITS, SERIALSTATIONINTERFACE PROPERTY	57
10.14. TxTimeout, SerialStationInterface Property	57
11. TAPISTATIONINTERFACE FUNCTIONS	59
11.1. GetBaseStationInterface, TAPIStationInterface Function	
11.2. GETSUBSTATIONINTERFACE, TAPISTATIONINTERFACE FUNCTION	
11.3. GETXMLSETTINGS, TAPISTATIONINTERFACE FUNCTION	
11.4. IsConnected, TAPIStationInterface Function	
12. TAPISTATIONINTERFACE PROPERTIES	
12.1. DISCONNECTAFTERSECS, TAPISTATIONINTERFACE PROPERTY	
12.2. ENABLETAPICALLONTHISSTATION, TAPISTATIONINTERFACE PROPERT	
12.3. ENDCONNECTIONTIME, TAPISTATIONINTERFACE PROPERTY	
12.4. LASTCONNECTIONTIME, TAPISTATIONINTERFACE PROPERTY	
12.5. LASTTAPIERROR, TAPISTATIONINTERFACE PROPERTY	
12.6. LASTTAPIERRORSTRING, TAPISTATIONINTERFACE PROPERTY	
12.7. PHONENUMBER, TAPISTATIONINTERFACE PROPERTY	
12.8. PROMPTFORCONNECTION, TAPISTATIONINTERFACE PROPERTY	
12.9. RETRIES, TAPISTATIONINTERFACE PROPERTY	
12.10. RETRYAFTERSECS, TAPISTATIONINTERFACE PROPERTY	
12.11. SHOWCONNECTION DLG, TAPISTATION INTERFACE PROPERTY	
12.12. STARTCONNECTIONTIME, TAPISTATIONINTERFACE PROPERTY	
12.13. TOTAL CONNECTION TIME, TAFTSTATION INTERFACE PROPERTY	09
13. TCPIPSTATIONINTERFACE FUNCTIONS	71
13.1. GETBASESTATIONINTERFACE, TCPIPSTATIONINTERFACE FUNCTION	71
13.2. GetSubStationInterface, TCPIPStationInterface Function	72

13.3. GETXMLSETTINGS, TCPIPSTATIONINTERFACE FUNCTION	72
14. TCPIPSTATIONINTERFACE PROPERTIES	75
14.1. BACKUPSERVERADDRESS, TCPIPSTATIONINTERFACE PROPERTY	75
14.2. LOCALBOUNDADDRESS, TCPIPSTATIONINTERFACE PROPERTY	
14.3. LOCALBOUNDPORT, TCPIPSTATIONINTERFACE PROPERTY	76
14.4. MaxReceive, TCPIPStationInterface Property	77
14.5. MaxSend, TCPIPStationInterface Property	78
14.6. RxTimeout, TCPIPStationInterface Property	
14.7. ServerAddress, TCPIPStationInterface Property	
14.8. ServerPort, TCPIPStationInterface Property	
14.9. SWITCHSERVERTIMEOUT, TCPIPSTATIONINTERFACE PROPERTY	
14.10. TxTimeout, TCPIPStationInterface Property	81
15. RASSTATIONINTERFACE FUNCTIONS	83
15.1. GetBaseStationInterface, RASStationInterface Function	83
15.2. GETSUBSTATIONINTERFACE, RASSTATIONINTERFACE FUNCTION	
15.3. GETXMLSETTINGS, RASSTATIONINTERFACE FUNCTION	
15.4. ISCONNECTED, RASSTATIONINTERFACE FUNCTION	
16. RASSTATIONINTERFACE PROPERTIES	87
16.1. DISCONNECTAFTERSECS, RASSTATIONINTERFACE PROPERTY	87
16.2. ENABLERASCALLONTHISSTATION, RASSTATIONINTERFACE PROPERTY	
16.3. ENDCONNECTIONTIME, RASSTATIONINTERFACE PROPERTY	
16.4. LASTCONNECTIONTIME, RASSTATIONINTERFACE PROPERTY	
16.5. LASTRASERRORNUMBER, RASSTATIONINTERFACE PROPERTY	
16.6. LASTRASERRORSTRING, RASSTATIONINTERFACE PROPERTY	89
16.7. NumRetries, RASStationInterface Property	89
16.8. Password, RASStationInterface Property	90
16.9. PHONEBOOKENTRY, RASSTATIONINTERFACE PROPERTY	90
16.10. PHONENUMBER, RASSTATIONINTERFACE PROPERTY	
16.11. PromptForConnection, RASStationInterface Property	
16.12. RETRYAFTERSECS, RASSTATIONINTERFACE PROPERTY	
16.13. ShowConnectionDlg, RASStationInterface Property	
16.14. STARTCONNECTIONTIME, RASSTATIONINTERFACE PROPERTY	
16.15. TOTALCONNECTIONTIME, RASSTATIONINTERFACE PROPERTY	
16.16. USERNAME, RASSTATIONINTERFACE PROPERTY	94

1. Basic Script Interface Use

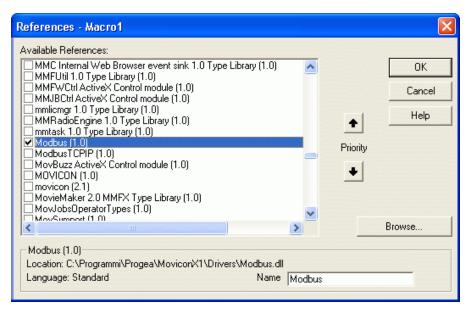
1.1. Basic Script Interface Use

The Supervisor allows you to use a set of functions for managing communication drivers with Basic Scripts as well. In this way you can, for example create and destroy communication tasks during runtime, or retrieve information on the status of station tasks, etc.



In order to use the COM interface (Component Object Model) of a communication driver, you will need to enable the "VBA Driver" option on the license. Otherwise the driver's basic script functions will not get executed in runtime mode.

To make programming easier you can enable the interested Driver Reference within the basic script routine to declare the specific necessary object types (ie. DriverInterface, TaskInterface, etc.) and not generic types (Object). This will give you a list of methods and properties of each specific object you declare.



Please keep in mind that the Reference enabling is not supported on the WinCE platform. If you have to develop a project which has to be executed on WinCE, the References mustn't be enabled but you must declare all Object types.

The examples shown in function documentation have all been created by enabling the driver's Reference.

The following example can only work on Windows 32/64 bit platforms.

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim bError As Boolean

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

bError = station.**IsInError**MsgBox "IsInError = " & CStr(bError),vbInformation,"ERROR"

Set drv = Nothing Set station = Nothing

End Sub

To make it compatible with the WinCE platform the driver References must be enabled and the variables should be declared as follows:

Sub Main

Dim drv As Object
Dim station As Object
Dim bError As Boolean

Set drv = GetDriverInterface("Modbus Serial")
Set station = drv.GetDriverStation("Station1")

bError = station.IsInError
MsgBox "IsInError = " & CStr(bError),vbInformation,"ERROR"

Set dry = Nothing

Set station = Nothing

End Sub

Synchronous Tasks and Asynchronous Tasks

When a task is executed using the "Execute()" function you can choose whether the task should be executed in Sync. mode or Async. mode:

Synchronous Tasks

To made a task become synchronous just assign a timeout time higher than zero to the "Execute()" function. Therefore when this function is called, the script will not be executed until the function has terminated. If the function is executed successfully it will return the "True" value. Otherwise it will return the "False" value if not executed, which may mean that timeout expired before completion.



The "Execute()" function returns the "True" value when it has been executed, meaning that the task was executed but there may be an error and therefore you will have to verify this by controlling the Station's status.

Synchronous Tasks are usually used in cases where data read/writes need to be controlled. For example, to double-check whether a production recipe has been transferred before giving start production command.



To make sure the synchronous task works correctly you will need to set the "Execute()" function's timeout parameters with a higher value to that set in the Station's timeout. For instance, if the station's timeout is 2000 msec, you can then set the "Execute()" function's timeout with 5000 msec. This will ensure that the function's timeout does not expire before the Station's timeout does.

Asynchronous Tasks

To make a task asynchronous, just assign the "Execute()" function with timeout equal to zero. Therefore when the function is called, the script's execution will continue without waiting for the function to terminate. The task will therefore be executed when possible but it will not be possible to know exactly when it happened. In this case the function will always return a "True" value if no error has occurred in the task's creation, such as a wrong parameter. The "True" value for a asynchronous task does not necessarily mean that it has been executed but has just simply been created and is waiting to be executed.

2. DriverInterface Events

2.1. FireOnDataSent, DriverInterface Event

Description This event is fired when data has been sent by a task. It can be used to

retrieve new information without polling.

Remarks Only available from external COM clients. Not available from Supervisor

BasicScripts.

Parameter	Description
(ByVal lpszTaskName As String)	The name of the task in which data has been sent.

Example:

2.2. FireOnNewData, DriverInterface Event

Description This event is fired when data has changed on a task. It can be used to

retrieve new information without polling.

Remarks Only available from external COM clients. Not available from Supervisor

BasicScripts.

Parameter	Description
(ByVal lpszTaskName As String)	The name of the task in which data has changed.

Example:

Option Explicit
Dim WithEvents Drv As ModbusTCPIP.DriverInterface
Dim task As ModbusTCPIP.TaskInterface
Dim task2 As ModbusTCPIP.TaskInterface
Dim var As Variant

Privata Sub Dry FiroOpNowData/PyVal InczTackNama Ac String

Private Sub Drv_FireOnNewData(ByVal IpszTaskName As String)

If IpszTaskName = "Dyn1" Then

var = task.GetReadByteBuffer

Label1.Caption = CStr(var)

ElseIf IpszTaskName = "Dyn2" Then

var = task2.GetReadByteBuffer

Text2.Text = CStr(var)

End If

2.3. FireOnQualityChanged, DriverInterface Event

Description This event is fired when data quality has changed on a task. It can be

used to retrieve new information without polling.

Remarks Only available from external COM clients. Not available from Supervisor

BasicScripts.

Parameter	Description
(ByVal lpszTaskName As String)	The name of the task in which data has changed quality.

Example:

Dim WithEvents Drv As ModbusTCPIP.DriverInterface Dim task As ModbusTCPIP.TaskInterface Dim var As Variant

3. DriverInterface Functions

3.1. AddDriverTask, DriverInterface Function

Syntax AddDriverTask(lpszName, lpszSettings)

Description Adds a Dynamic Task to a driver. A new Dynamic Task is created and its

resources are allocated, but it will not be executed until a call to the Execute function is made. The task will remain allocated in the driver until

removed by a call to RemoveDriverTask.

