

ScadaTec Technical Note

ScadaPhone as an ActiveX(OLE) Server

May 24, 2002

Purpose:

This note describes how to access the ScadaPhone tag and alarm data from an external program using ActiveX technologies..

Applies To:

ScadaPhone

Note:

There are now five functions exposed by ScadaPhone as an ActiveX Component:

1. `GetTagList(IncludeDataType,IncludeValue:WordBool):WideString;`

Returns a list containing every tag (except system tags) in ScadaPhone's tag database separated by <CR><LF>. If IncludeDataType is TRUE the list has TagName,DataType on each line. If IncludeValue is TRUE, each line has TagName,DataType,Value on each line.

2. `GetTagValue(TagName:WideString):WideString`

Returns the value of TagName as a string.

3. `GetAlarmList(IncludeAlarmStatus,IncludeAckStatus:WordBool):WideString;`

Returns a list containing every alarm separated by <CR><LF>. If IncludeAlarmStatus & IncludeAckStatus are TRUE each line has AlarmName,AlarmStatus,AckStatus on each line.

4. `GetAckStatus(AlarmName:WideString):WordBool;`

Returns TRUE if AlarmName is active and acknowledged, FALSE if AlarmName is either clear or active and un-acknowledged.

5. `ReloadProject`

This causes ScadaPhone to reload the current ScadaPhone project. This is useful if you want to be able to change the project remotely over a network and then cause ScadaPhone to load and run the changed project without manually going to the PC on which ScadaPhone is running to restart it.

These functions are accessed in the standard ActiveX(OLE Automation) manner from Visual Basic, C++, Delphi, or any other application that supports the instantiation and use of out-of-process ActiveX components. Sample programs are available in Delphi and Visual Basic from ScadaTec technical support. The syntax for creating a reference to the ScadaPhone server is:

1. Delphi

```
private
  { Private declarations }
  OLEServer:Variant;
OLEServer := CreateOLEObject('ScadaPhone.ScadaPhoneTagServer');
```

2. Visual Basic

```
Dim oScadaPhone As ScadaPhone.ScadaPhoneTagServer
Set oScadaPhone = CreateObject("ScadaPhone.ScadaPhoneTagServer")
```