Remarks

Parameter	Description
lpszName As String	Task Name. Must be unique.
IpszSettings As String	String containing the Dynamic Settings for the task. Please refer to each driver's specific documentation for Dynamic Settings formats. This string is the same one inserted in the "Dynamic" variable's property.
	As a general rule, Dynamic Settings strings are a list of keywords separated by the " " (pipe) character. For instance, the Modbus driver may have:
	[DRV]Modbus TCPIP.Sta=ModbusTCP Typ=10 Size=10 TaskType=0 Unit=1 FC=2 SA=20
	where:
	[DRV]: this is the parameter that indicates driver use and must be followed by driver's name, in the example this will be "Modbus TCPIP" Sta: this is the parameter that indicated the name of the reference station in which task is created. In the example the station will be called "ModbusTCP" Typ: indicates data type to be exchanged. The following values may be used in this parameter:
	<pre>0 = Bit 1 = Sign Byte 2 = Byte 3 = Sign Word 4 = Word 5 = Sign DWord 6 = DWord 7 = Float 8 = Double 9 = String 10 = Array 11 = Structure</pre>
	Size: this is the parameter that indicates the data size in bytes to be exchanged by the task TaskType: this is the parameter that indicates type of task to be created. The following values may be used in this parameter: 0 = Task Input

1 = Task Input/Output 2 = Task Exception Output 3 = Task Unconditional Output

Unit: this is the parameter that indicates the unit number. This parameter is only available for the Modbus driver only

FC: this is the parameter that indicated the function code to use. This parameter is only available for the Modbus driver only

SA: this is the start address parameter that indicates the start address from where data is to be read/written on device.

Result TaskInterface

```
Example:
Sub Main
         Dim drv As DriverInterface
         Dim Station As StationInterface
         Dim TaskReset As TaskInterface
         Dim sDynString As String
         Dim vBuffer As Variant
         'Create driver object
         Set drv = GetDriverInterface("Modbus TCPIP")
         If drv Is Nothing Then
                MsgBox "Modbus TCPIP driver not installed in the project!",
                vbExclamation, GetProjectTitle
                Exit Sub
         End If
         'Create station object
         Set Station = drv. GetDriverStation("Station1")
         If Station Is Nothing Then
                MsgBox "Station1 didn't found in the driver stations list!", vbExclamation,
                GetProjectTitle
                Exit Sub
         End If
         If Station. IsInError Then
                MsgBox "Station in Error!", vbExclamation, GetProjectTitle
                Exit Sub
         End If
         sDynString = "[DRV]Modbus
         TCPIP.Sta=Station1|Typ=4|Size=2|TaskType=2|Unit=1|FC=2|SA=100"
         'Create task object
         Set TaskReset = drv. AddDriverTask ("Dyn1", sDynString)
         If TaskReset Is Nothing Then
                MsgBox "the dynamic string '" & sDynString & "' is wrong!",
                vbExclamation, GetProjectTitle
                Exit Sub
         End If
         If Not TaskReset. Is Valid Then
                MsgBox "AddDriverTask Failed!", vbExclamation, GetProjectTitle
                Exit Sub
         End If
         TaskReset.PollingTime = 0
         Dim ret As Boolean
         'Reset buffer value
```

vBuffer = 0

```
ret = TaskReset.SetWriteByteBuffer(vBuffer)
         If ret = False Then
                MsgBox "SetWriteByteBuffer Failed!", vbExclamation, GetProjectTitle
                Exit Sub
         End If
         'Execute a sync write command
         ret = TaskReset. Execute (5000)
         If ret = False Then
                MsgBox "TaskReset.Execute Failed!", vbExclamation, GetProjectTitle
                Exit Sub
         End If
         'Remove task
         ret = drv.RemoveDriverTask("Dyn1")
         If ret = False Then
                MsgBox "RemoveDriverTask Failed!", vbExclamation, GetProjectTitle
                Exit Sub
         End If
         Set Station = Nothing
         Set drv = Nothing
         Set TaskReset = Nothing
End Sub
```

3.2. GetDriverStation, DriverInterface Function

Syntax GetDriverStation(lpszStation)

Description Returns a Station object.

Remarks

Parameter	Description
lpszStation As String	Station Name.

Result Object

If Function has been executed successfully it will retrieve an object of type

StationInterface if otherwise Nothing is returned.

Example:

See the "AddDriverTask" function example.

3.3. GetDriverTask, DriverInterface Function

Syntax GetDriverTask(lpszName)

Description Returns a task object. This function can be used to retrieve the interface

to any static or dynamic task.

Remarks

Parameter	Description
IpszName As String	Task Name.

Result Object

If Function has been executed successfully it will retrieve an object of TaskInterface type if otherwise Nothing is returned.

```
Example: Sub Main
```

```
Dim drv As DriverInterface
Dim Station As StationInterface
Dim task As TaskInterface
Dim var As Variant
Dim nVal As Integer
Dim nVal2 As Integer
Dim AppByte As Byte
```

```
Set drv = GetDriverInterface("Modbus TCPIP")
Set task = drv.GetDriverTask("AsyncW")
If task Is Nothing Then
        MsgBox "Async task not found"
        Exit Sub
End If
While Not This.IsStopping
        var = task.GetReadByteBuffer
        If (var(1) And &H80) > 0 Then
                AppByte = Not(var(0))
                nVal = AppByte + 1
                AppByte = Not(var(1))
                If nVal > 255 Then
                        nVal2 = (((AppByte + 1) * 256) + (nVal And &HFF)) * -1
                        nVal2 = ((AppByte * 256) + (nVal And &HFF)) * -1
                End If
                SetVariableValue("AsyncRead", nVal2)
        Else
                SetVariableValue("AsyncRead", var(0) + (var(1)*256))
        End If
        DoEvents
Wend
Set Station = Nothing
```

3.4. InitDriver, DriverInterface Function

Syntax InitDriver(lpszSerialNumber, lpszFileSettings)

Description Initialises a Communication Driver. Once this function has been called

successfully, the driver is ready to operate.

Remarks Only available from external COM clients. Not available from Supervisor

BasicScripts

Set drv = Nothing Set task = Nothing

Parameter	Description
IpszSerialNumber As String	Driver Serial Number. Contact Sails Office for a valid Serial Number for the Driver you want to use.
LpszFileSettings As String	Path to a Directory containing the Driver Settings File. The file name must have the following format: <pre></pre>
	Where "DriverDLLName" is the name of the Dynamic Link Library for the Driver.The file is in XML format and can be written in 3 ways:
	 Manually with a text editor By a previous call to the SetDriver function By using the Supervisor user interface (design mode)

Result Boolean

True = the driver has been initialised successfully

False = driver initialization failed

Example:

3.5. RemoveDriverTask, DriverInterface Function

Syntax RemoveDriverTask(IpszName)

Description Removes a Dynamic Task from a driver. A Dynamic Task is removed and

its resources are freed.

Remarks

Parameter	Description
IpszName As String	Task Name.

Result Boolean

True = function has been executed successfully

False = function execution failed

Example:

See the "AddDriverTask" function example.

3.6. SetDriver, DriverInterface Function

Syntax SetDriver(lpszFileSettings)

Description Displays a Property Sheet dialog box, by which the user can change a

driver's General and Station settings.

Remarks Only available from external COM clients. Not available from Supervisor

BasicScripts.

This function must be called when the driver is not initialised, that is

before InitDriver is called, otherwise it will fail.

Parameter	Description
IpszFileSettings As String	Path to a Directory containing the Driver Settings File. The file name must have the following format:
	<driverdllname>.drvsettings</driverdllname>
	Where "DriverDLLName" is the name of the Dynamic Link Library for the Driver.

Result Boolean

True = the function has been executed successfully

False = function execution failed

Example:

Private Sub Form_Load()

Dim blnitOk As Boolean

Set Drv = CreateObject("SupervisorDriver.ModbusTCPIP.1")

Dim bRet As Boolean

bRet = Drv.**SetDriver**("C:\Projects\TestPrj\RESOURCES\TestPrj\")

If Not bRet Then

MsgBox " SetDriver failed!",vbExclamation,"ERROR"

End If

End Sub

3.7. TerminateDriver, DriverInterface Function

Syntax TerminateDriver()

Description Terminates a Communication Driver previously initialised by the InitDriver

function.

Remarks Only available from external COM clients. Not available from Supervisor

BasicScripts

Parameter	Description
None	None

Result Boolean

True = the driver has been terminated successfully

False = driver termination failed

Example:

Private Sub Form_Load()

4. DriverInterface Properties

4.1. DelayEvents, DriverInterface Property

Syntax DelayEvents = Long

Description Gets or sets the delay for DriverInterface events.

Remarks Only available from external COM clients. Not available from Supervisor

BasicScripts.

Parameter	Description
None	None

Result Long

Events delay interval in milliseconds.

Example:

Private Sub Form_Load()
Dim INewVal As Long
Dim bRet As Boolean
Dim drv As Object

Set drv = GetDriverInterface("ModbusTCPIP")

INewVal = drv.**DelayEvents** INewVal = INewVal + 100 drv.**DelayEvents** = INewVal

5. TaskInterface Functions

5.1. Execute, TaskInterface Function

Syntax Execute(dwTimeout)

Description This function puts Tasks into execution. The task in question can

previously be created with the "AddDriverTask" function, or can be an already existing task from the driver's static task list and must be

referenced by calling the "GetDriverTask" function.

ATTENTION! This function returns the True value in cases where the task has been executed, however in order to know if it has been executed successfully without errors, you will need to test the station's status.

Remarks

Parameter	Description
DwTimeout As Long	Time (milliseconds) to wait for task completion. Setting this parameter with a value higher than zero (it is advised that you set a value higher than the one set in the station's timeout time) the task will be executed in Synchronous mode. Setting this parameter to Zero, the task will be executed in Asynchronous mode. In both cases, however, the task will be executed only once, therefore if you use Asynchron Tasks the code must be created so that the function call is recycled.

Result Boolean

True = the function has been executed successfully

False = function execution failed

Example:

See the "AddDriverTask" and "GetDriverTask" function example.

5.2. GetFlatVariableList, TaskInterface Function

Syntax GetFlatVariableList

Description Gets the Variable List of a static task. As only static tasks have a Variable

List, this function is useless with dynamic tasks.

Remarks

Parameter	Description
None	None

Result String

A String containing the Variable List. The separator character can be retrieved by calling the "GetVariableListSeparator" function.

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim strVarlist As String

End If

strVarlist = task.GetFlatVariableList

MsgBox "GetFlatVariableList = " & strVarlist,vbInformation,"ERROR "

Set drv = Nothing Set task = Nothing End Sub

5.3. GetMaxByteSize, TaskInterface Function

Syntax GetMaxByteSize

Description Gets the maximum number of bytes that can be allocated for a task's

read/write buffers.

Remarks

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim nSizeBytes As Long

Set drv = GetDriverInterface("Modbus TCPIP")
Set task = drv.GetDriverTask("Task")
If task Is Nothing Then

MsgBox "Task not found!",vbExclamation,"ERROR "Exit Sub

End If

nSizeBytes = task.**GetMaxByteSize**

MsgBox "GetMaxByteSize = " & CStr(nSizeBytes),vbInformation,"ERROR "

Set drv = Nothing Set task = Nothing End Sub

5.4. GetReadByteBuffer, TaskInterface Function

Syntax GetReadByteBuffer

Description

Returns the latest read values from the task. The Task must previously be added by calling the "AddDriverTask" function and at least one call to the "Execute" function must have been made. If task is already present in the project's static task list, it will not be necessary to create and execute the task but it will have to be referenced only by calling the "GetDriverTask" function.

Remarks

Parameter	Description
None	None

Result Variant

A Variant containing the last read values from the task. Usually the variable data type is dimensioned by the driver based on the data area to be read. If The task is a static task then the function will retrieve an Byte Array containing the data.

Example1:

See the "GetDriverTask" function example.

Example2:

Sub Main

Dim drv As DriverInterface Dim Station As StationInterface Dim task As TaskInterface Dim ret As Boolean Dim var As Variant

Set drv = GetDriverInterface("Modbus TCPIP")Set task = drv.AddDriverTask("Async", "Sta=Station1|Unit=1|FC=2|SA=2")If Not task.IsValid Then

> MsgBox "Task Async is not valid!",vbExclamation,"ERROR" Exit Sub

End If

task.PollingTime = 500

While Not This.IsStopping ret = task.Execute(5000)

End If

var = task.**GetReadByteBuffer** SetVariableValue("AsyncRead", var)

DoEvents

Wend

Set Station = Nothing Set drv = Nothing Set task = Nothing

5.5. GetStationObject, TaskInterface Function

Syntax GetStationObject

Description Gets the interface to a tasks's station object

Remarks

Parameter	Description
None	None

Result Object

If Function has been executed successfully it will retrieve an object of type

StationInterface if otherwise Nothing is returned.

Example:

Sub Main

Dim drv As DriverInterface Dim Station As StationInterface Dim task As TaskInterface

'Create driver object

Set drv = GetDriverInterface("Modbus TCPIP") Set task = drv.**GetDriverTask**("Async")

If task Is Nothing Then

MsgBox "Async task not found!",vbExclamation,"ERROR "

Exit Sub

End If

'Create station object

Set Station = task.**GetStationObject**

If Station.IsInError Then

MsgBox "Station in Error!",vbExclamation,"ERROR "

Exit Sub

End If

Set Station = Nothing Set drv = Nothing Set task = Nothing

End Sub

5.6. GetTotalSizeBytes, TaskInterface Function

Syntax GetTotalSizeBytes

Description Gets the number of bytes allocated for a task's read/write buffers.

in the task, the returned value is a bit number (the driver reserves a byte

for each bit internally).

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim nSizeBytes As Long

nSizeBytes = task.**GetTotalSizeBytes**

MsgBox "GetTotalSizeBytes = " & CStr(nSizeBytes),vbInformation,"ERROR "

Set drv = Nothing Set task = Nothing

End Sub

5.7. GetVariableListSeparator, TaskInterface Function

Syntax GetVariableListSeparator

Description Gets the Variable List Separator of a static task. As only static tasks have

a Variable List, this function is useless with dynamic tasks.

Remarks

Parameter	Description
None	None

Result String

A String containing the Variable List separator character (default is ';').

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim strListSep As String

```
strListSep = task.GetVariableListSeparator
MsgBox "GetVariableListSeparator = " & strListSep,vbInformation,"ERROR "

Set drv = Nothing
Set task = Nothing
End Sub
```

5.8. GetXMLSettings, TaskInterface Function

Syntax GetXMLSettings

Description Gets all settings of a task in XML format.

Remarks

Parameter	Description
None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim strGetXMLSettings As String

Exit Sub

End If

strGetXMLSettings = task.**GetXMLSettings**MsgBox "GetXMLSettings = " & strGetXMLSettings,vbInformation,"ERROR "

Set drv = Nothing Set task = Nothing

End Sub

5.9. HasBeenExecuted, TaskInterface Function

Syntax HasBeenExecuted

Description This function returns information that task has been executed in read,

with success, at least once. This function is therefore used for "Input" or

"Input/Output" tasks.

Remarks

Parameter	Description
None	None

Result Boolean

True = task has been executed in read at least once successfully

False = task has still not been executed in read or if executed has returned

an error

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface

Dim bHasBeenExecuted As Boolean

Set drv = GetDriverInterface("Modbus TCPIP")

Set task = drv.GetDriverTask("Task")

If task Is Nothing Then

 $MsgBox\ "Task\ not\ found!", vbExclamation, "ERROR\ "$

Exit Sub

End If

b Has Been Executed = task. Has Been Executed

MsgBox "HasBeenExecuted = " & CStr(bHasBeenExecuted),vbInformation,"ERROR "

 $Set \ drv = Nothing$

Set task = Nothing

End Sub

5.10. IsValid, TaskInterface Function

Syntax IsValid

Description Returns information about whether a task is valid.

Remarks

Parameter	Description
None	None

Result Boolean

True = task is valid

False = task is not valid

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim bIsValid As Boolean

Set drv = GetDriverInterface("Modbus TCPIP")

Set task = drv.GetDriverTask("Task")

If task Is Nothing Then

MsgBox "Task not found!",vbExclamation,"ERROR "

Exit Sub

End If

bIsValid = task.**IsValid**MsgBox "IsValid = " & CStr(bIsValid),vbInformation,"ERROR "

Set drv = Nothing
Set task = Nothing
End Sub

5.11. SetWriteByteBuffer, TaskInterface Function

Syntax SetWriteByteBuffer(vBuffer)

Description Sets the task with values to write. The Task must be previously be added

by a call to "AddDriverTask" function and at least one call to the "Execute" function must have been made. If task is already present in the static task list of the project, is not necessary create an execute the task but it must only be referenced by a call to "GetDriverTask"

function.

Remarks

Parameter	Description
VBuffer As Variant	The buffer to be written

Result Boolean

True = the function has been executed successfully

False = function execution failed

Example:

See the "AddDriverTask" function example.

5.12. ToString, TaskInterface Function

Syntax ToString

Description Gets the Dynamic Settings string of a task. Please refer to each driver's

specific documentation for Dynamic Settings formats.

Remarks

Parameter	Description
None	None

Result String

String containing the Dynamic Settings for the task. Please refer to each

driver's specific documentation for Dynamic Settings formats.

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim strToString As String

6. TaskInterface Properties

6.1. AutoDelete, TaskInterface Property

Syntax Boolean = task.AutoDelete

Description Gets a task's AutoDelete flag.

Remarks This property is read-only.

Parameter	Description
None	None

Result Boolean

True = AutoDelete enabled False = AutoDelete disabled

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim bAutoDelete As Boolean

Set drv = GetDriverInterface("Modbus TCPIP") Set task = drv.GetDriverTask("Task")

If task Is Nothing Then

MsgBox "Task not found!",vbExclamation,"ERROR "

Exit Sub

End If

bAutoDelete = task.AutoDelete

MsgBox "AutoDelete = " & CStr(bAutoDelete),vbInformation,"ERROR "

Set drv = Nothing Set task = Nothing

End Sub

6.2. ConditionalVariable, TaskInterface Property

Syntax String = task.ConditionalVariable

Description Gets a task's conditional variable name.

Remarks This property is read-only.

Parameter	Description

None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim strCondVar As String

Set drv = GetDriverInterface("Modbus TCPIP") Set task = drv.GetDriverTask("Task") If task Is Nothing Then MsgBox "Task not found!",vbExclamation,"ERROR" Exit Sub End If strCondVar = task.ConditionalVariableMsgBox "ConditionalVariable = " & strCondVar,vbInformation,"ERROR"

Set drv = Nothing Set task = Nothing

End Sub

6.3. In Use, Task Interface Property

Syntax Boolean = task.InUse

Description Gets a task's InUse flag.

Remarks This property is read-only.

Parameter	Description
None	None

Result

True = task in use False = task not in use

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim bInUse As Boolean

Set drv = GetDriverInterface("Modbus TCPIP") Set task = drv.GetDriverTask("Task") If task Is Nothing Then

MsgBox "Task not found!",vbExclamation,"ERROR " Exit Sub

End If

bInUse = task.InUse

MsgBox "InUse = " & CStr(bInUse),vbInformation,"ERROR "

Set drv = Nothing

```
Set task = Nothing 
End Sub
```

6.4. LastExecutionTime, TaskInterface Property

Syntax Date = task.LastExecutionTime

Description Gets a task's last execution time.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim dLastExec As Date

End If

dLastExec = task.LastExecutionTime MsgBox "LastExecutionTime = " & CStr(dLastExec),vbInformation,"ERROR"

Set drv = Nothing Set task = Nothing End Sub

6.5. Name, TaskInterface Property

Syntax String = task.Name

Description Gets the name of a task.

Remarks This property is read-only.

Parameter	Description
None	None

Result String

```
Example:
Sub Main
        Dim drv As DriverInterface
        Dim task As TaskInterface
       Dim strName As String
        Set drv = GetDriverInterface("Modbus TCPIP")
        Set task = drv.GetDriverTask("Task")
        If task Is Nothing Then
                MsqBox "Task not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        strName = task.Name
       MsgBox "Task Name = " & strName,vbInformation,"ERROR "
        Set drv = Nothing
        Set task = Nothing
End Sub
```

6.6. PollingTime, TaskInterface Property

Syntax Long = task.PollingTime

Description Gets a task's in use Polling Time. The time is in Milliseconds.

Remarks

Parameter	Description
None	None

Result Long

```
Example:
Sub Main
        Dim drv As DriverInterface
        Dim task As TaskInterface
       Dim IPolITime As Long
        Set drv = GetDriverInterface("Modbus TCPIP")
        Set task = drv.GetDriverTask("Task")
        If task Is Nothing Then
                MsgBox "Task not found!",vbExclamation,"ERROR "
                Exit Sub
       End If
       IPollTime = task.PollingTime
       MsgBox "PollingTime = " & CStr(IPollTime),vbInformation,"ERROR "
        Set drv = Nothing
        Set task = Nothing
End Sub
```

6.7. PollingTimeNoInUse, TaskInterface Property

Syntax Long = task.PollingTimeNoInUse

Description Gets a task's "not-in-use" Polling Time. The time is in Milliseconds.

Remarks

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim IPolITime As Long

|PollTime = task.PollingTimeNoInUse | MsgBox "PollingTimeNoInUse = " & CStr(|PollTime),vbInformation,"ERROR "

Set drv = Nothing Set task = Nothing End Sub

6.8. Station, TaskInterface Property

Syntax String = task.Station

Description Gets the name of the task's station.

Remarks This property is read-only.

Parameter	Description
None	None

Result String

Example:

Sub Main

```
Dim drv As DriverInterface
        Dim task As TaskInterface
        Dim strStation As String
        Set drv = GetDriverInterface("Modbus TCPIP")
        Set task = drv.GetDriverTask("Task")
        If task Is Nothing Then
                MsgBox "Task not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        strStation = task.Station
        MsgBox "Task Station = " & strStation,vbInformation,"ERROR "
        Set drv = Nothing
        Set task = Nothing
End Sub
```

6.9. SwapBytes, TaskInterface Property

Syntax Boolean = task.SwapBytes

Description Gets a task's SwapBytes flag.

Remarks This property is read-only.

Parameter	Description
None	None

```
Result
```

True = Swap Byte enabled False = Swap Byte disabled

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim bSwapBytes As Boolean

Set drv = GetDriverInterface("Modbus TCPIP") Set task = drv.GetDriverTask("Task")

If task Is Nothing Then

MsqBox "Task not found!",vbExclamation,"ERROR "

Exit Sub

End If

bSwapBytes = task.SwapBytes

MsgBox "SwapBytes = " & CStr(bSwapBytes),vbInformation,"ERROR "

Set drv = Nothing Set task = Nothing

6.10. SwapWords, TaskInterface Property

Syntax Boolean = task.SwapWords

Description Gets a task's SwapWords flag.

Remarks This property is read-only.

Parameter	Description
None	None

Result Boolean

True = Swap Word enabled False = Swap Word disabled

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim bSwapWords As Boolean

Set drv = GetDriverInterface("Modbus TCPIP")

Set task = drv.GetDriverTask("Task")

If task Is Nothing Then

MsgBox "Task not found!",vbExclamation,"ERROR "

Exit Sub

End If

bSwapBytes = task.SwapWords

MsgBox "SwapWords = " & CStr(bSwapWords),vbInformation,"ERROR "

Set drv = Nothing

Set task = Nothing

End Sub

6.11. Type, TaskInterface Property

Syntax Byte = task.Type

Description Gets a task's type.

Remarks This property is read-only.

Parameter	Description
None	None

Result Byte

0 = Input Type

1 = Input/Output Type2 = Exception Output Type3 = Unconditional Output Type

-2147220992 = not defined

```
Example:
Sub Main
        Dim drv As DriverInterface
        Dim task As TaskInterface
        Dim nTaskType As Byte
        Set drv = GetDriverInterface("Modbus TCPIP")
        Set task = drv.GetDriverTask("Task")
        If task Is Nothing Then
                MsqBox "Task not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        nTaskType = task.Type
        MsgBox "Task Type = " & CStr(nTaskType),vbInformation,"ERROR "
        Set drv = Nothing
        Set task = Nothing
```

6.12. WriteOutputsAtStartup, TaskInterface Property

Syntax Boolean = task.WriteOutputsAtStartup

Description This property returns the write settings of the task at project startup.

Shows the value of the "Write Outputs at Startup" property. This only has

meaning for "Input/Output" or "Exception Output" tasks.

Remarks Read only property.

Parameter	Description
None	None

Result Boolean

```
Example:
```

```
Sub Main
```

End Sub

Dim drv As DriverInterface Dim task As TaskInterface Set drv = GetDriverInterface("Modbus TCPIP") Set task = drv.GetDriverTask("Task") If Not task. Is Valid Then MsgBox "Task is not valid!",vbExclamation,"ERROR " End If MsgBox "WriteOutputsAtStartup = " & task.WriteOutputsAtStartup,vbExclamation,"ERROR " Set drv = Nothing

Set task = Nothing

7. StationInterface Functions

7.1. GetBaseStationInterface, StationInterface Function

Syntax GetBaseStationInterface

Description This function used in this interface return an object Nothing.

Remarks

Parameter	Description
None	None

Result Nothing

Example:

7.2. GetSubStationInterface, StationInterface Function

Syntax GetSubStationInterface

Description Returns a SubStation object. According to the driver type, the returned

object may be: "Nothing", "SerialStationInterface", "TAPIStationInterface", "TCPIPStationInterface",

"RASStationInterface".

Remarks

Parameter	Description
None	None

Result Object:

Nothing

SerialStationInterface TCPIPStationInterface

TAPIStationInterface for serial drivers RASStationInterface for TCPIP drivers

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface

```
Dim drv1 As DriverInterface
Dim station1 As StationInterface
Dim SerialStation As SerialStationInterface
Dim TAPIStation As TAPIStationInterface
Dim TCPIPStation As TCPIPStationInterface
Dim RASStation As RASStationInterface
Set drv = GetDriverInterface("Modbus Serial")
Set drv1 = GetDriverInterface("Modbus TCPIP")
Set station = drv.GetDriverStation("Station1")
If station Is Nothing Then
        MsgBox "Station not found!",vbExclamation,"ERROR "
        Exit Sub
End If
Set TAPIStation = station. GetSubStationInterface
If TAPIStation Is Nothing Then
        MsgBox "TAPIStation not found!",vbExclamation,"ERROR "
End If
Set SerialStation = TAPIStation. GetBaseStationInterface
If SerialStation Is Nothing Then
        MsgBox "SerialStation not found!",vbExclamation,"ERROR "
        Exit Sub
End If
Set station1 = drv1.GetDriverStation("Station2")
If station1 Is Nothing Then
        MsgBox "Station1 not found!",vbExclamation,"ERROR "
        Exit Sub
End If
Set RASStation = station1.GetSubStationInterface
If RASStation Is Nothing Then
        MsgBox "RASStation not found!",vbExclamation,"ERROR "
        Exit Sub
End If
Set TCPIPStation = RASStation. GetBaseStationInterface
If TCPIPStation Is Nothing Then
        MsgBox "TCPIPStation not found!",vbExclamation,"ERROR "
        Exit Sub
End If
Set drv = Nothing
Set station = Nothing
Set drv1 = Nothing
Set station1 = Nothing
Set TAPIStation = Nothing
Set SerialStation = Nothing
Set RASStation = Nothing
Set TCPIPStation = Nothing
```

7.3. GetTask, StationInterface Function

Syntax GetTask(lpszTaskName)

Description Returns a task object. This function can be used to retrieve the interface

to any static or dynamic task.

Remarks

End Sub

Parameter	Description
IpszTaskName As String	Nome del Task.

Result Object

If Function has been executed successfully it will retrieve an object of type

TaskInterface if otherwise Nothing is returned.

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim task As TaskInterface Dim bInUse As Boolean

Set task = station.**GetTask**("Task")

If task Is Nothing Then

MsgBox "Task not found!",vbExclamation,"ERROR "

Exit Sub End If

bInUse = task.InUse
MsgBox "InUse = " & CStr(bInUse),vbInformation,"ERROR "

Set drv = Nothing Set station = Nothing End Sub

7.4. GetXMLSettings, StationInterface Function

Syntax GetXMLSettings

Description Gets all settings of a station in XML format.

Remarks

Parameter	Description
None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim strGetXMLSettings As String

7.5. IsInError, StationInterface Function

Syntax IsInError

Description Returns information about whether a station is in error.

Remarks

Parameter	Description
None	None

Result Boolean

True = station in error False = Station ok

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim bError As Boolean

Exit Sub

End If

bError = station. IsInError

MsgBox "IsInError = " & CStr(bError), vbInformation, "ERROR "

Set drv = Nothing Set station = Nothing

End Sub

8. StationInterface Properties

8.1. LastErrorCode, StationInterface Property

Syntax Long = task.LastErrorCode

Description Gets a station's last error code.

Remarks This property is read-only.

Parameter	Description
None	None

Result Long

```
Example:
```

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim ILastError As Long

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set drv = Nothing Set task = Nothing

End Sub

8.2. LastErrorString, StationInterface Property

Syntax String = task.LastErrorString

Description Gets a station's last error description string.

Remarks This property is read-only.

Parameter	Description
None	None

Result String

```
Example:
Sub Main
        Dim drv As DriverInterface
        Dim task As TaskInterface
        Dim ILastError As String
        Set drv = GetDriverInterface("Modbus Serial")
        Set station = drv.GetDriverStation("Station1")
        If station Is Nothing Then
                MsgBox "Station not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        ILastError = station. LastError String \\
        MsgBox "LastErrorString = " & CStr(ILastError),vbInformation,"ERROR "
        Set drv = Nothing
        Set task = Nothing
End Sub
```

8.3. Name, StationInterface Property

Syntax String = task.Name

Description Gets a station's name.

Remarks This property is read-only.

Parameter	Description
None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface Dim task As TaskInterface Dim strName As String

strName = station.Name MsgBox "Name = " & strName,vbInformation,"ERROR "

```
Set drv = Nothing
Set task = Nothing
End Sub
```

8.4. Quality, StationInterface Property

Syntax Integer = task.Quality

Description Gets a station's quality state.

Remarks This property is read-only.

Parameter	Description
None	None

Result Integer

The returned values tally with the OPC specification quality values:

```
252 = OPC_STATUS_MASK
3 = OPC_LIMIT_MASK
0 = OPC_QUALITY_BAD
64 = OPC_QUALITY_UNCERTAIN
192 = OPC_QUALITY_GOOD
4 = OPC_QUALITY_CONFIG_ERROR
8 = OPC_QUALITY_NOT_CONNECTED
12 = OPC_QUALITY_DEVICE_FAILURE
16 = OPC_QUALITY_SENSOR_FAILURE
20 = OPC_QUALITY_LAST_KNOWN
24 = OPC_QUALITY_COMM_FAILURE
28 = OPC_QUALITY_OUT_OF_SERVICE
68 = OPC_QUALITY_LAST_USABLE
80 = OPC_QUALITY_LAST_USABLE
80 = OPC_QUALITY_EGU_EXCEEDED
84 = OPC_QUALITY_SUB_NORMAL
216 = OPC_QUALITY_LOCAL_OVERRIDE
```

Example:

8.5. StationType, StationInterface **Property**

Syntax Byte = task.StationType

Description Gets a station's type.

Remarks This property is read-only.

Parameter	Description
None	None

Result

0 = normal. This value is returned when the driver uses external library, such as Modbus TCPIP, INTERBUS, etc.

1 = SerialType2 = TAPIType

3 = TCPIPType

4 = RASTCPIPType

-2147220992 = station not defined

Example:

```
Sub Main
```

Dim drv As DriverInterface Dim task As TaskInterface Dim nStationType As Byte

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

nStationType = station.StationType

MsgBox "StationType = " & CStr(nStationType),vbInformation,"ERROR "

Set drv = Nothing

Set task = Nothing

End Sub

9. SerialStationInterface Functions

9.1. GetBaseStationInterface, SerialStationInterface Function

Syntax GetBaseStationInterface

Description This function used in this interface returns an object "StationInterface".

Remarks

Parameter	Description
None	None

Result Object

If Function has been executed successfully it will retrieve an object of type

StationInterface, otherwise Nothing is returned.

Example:

Sub Main

Dim drv As DriverInterface

Dim station As StationInterface

Dim SerialStation As SStationInterface

Dim TAPIStation As TAPIStationInterface Dim SubSerialStation As StationInterface

Dim SubTAPIStation As TAPIStationInterface

Set drv = GetDriverInterface("Modbus Serial")

Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR"

Exit Sub

End If

 $Set\ TAPIStation = station. GetSubStationInterface$

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR"

xit Sub

Set SerialStation = TAPIStation.GetBaseStationInterface

If SerialStation Is Nothing Then

MsgBox "SerialStation not found!",vbExclamation,"ERROR"

Exit Sub

End If

End If

Set SubSerialStation = SerialStation.**GetBaseStationInterface**

If SubSerialStation Is Nothing Then

MsgBox "SubSerialStation not found!",vbExclamation,"ERROR"

Exit Sub

End If

Set SubTAPIStation = SerialStation.GetSubStationInterface
If SubTAPIStation Is Nothing Then
MsgBox "SubTAPIStation not found!",vbExclamation,"ERROR"
Exit Sub

End If

Set drv = Nothing
Set station = Nothing
Set TAPIStation = Nothing
Set SerialStation = Nothing
Set SubSerialStation = Nothing
Set SubTAPIStation = Nothing

End Sub

9.2. GetSubStationInterface, SerialStationInterface Function

Syntax GetSubStationInterface

Description This function, according to driver type, used at this level may return

"SerialStationInterface" or "TAPIStationInterface" object type.

Remarks

Parameter	Description
None	None

Result Object:

SerialStationInterface TAPIStationInterface

Example:

See the "GetBaseStationInterface" property example.

9.3. GetXMLSettings, SerialStationInterface Function

Syntax GetXMLSettings

Description Gets all settings of a station in XML format.

Remarks

Parameter	Description
None	None

Result String

Example:

```
Sub Main
        Dim drv As DriverInterface
        Dim station As StationInterface
        Dim SerialStation As SerialStationInterface
        Dim TAPIStation As TAPIStationInterface
        Dim strGetXMLSettings As String
        Set drv = GetDriverInterface("Modbus Serial")
        Set station = drv.GetDriverStation("Station1")
        If station Is Nothing Then
                MsgBox "Station not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set TAPIStation = station.GetSubStationInterface
        If TAPIStation Is Nothing Then
                MsgBox "TAPIStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set SerialStation = TAPIStation.GetBaseStationInterface
        If SerialStation Is Nothing Then
                MsgBox "SerialStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        str Get XML Settings = Serial Station. \textbf{Get XML Settings}
        MsgBox "GetXMLSettings = " & CStr(strGetXMLSettings),vbInformation,"ERROR "
        Set drv = Nothing
        Set station = Nothing
        Set TAPIStation = Nothing
        Set SerialStation = Nothing
End Sub
```

10. SerialStationInterface Properties

10.1. BaudRate, SerialStationInterface Property

Syntax Long = station.BaudRate

Description This property sets or returns the COM Port BaudeRate value of the

Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface
Dim station As StationInterface
Dim SerialStation As SerialStationInterface
Dim TAPIStation As TAPIStationInterface
Dim IBaudRate As Long
Dim nParity As Byte
Dim nPortID As Byte
Dim nStopBits As Byte
Dim nByteSize As Byte
Dim nFlowControl As Byte

End If

Set TAPIStation = station.GetSubStationInterface

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set SerialStation = TAPIStation.GetBaseStationInterface
If SerialStation Is Nothing Then
MsgBox "SerialStation not found!",vbExclamation,"ERROR "
Exit Sub

End If

nPortID = SerialStation.**PortID** |BaudRate = SerialStation.**BaudRate** nByteSize = SerialStation.**ByteSize** nParity = SerialStation.**Parity** nStopBits = SerialStation.**StopBits** nFlowControl = SerialStation.**FlowControl**

MsgBox "PortID = " & CStr(nPortID) & vbLf & _
"BaudRate = " & CStr(lBaudRate) & vbLf & _
"ByteSize = " & CStr(nByteSize) & vbLf & _
"Parity = " & CStr(nParity) & vbLf & _
"StopBits = " & CStr(nStopBits) & vbLf & _

"FlowControl = " & CStr(nFlowControl),vbInformation,"ERROR "

Set drv = Nothing Set station = Nothing Set TAPIStation = Nothing Set SerialStation = Nothing

End Sub

10.2. ByteSize, SerialStationInterface Property

Syntax Byte = station.ByteSize

Description This property sets or returns the COM Port ByteSize value of the Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Byte

Example:

See the "BaudRate" property example.

10.3. CdTimeout, SerialStationInterface Property

Syntax Long = station.CdTimeout

Description This property sets or returns the Timeout for the COM Port Cd signal of

the Station. This time is in milliseconds.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

See the "RxTimeout" property example.

10.4. CtsTimeout, SerialStationInterface Property

Syntax Long = station.CtsTimeout

Description This property sets or returns the Timeout for the COM Port Cts signal of

the Station. This time is in milliseconds.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

See the "RxTimeout" property example.

10.5. DsrTimeout, SerialStationInterface Property

Syntax Long = station.DsrTimeout

Description This property sets or returns the Timeout for the COM Port Dsr signal of

the Station. This time is in milliseconds.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

See the "RxTimeout" property example.

10.6. FlowControl, SerialStationInterface Property

Syntax Byte = station.FlowControl

Description This property sets or returns the COM Port Flow Control value of the

Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Byte

0 = None 1 = Hardware 2 = Xon / Xoff

Example:

See the "BaudRate" property example.

10.7. KeepPortOpened, SerialStationInterface Property

Syntax Boolean = station.KeepPortOpened

Description This property allow to keep the COM Port always opened during the

project runtime. If the property is set to false the COM port will be opened and then will be closed each time that some data have to be exchanged.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Boolean

True = COM port is keep opened

False = COM port is opened and closed each time some data have to be

exchanged

Example:

Sub Main

Dim drv As DriverInterface
Dim station As StationInterface

Dim SerialStation As SerialStationInterface Dim TAPIStation As TAPIStationInterface Dim bKeepPortOpened As Boolean

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

 $Set\ TAPIStation = station. GetSubStationInterface$

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

 $Set\ Serial Station = TAPIS tation. Get Base Station Interface$

If SerialStation Is Nothing Then

MsgBox "SerialStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

bKeepPortOpened = SerialStation.KeepPortOpened

MsgBox "KeepPortOpened = " & CStr(bKeepPortOpened),vbInformation,"ERROR "

Set drv = Nothing Set station = Nothing Set TAPIStation = Nothing Set SerialStation = Nothing

End Sub

10.8. Parity, SerialStationInterface Property

Syntax Byte = station.Parity

Description This property sets or returns the COM Port Parity value of the Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Byte

0 = None

1 = Odd

2 = Even

3 = Mark

4 = Blank

Example:

See the "BaudRate" property example.

10.9. PortID, SerialStationInterface Property

Syntax Byte = station.PortID

Description This property sets or returns the COM Port number of the Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Byte

0 = COM1 1 = COM2 2 = COM3 3 = COM4

Example:

See the "BaudRate" property example.

10.10. RxTimeout, SerialStationInterface Property

Syntax Long = station.RxTimeout

Description This property sets or returns the Timeout for the COM Port Rx signal of

the Station. This time is in milliseconds.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface

Dim SerialStation As SerialStationInterface

Dim TAPIStation As TAPIStationInterface

Dim IRxTimeout As Long

Dim ITxTimeout As Long

Dim ICdTimeout As Long

Dim ICtsTimeout As Long

Dim IDsrTimeout As Long

Set drv = GetDriverInterface("Modbus Serial")

Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

 $Set\ TAPIStation = station. GetSubStationInterface$

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

```
Set SerialStation = TAPIStation.GetBaseStationInterface
         If SerialStation Is Nothing Then
                  MsgBox "SerialStation not found!",vbExclamation,"ERROR "
                  Exit Sub
         End If
         IRxTimeout = SerialStation.RxTimeout
         ITxTimeout = SerialStation.TxTimeout
         ICdTimeout = SerialStation.CdTimeout
         ICtsTimeout = SerialStation.CtsTimeout
         IDsrTimeout = SerialStation.DsrTimeout
         \label{eq:msgBox} \begin{tabular}{ll} MsgBox "RxTimeout = " \& CStr(IRxTimeout) \& vbLf \& \_ \\ "TxTimeout = " \& CStr(ITxTimeout) \& vbLf \& \_ \\ \end{tabular}
                   "CdTimeout = " & CStr(ICdTimeout) & vbLf & _
                  "CtsTimeout = " & CStr(ICtsTimeout) & vbLf & _
                   "DsrTimeout = " & CStr(IDsrTimeout),vbInformation,"ERROR "
         Set drv = Nothing
         Set station = Nothing
         Set TAPIStation = Nothing
         Set SerialStation = Nothing
End Sub
```

10.11. SizeReceivingQueue, SerialStationInterface Property

Syntax Long = station.SizeReceivingQueue

Description This property sets or returns the Receiving Buffer Queue (Bytes) for the

COM Port of the Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface
Dim station As StationInterface

Dim SerialStation As SerialStationInterface Dim TAPIStation As TAPIStationInterface

Dim ISizeReceivQueue As Long

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set TAPIStation = station.GetSubStationInterface

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

End If

Set drv = Nothing Set station = Nothing Set TAPIStation = Nothing Set SerialStation = Nothing

End Sub

10.12. SizeTransmissionQueue, SerialStationInterface Property

Syntax Long = station.SizeTransmissionQueue

Description This property sets or returns the Transmission Buffer Queue (Bytes) for

the COM Port of the Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim SerialStation As SerialStationInterface Dim TAPIStation As TAPIStationInterface

Dim ISizeTransQueue As Long

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set TAPIStation = station.GetSubStationInterface

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set SerialStation = TAPIStation.GetBaseStationInterface

If SerialStation Is Nothing Then

MsgBox "SerialStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set drv = Nothing Set station = Nothing Set TAPIStation = Nothing Set SerialStation = Nothing End Sub

10.13. StopBits, SerialStationInterface Property

Syntax Byte = station.StopBits

Description This property sets or returns the COM Port Stop Bits value of the Station.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Byte

0 = 1 stop bit 1 = 1.5 stop bits 2 = 2 stop bits

Example:

See the "BaudRate" property example.

10.14. TxTimeout, SerialStationInterface Property

Syntax Long = station.TxTimeout

Description This property sets or returns the Timeout for the COM Port Tx signal of the

Station. This time is in milliseconds.

Remarks A modification of this value will come acquired only to the following serial

port opening.

Parameter	Description
None	None

Result Long

Example:

See the "RxTimeout" property example.

11. TAPIStationInterface Functions

11.1. GetBaseStationInterface, TAPIStationInterface Function

Syntax GetBaseStationInterface

Description This function used in this interface return an object

"SerialStationInterface".

Remarks

Parameter	Description
None	None

Result Object

If Function has been executed successfully it will retrieve an object of type

SerialStationInterface if , otherwise Nothing is returned.

Example:

Sub Main

Dim drv As DriverInterface

Dim station As StationInterface

Dim SerialStation As SerialStationInterface

Dim TAPIStation As TAPIStationInterface
Dim SubTAPIStation As TAPIStationInterface

DIIII SUDTAPISIALIOII AS TAPISIALIOIIIILIETIACE

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set TAPIStation = station.GetSubStationInterface

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set SerialStation = TAPIStation.**GetBaseStationInterface**

If SerialStation Is Nothing Then

MsgBox "SerialStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set SubTAPIStation = TAPIStation.**GetSubStationInterface**

If SubTAPIStation Is Nothing Then

MsgBox "SubTAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set drv = Nothing

Set station = Nothing Set TAPIStation = Nothing Set SerialStation = Nothing Set SubTAPIStation = Nothing

End Sub

11.2. GetSubStationInterface, TAPIStationInterface Function

Syntax GetSubStationInterface

Description This function used in this interface return an object

"TAPI Station Interface".

Remarks

Parameter	Description
None	None

Result Object

If Function has been executed successfully it will retrieve an object of type

TAPIStationInterface if , otherwise Nothing is returned.

Example:

See the "GetBaseStationInterface" property example.

11.3. GetXMLSettings, TAPIStationInterface Function

Syntax GetXMLSettings

Description Gets all settings of a station in XML format.

Remarks

Parameter	Description
None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim TAPIStation As TAPIStationInterface Dim strGetXMLSettings As String

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

```
If station Is Nothing Then
                MsgBox "Station not found!", vbExclamation, "ERROR"
                Exit Sub
        End If
        Set TAPIStation = station.GetSubStationInterface
        If TAPIStation Is Nothing Then
                MsgBox "TAPIStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        strGetXMLSettings = TAPIStation. GetXMLSettings
        MsgBox "GetXMLSettings = " & CStr(strGetXMLSettings),vbInformation,"ERROR "
        Set drv = Nothing
        Set station = Nothing
        Set TAPIStation = Nothing
End Sub
```

11.4. IsConnected, TAPIStationInterface **Function**

Syntax IsConnected

Gets the connection state of the RAS Station. The "True" value indicates Description

that the station is being connected or already connected.

Remarks

Parameter	Description
None	None

Result

True = Station Connected or being connected

False = Station not Connected

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim TAPIStation As TAPIStationInterface Dim blsConnected As Boolean

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1") If station Is Nothing Then MsgBox "Station not found!",vbExclamation,"ERROR " Exit Sub

End If

Set TAPIStation = station.GetSubStationInterface If TAPIStation Is Nothing Then MsgBox "TAPIStation not found!",vbExclamation,"ERROR " Exit Sub End If

 $blsConnected = TAPIS tation. \\ \textbf{IsConnected}$

MsgBox "IsConnected = " & CStr(bIsConnected), vbInformation, "ERROR "

Set drv = Nothing Set station = Nothing Set TAPIStation = Nothing End Sub

12. TAPIStationInterface Properties

12.1. DisconnectAfterSecs, TAPIStationInterface Property

Syntax Long = station.DisconnectAfterSecs

Description This property sets or returns the time in milliseconds after which the

modem connection of the TAPI Station will hang up. The counter of the time will start from the moment in which all the communication tasks are not in use, and it will be reset if at least one task returns in use before the

expiration of the time.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface

Dim station As StationInterface

Dim TAPIStation As TAPIStationInterface

Dim strPhoneNumber As String

Dim nRetries As Byte

Dim IDisconAfter As Long

Dim IRetryAfter As Long

Dim bEnableTAPI As Boolean

Dim bPrompt As Boolean

Dim bShowCon As Boolean

Set drv = GetDriverInterface("Modbus Serial")

Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

xit Sub

End If

 $Set\ TAPIStation = station. GetSubStationInterface$

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

strPhoneNumber = TAPIStation.**PhoneNumber**

nRetries = TAPIStation.Retries

ID is con After = TAPI Station. DisconnectAfterSecs

IRetryAfter = TAPIStation.RetryAfterSecs

bEnableTAPI = TAPIStation. EnableTAPICallOnThisStation

bPrompt = TAPIStation.**PromptForConnection**

bShowCon = TAPIStation. ShowConnectionDlg

MsgBox "PhoneNumber = " & CStr(strPhoneNumber) & vbLf & _

"Retries = " & CStr(nRetries) & vbLf & _

"DisconnectAfterSecs = " & CStr(IDisconAfter) & vbLf & _

"RetryAfterSecs = " & CStr(IRetryAfter) & vbLf & _

"EnableTAPICallOnThisStation = " & CStr(bEnableTAPI) & vbLf & _

"PromptForConnection = " & CStr(bPrompt) & vbLf & _

"DsrTimShowConnectionDlgeout = " & CStr(bShowCon),vbInformation,"ERROR "

Set drv = Nothing Set station = Nothing Set TAPIStation = Nothing

End Sub

12.2. EnableTAPICallOnThisStation, TAPIStationInterface Property

Syntax Boolean = station.DisconnectAfterSecs

Description This property sets or returns the enable to execute the modem connection

for the Station.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Boolean

True = TAPI call enable False = TAPI call disable

Example:

See the "DisconnectAfterSecs" property example.

12.3. EndConnectionTime, TAPIStationInterface Property

Syntax Date = station.EndConnectionTime

Description This property returns the date and time of end of the last modem

connection of the Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

See the "StartConnectionTime" property example.

12.4. LastConnectionTime, TAPIStationInterface Property

Syntax Date = station.LastConnectionTime

Description This property returns the connection time of the last modem call of the

Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

See the "StartConnectionTime" property example.

12.5. LastTAPIError, TAPIStationInterface Property

Syntax Long = station.LastTAPIError

Description This property returns the last error code occurs during the modem call of

the Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Long

Example:

See the "StartConnectionTime" property example.

12.6. LastTAPIErrorString, TAPIStationInterface Property

Syntax String = station.LastTAPIErrorString

Description This property returns a description text about the state of the modem call

of the Station. This string can be an error message or a state connection

message.

Remarks This property is read-only.

Parameter	Description
None	None

Result String

Example:

See the "StartConnectionTime" property example.

12.7. PhoneNumber, TAPIStationInterface Property

Syntax String = station.PhoneNumber

Description This property sets or returns the telephone number to call.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result String

Example:

See the "DisconnectAfterSecs" property example.

12.8. PromptForConnection, TAPIStationInterface Property

Syntax Boolean = station.PromptForConnection

Description This property allows you to show or hide the connection confirmation

dialog window. If this property is true, before start connection, the Supervisor will show a confirmation dialog window. Only if the user will

click the OK button the Supervisor will start the connection.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description

None	None

Result

True = show the dialog window before connecting

False = don't show the dialog window and start connection

Example:

See the "DisconnectAfterSecs" property example.

12.9. Retries, TAPIStationInterface **Property**

Syntax Byte = station.Retries

Description This property sets or returns the number of retries to execute for the

modem call of the Station when the connection fails.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Byte

See the "DisconnectAfterSecs" property example.

12.10. RetryAfterSecs, TAPIStationInterface Property

Syntax Long = station.RetryAfterSecs

This property sets or returns the time in milliseconds after which the Description

modem connection will be retried if the previous call has failed.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Long

Example:

See the "DisconnectAfterSecs" property example.

12.11. ShowConnectionDlg, TAPIStationInterface Property

Syntax Boolean = station.ShowConnectionDlg

Description This property allows you to show or hide the connection status dialog

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result

True = show dialog window False = hide dialog window

Example:

See the "DisconnectAfterSecs" property example.

12.12. StartConnectionTime, **TAPIStationInterface Property**

Syntax Date = station.StartConnectionTime

This property returns the date and time of begin of the last modem Description

connection of the Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim TAPIStation As TAPIStationInterface

Dim dStartConn As Date Dim dEndConn As Date Dim dTotalConn As Date Dim dLastConn As Date Dim ILastError As Long

Dim strLastErrorString As String

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

"EndConnectionTime = " & CStr(dEndConn) & vbLf & _
"TotalConnectionTime = " & CStr(dTotalConn) & vbLf & _
"LastConnectionTime = " & CStr(dTotalConn) & vbLf & _
"LastTAPIError = " & CStr(dLastError) & vbLf & _
"LastTAPIErrorString = " & CStr(strLastErrorString), vbInformation, "ERROR"

Set drv = Nothing Set station = Nothing Set TAPIStation = Nothing End Sub

End If

12.13. TotalConnectionTime, TAPIStationInterface Property

Syntax Date = station.TotalConnectionTime

Description This property returns the total connection time of the modem call of the

Station. The time is the sum of all calls executed from the start of the

Project.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

See the "StartConnectionTime" property example.

13. TCPIPStationInterface Functions

13.1. GetBaseStationInterface, TCPIPStationInterface Function

Syntax GetBaseStationInterface

Description This function used in this interface returns a "StationInterface" object.

Remarks

Parameter	Description
None	None

Result Object

If Function has been executed successfully it will retrieve a StationInterface

type object, otherwise Nothing is returned.

Example:

Sub Main

Dim drv As DriverInterface

Dim station As StationInterface

Dim RASStation As RASStationInterface

Dim SubRASStation As RASStationInterface Dim TCPIPStation As TCPIPStationInterface

Dim TCPIPStation As TCPIPStationInternat

Dim SubTCPIPStation As StationInterface

Set drv = GetDriverInterface("Modbus TCPIP")

Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

 $MsgBox\ "Station\ not\ found!", vbExclamation, "ERROR\ "$

Exit Sub

End If

Set RASStation = station.GetSubStationInterface

If RASStation Is Nothing Then

MsgBox "RASStation not found!",vbExclamation,"ERROR "

xit Sub

End If

 $Set\ TCPIPS tation = RASS tation. GetBaseStationInterface$

If TCPIPStation Is Nothing Then

MsgBox "TCPIPStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

 $Set\ SubTCPIPS tation = TCPIPS tation. \textbf{GetBaseStationInterface}$

If SubTCPIPStation Is Nothing Then

MsgBox "SubTCPIPStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set SubRASStation = TCPIPStation. GetSubStationInterface

If SubRASStation Is Nothing Then

MsgBox "SubRASStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set drv = Nothing
Set station = Nothing
Set RASStation = Nothing
Set TCPIPStation = Nothing
Set SubTCPIPStation = Nothing

Set SubRASStation = Nothing

End Sub

13.2. GetSubStationInterface, TCPIPStationInterface Function

Syntax GetSubStationInterface

Description This function, according to driver type, used at this level returns a

"TCPIPStationInterface" or "RASStationInterface" object type.

Remarks

Parameter	Description
None	None

Result Object:

TCPIPStationInterface RASStationInterface

Example:

See the "GetBaseStationInterface" property example.

13.3. GetXMLSettings, TCPIPStationInterface Function

Syntax GetXMLSettings

Description Gets all settings of a station in XML format.

Remarks

Parameter	Description
None	None

Result String

Example:

```
Sub Main
        Dim drv As DriverInterface
        Dim station As StationInterface
        Dim RASStation As RASStationInterface
        Dim TCPIPStation As TCPIPStationInterface
        Dim strGetXMLSettings As String
        Set drv = GetDriverInterface("Modbus TCPIP")
        Set station = drv.GetDriverStation("Station1")
        If station Is Nothing Then
                MsgBox "Station not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set RASStation = station.GetSubStationInterface
        If RASStation Is Nothing Then
                MsgBox "RASStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set TCPIPStation = RASStation.GetBaseStationInterface
        If TCPIPStation Is Nothing Then
                MsgBox "TCPIPStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        str Get XML Settings = TCPIPS tation. \textbf{Get XML Settings}
        MsgBox "GetXMLSettings = " & CStr(strGetXMLSettings),vbInformation,"ERROR "
        Set drv = Nothing
        Set station = Nothing
Set TAPIStation = Nothing
        Set SerialStation = Nothing
End Sub
```

14. TCPIPStationInterface Properties

14.1. BackupServerAddress, TCPIPStationInterface Property

Syntax String = station.BackupServerAddress

Description This property sets or returns the IP address of the Backup Server for the

station. Shows the value of the "Backup Server Address" property.

Remarks

Parameter	Description
None	None

Result String

Example:

```
Sub Main
        Dim drv As DriverInterface
        Dim station As StationInterface
        Dim RASStation As RASStationInterface
        Dim TCPIPStation As TCPIPStationInterface
        Set drv = GetDriverInterface("Modbus TCPIP")
        Set station = drv.GetDriverStation("Station1")
        If station Is Nothing Then
                MsgBox "Station not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set\ RASS tation = station. Get SubStation Interface
        If RASStation Is Nothing Then
                MsgBox "RASStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set TCPIPStation = RASStation.GetBaseStationInterface
        If TCPIPStation Is Nothing Then
                MsgBox "TCPIPStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        TCPIPStation.BackupServerAddress = "192.168.0.10"
        TCPIPStation. Switch Server Timeout = 20000
```

MsgBox "BackupServerAddress = " & TCPIPStation.BackupServerAddress & vbLf &

TCPIPStation. SwitchServerTimeout, vbExclamation, "ERROR"

"SwitchServerTimeout = " &

Set drv = Nothing Set station = Nothing Set RASStation = Nothing Set TCPIPStation = Nothing

End Sub

14.2. LocalBoundAddress, TCPIPStationInterface Property

Syntax String = station.LocalBoundAddress

Description This property sets or returns the local IP Address that the station will use

for the connection. This property is useful when on the PC are present two or more network cards. If the field comes lets voids the IP address of the

default card will be used.

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

at least once.

Parameter	Description
None	None

Result String

Example:

See the "ServerAddress" property example.

14.3. LocalBoundPort, TCPIPStationInterface Property

Syntax long = station.LocalBoundPort

Description This property sets or returns the local Port that the station will use for the

connection. If the field comes lets voids the default Port will be used.

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

at least once.

Parameter	Description
None	None

Result Long

Example:

See the "ServerAddress" property example.

14.4. MaxReceive, **TCPIPStationInterface Property**

Syntax Long = station.MaxReceive

Description This property sets or returns the Receiving Buffer Queue (Bytes) for the

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface

Dim RASStation As RASStationInterface Dim TCPIPStation As TCPIPStationInterface

Dim IMaxReceive As Long Dim IMaxSend As Long

Set drv = GetDriverInterface("Modbus TCPIP") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set RASStation = station.GetSubStationInterface

If RASStation Is Nothing Then

MsgBox "RASStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

 $Set\ TCPIPS tation = RASS tation. GetBaseStationInterface$

If TCPIPStation Is Nothing Then

MsgBox "TCPIPStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

IMaxReceive = TCPIPStation. MaxReceive

IMaxSend = TCPIPStation. MaxSend

MsgBox "MaxReceive = " & CStr(IMaxReceive) & vbLf &

"MaxSend = " & CStr(IMaxSend),vbInformation,"ERROR "

Set drv = Nothing

Set station = Nothing

Set RASStation = Nothing

Set TCPIPStation = Nothing

End Sub

14.5. MaxSend, TCPIPStationInterface Property

Syntax Long = station.MaxSend

Description This property sets or returns the Sending Buffer Queue (Bytes) for the

Station.

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

at least once.

Parameter	Description
None	None

Result Long

Example:

See the "MaxReceive" property example.

14.6. RxTimeout, TCPIPStationInterface Property

Syntax Long = station.RxTimeout

Description This property sets or returns the Timeout for the data receiving. This time

is in milliseconds.

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

at least once.

Parameter	Description
None	None

Result Long

Example:

Sub Main

Dim drv As DriverInterface
Dim station As StationInterface
Dim RASStation As RASStationInterface

Dim TCPIPStation As TCPIPStationInterface

Dim IRxTimeout As Long Dim ITxTimeout As Long

Set drv = GetDriverInterface("Modbus TCPIP")
Set station = drv.GetDriverStation("Station1")
If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

```
Set RASStation = station.GetSubStationInterface
        If RASStation Is Nothing Then
                MsgBox "RASStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set TCPIPStation = RASStation.GetBaseStationInterface
        If TCPIPStation Is Nothing Then
                MsgBox "TCPIPStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        IRxTimeout = TCPIPStation.RxTimeout
        ITxTimeout = TCPIPStation.TxTimeout
        MsgBox "RxTimeout = " & CStr(IRxTimeout) & vbLf & _
                "TxTimeout = " & CStr(ITxTimeout),vbInformation,"ERROR "
        Set drv = Nothing
        Set station = Nothing
        Set RASStation = Nothing
        Set TCPIPStation = Nothing
End Sub
```

14.7. ServerAddress, TCPIPStationInterface Property

Syntax String = station.ServerAddress

Description This property sets or returns the Name or the IP Address of the Server to

which the station will be connected.

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

at least once.

Parameter	Description
None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface

Dim station As StationInterface

Dim RASStation As RASStationInterface

Dim TCPIPStation As TCPIPStationInterface

Dim strServerAddress As String

Dim IServerPort As Long

Dim strLocalBoundAddress As String

Dim ILocalBoundPort As Long

Set drv = GetDriverInterface("Modbus TCPIP")

Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set RASStation = station.GetSubStationInterface

If RASStation Is Nothing Then MsgBox "RASStation not found!",vbExclamation,"ERROR " Exit Sub End If Set TCPIPStation = RASStation.GetBaseStationInterface If TCPIPStation Is Nothing Then MsgBox "TCPIPStation not found!",vbExclamation,"ERROR " Exit Sub End If strServerAddress = TCPIPStation.ServerAddress | IServerPort = TCPIPStation.ServerPort strLocalBoundAddress = TCPIPStation.LocalBoundAddress | ILocalBoundPort = TCPIPStation.LocalBoundPort $\label{eq:msgBox} \begin{tabular}{ll} MsgBox "ServerAddress = " \& CStr(strServerAddress) \& vbLf \& _ \\ "ServerPort = " \& CStr(lServerPort) \& vbLf \& _ \\ \end{tabular}$ "LocalBoundAddress = " & CStr(strLocalBoundAddress) & vbLf & "LocalBoundPort = " & CStr(ILocalBoundPort),vbInformation,"ERROR " Set drv = Nothing Set station = Nothing Set RASStation = Nothing Set TCPIPStation = Nothing End Sub

14.8. ServerPort, TCPIPStationInterface Property

Syntax Long = station.ServerPort

Description This property sets or returns the Port number of the Server to which the

station will be connected.

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

at least once.

Parameter	Description
None	None

Result Long

Example:

See the "ServerAddress" property example.

14.9. SwitchServerTimeout, TCPIPStationInterface Property

Syntax Long = station.SwitchServerTimeout

Description This property sets or returns the time, in milliseconds, which passes

between the communication with a server error verification and the attempt to connect to another server. Shows the value of the "Switch

Server Timeout" property.

Remarks

Parameter	Description
None	None

Result Long

Example

See the "BackupServerAddress" property example.

14.10. TxTimeout, TCPIPStationInterface Property

Syntax Long = station.TxTimeout

Description This property sets or returns the Timeout for the data sending. This time

is in milliseconds.

Remarks A modification of this value will come acquired only when the socket will open. For

example on the project startup before that the communication tasks are executed

at least once

Parameter	Description
None	None

Result Long

Example:

See the "RxTimeout" property example.

15. RASStationInterface Functions

15.1. GetBaseStationInterface, RASStationInterface Function

Syntax GetBaseStationInterface

Description This function used in this interface return an object

"TCPIPStationInterface".

Remarks

Parameter	Description
None	None

Result Object

If Function has been executed successfully it will retrieve an object of type

TCPIPStationInterface if , otherwise Nothing is returned.

Example:

Sub Main

Dim drv As DriverInterface

Dim station As StationInterface

Dim RASStation As RASStationInterface Dim SubRASStation As RASStationInterface

Dim TCPIPStation As TCPIPStationInterface

Set drv = GetDriverInterface("Modbus Serial")

Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set RASStation = station.GetSubStationInterface

If RASStation Is Nothing Then

MsgBox "RASStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set TCPIPStation = RASStation. GetBaseStationInterface

If TCPIPStation Is Nothing Then

MsgBox "TCPIPStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set SubRASStation = RASStation. **GetSubStationInterface**

If SubRASStation Is Nothing Then

MsgBox "SubRASStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set drv = Nothing

Set station = Nothing Set RASStation = Nothing Set SubRASStation = Nothing Set TCPIPStation = Nothing

End Sub

15.2. GetSubStationInterface, RASStationInterface Function

Syntax GetSubStationInterface

Description This function used in this interface return an object

"RASStationInterface".

Remarks

Parameter	Description
None	None

Result Object

If Function has been executed successfully it will retrieve an object of type

RASStationInterface if , otherwise Nothing is returned.

Example:

See the "GetBaseStationInterface" property example.

15.3. GetXMLSettings, RASStationInterface Function

Syntax GetXMLSettings

Description Gets all settings of a station in XML format.

Remarks

Parameter	Description
None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim RASStation As RASStationInterface Dim strGetXMLSettings As String

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1")

```
If station Is Nothing Then
                MsgBox "Station not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        Set RASStation = station.GetSubStationInterface
        If RASStation Is Nothing Then
               MsgBox "RASStation not found!",vbExclamation,"ERROR "
                Exit Sub
        End If
        strGetXMLSettings = RASStation.GetXMLSettings
        MsgBox "GetXMLSettings = " & CStr(strGetXMLSettings),vbInformation,"ERROR "
        Set drv = Nothing
        Set station = Nothing
        Set RASStation = Nothing
End Sub
```

15.4. IsConnected, RASStationInterface **Function**

Syntax IsConnected

Gets the connection state of the RAS Station. The "True" value indicates that the Description

station is being connected or already connected.

Remarks

Parameter	Description
None	None

Result

True = Station Connected or is being connected

False = Station not Connected

Example:

Sub Main

Dim drv As DriverInterface Dim station As StationInterface Dim RASStation As RASStationInterface Dim blsConnected As Boolean

Set drv = GetDriverInterface("Modbus Serial") Set station = drv.GetDriverStation("Station1") If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If

Set TAPIStation = station.GetSubStationInterface

If TAPIStation Is Nothing Then

MsgBox "TAPIStation not found!",vbExclamation,"ERROR "

Exit Sub

End If

blsConnected = TAPIStation.lsConnected

MsgBox "IsConnected = " & CStr(bIsConnected), vbInformation, "ERROR "

Set drv = Nothing

Set station = Nothing Set TAPIStation = Nothing End Sub

16. RASStationInterface Properties

16.1. DisconnectAfterSecs, RASStationInterface Property

Syntax Long = station.DisconnectAfterSecs

Description This property sets or returns the time in milliseconds after which the modem

connection of the RAS Station will hang up. The counter of the time will start from the moment in which all the communication tasks are not in use, and it will be

reset if at least one task returns in use before the expiration of the time.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Long

Example:

See the "PhoneBookEntry" property example.

16.2. EnableRASCallOnThisStation, RASStationInterface Property

Syntax Boolean = station.EnableRASCallOnThisStation

Description This property sets or returns the enable to execute the modem connection for the

Station.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Boolean

True = RAS call enable False = RAS call disable

Example:

See the "PhoneBookEntry" property example.

16.3. EndConnectionTime, RASStationInterface Property

Syntax Date = station.EndConnectionTime

Description This property returns the date and time of end of the last modem connection of

the Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

See the "StartConnectionTime" property example.

16.4. LastConnectionTime, RASStationInterface Property

Syntax Date = station.LastConnectionTime

Description This property returns the connection time of the last modem call of the Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

See the "StartConnectionTime" property example.

16.5. LastRASErrorNumber, RASStationInterface Property

Syntax Long = station.LastRASErrorNumber

Description This property returns the last error code occurs during the modem call of the

Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Long

Example:

See the "StartConnectionTime" property example.

16.6. LastRASErrorString, RASStationInterface Property

Syntax String = station.LastRASErrorString

Description This property returns a description text about the state of the modem call of the

Station. This string can be an error message or a state connection message.

Remarks This property is read-only.

Parameter	Description
None	None

Result String

Example:

See the "StartConnectionTime" property example.

16.7. NumRetries, RASStationInterface Property

Syntax Byte = station.NumRetries

Description This property sets or returns the number of retries to execute for the modem call

of the Station when the connection fails.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Byte

Example:

See the "PhoneBookEntry" property example.

16.8. Password, RASStationInterface Property

Syntax String = station.Password

Description This property sets or returns the password of the User selected for the RAS

connection. This field is not used if the property "PhoneBookEntry" is not null.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result String

Example:

See the "PhoneBookEntry" property example.

16.9. PhoneBookEntry, RASStationInterface Property

Syntax String = station.PhoneBookEntry

Description This property sets or returns the name of the connection previously created and

configurated in the Operating System.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result String

Example:

Sub Main

Dim drv As DriverInterface

Dim station As StationInterface

Dim RASStation As RASStationInterface

Dim strPhoneBook As String

Dim strPhoneNumber As String

Dim strUserName As String

Dim strPassword As String

Dim nNumRetries As Byte

Dim IDisconnectAfter As Long

Dim IRetryAfter As Long

Dim bEnableRASCall As Boolean

```
Dim bPromptForConn As Boolean
        Dim bShowConnDlg As Boolean
        Set drv = GetDriverInterface("Modbus TCPIP")
        Set station = drv.GetDriverStation("Station1")
        If station Is Nothing Then
                 MsgBox "Station not found!",vbExclamation,"ERROR "
                 Exit Sub
        End If
        Set RASStation = station.GetSubStationInterface
        If RASStation Is Nothing Then
                 MsgBox "RASStation not found!",vbExclamation,"ERROR "
                 Exit Sub
        End If
        strPhoneBook = RASStation.PhoneBookEntry
        strPhoneNumber = RASStation.PhoneNumber
        strUserName = RASStation. UserName
        strPassword = RASStation.Password
        nNumRetries = RASStation. NumRetries
        IDisconnectAfter = RASStation.DisconnectAfterSecs
        IRetryAfter = RASStation.RetryAfterSecs
        bEnableRASCall = RASStation. EnableRASCallOnThisStation
        b Prompt For Conn = RASS tation. \textbf{PromptFor Connection}
        bShowConnDlg = RASStation.ShowConnectionDlg
        MsgBox "PhoneBookEntry = " & CStr(strPhoneBook) & vbLf & _
"PhoneNumber = " & CStr(strPhoneNumber) & vbLf & _
                 "UserName = " & CStr(strUserName) & vbLf & _
                 "Password = " & CStr(strPassword) & vbLf & _
"NumRetries = " & CStr(nNumRetries) & vbLf &
                 "DisconnectAfterSecs = " & CStr(IDisconnectAfter) & vbLf & _
                 "RetryAfterSecs = " & CStr(IRetryAfter) & vbLf & _
                 "EnableRASCallOnThisStation = " & CStr(bEnableRASCall) & vbLf & _ "PromptForConnection = " & CStr(bPromptForConn) & vbLf & _
                 "ShowConnectionDlg = " & CStr(bShowConnDlg),vbInformation,"ERROR "
        Set drv = Nothing
        Set station = Nothing
        Set RASStation = Nothing
End Sub
```

16.10. PhoneNumber, RASStationInterface Property

Syntax String = station.PhoneNumber

Description This property sets or returns the telephone number to call. This field is not used if

the property "PhoneBookEntry" is not null.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result String

Example:

See the "PhoneBookEntry" property example.

16.11. PromptForConnection, RASStationInterface Property

Syntax Boolean = station.PromptForConnection

Description This property allows you to show or hide the connection confirmation dialog

window. If this property is true, before start connection, the Supervisor will show a confirmation dialog window. Only if the user will click the OK button the Supervisor

will start the connection.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Boolean

True = show the dialog window before connecting

False = don't show the dialog window and start connection

Example:

See the "PhoneBookEntry" property example.

16.12. RetryAfterSecs, RASStationInterface Property

Syntax Long = station.RetryAfterSecs

Description This property sets or returns the time in milliseconds after which the modem

connection will be retried if the previous call has failed.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Long

Example:

See the "PhoneBookEntry" property example.

16.13. ShowConnectionDlg, RASStationInterface Property

Syntax Boolean = station.ShowConnectionDlg

Description This property allows you to show or hide the connection status dialog window.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result Boolean

True = show dialog window False = hide dialog window

Example:

See the "PhoneBookEntry" property example.

16.14. StartConnectionTime, RASStationInterface Property

Syntax Date = station.StartConnectionTime

Description This property returns the date and time of begin of the last modem connection of

the Station.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example:

Sub Main

Dim drv As DriverInterface
Dim station As StationInterface
Dim RASStation As RASStationInterface
Dim dStartConn As Date
Dim dEndConn As Date
Dim dTotalConn As Date

Dim dLastConn As Date Dim lLastError As Long

Dim strLastErrorString As String

Set drv = GetDriverInterface("Modbus TCPIP") Set station = drv.GetDriverStation("Station1")

If station Is Nothing Then

MsgBox "Station not found!",vbExclamation,"ERROR "

Exit Sub

End If Set RASStation = station.GetSubStationInterface If RASStation Is Nothing Then MsgBox "RASStation not found!",vbExclamation,"ERROR " Exit Sub End If dStartConn = RASStation.StartConnectionTime dEndConn = RASStation.EndConnectionTime dTotalConn = RASStation.TotalConnectionTime dLastConn = RASStation.LastConnectionTime $ILastError = RASS tation. \\ \textbf{LastRASErrorNumber}$ strLastErrorString = RASStation.LastRASErrorString MsgBox "StartConnectionTime = " & CStr(dStartConn) & vbLf & _ "EndConnectionTime = " & CStr(dEndConn) & vbLf & _
"TotalConnectionTime = " & CStr(dTotalConn) & vbLf & _ "LastConnectionTime = " & CStr(dLastConn) & vbLf & _ "LastTAPIError = " & CStr(ILastError) & vbLf & _ "LastTAPIErrorString = " & CStr(strLastErrorString),vbInformation,"ERROR " Set drv = Nothing Set station = Nothing Set RASStation = Nothing End Sub

16.15. TotalConnectionTime, RASStationInterface Property

Syntax Date = station.TotalConnectionTime

Description This property returns the total connection time of the modem call of the Station.

The time is the sum of all calls executed from the start of the Project.

Remarks This property is read-only.

Parameter	Description
None	None

Result Date

Example

See the "StartConnectionTime" property example.

16.16. UserName, RASStationInterface Property

Syntax String = station.UserName

Description This property sets or returns the name of the User selected for the RAS

connection. This User must be authenticated by the Server. This field is not used if

the property "PhoneBookEntry" is not null.

Remarks A modification of this value will come acquired only to the following call.

Parameter	Description
None	None

Result String

Example:See the **"PhoneBookEntry"** property example.

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