# SMCCOMM.OCX

# Communications Driver for SMC Controllers.

# List of features

	Item	Name	Parameters	Return
Private	Function	SignedInteger()	ByVal NString As String, ByVal MsBytePlace As Long	As Integer
Private	Function	SignedLong()	ByVal NString As String, ByVal MsBytePlace As Long	As Long
Public	Function	CaptureFilename()	ByVal LogFileName As String	As String
Public	Function	Copy()	-	As Long
Public	Function	Disconnect()	-	As Long
Public	Function	GetArraySize()	ArrayName As String	As Integer
Public	Function	GetAxisRecord()	ByVal AxisLetter As String	As AxisInfo
Public	Function	GetEthernetHandleUsag e()	Handle As String	As HandleInfo
Public	Function	GetLocalIP()	-	As String
Public	Function	GetMyHandleOnSMC()	-	As String
Public	Function	GetOccuranceTotal()	InputString As String, Separator As String	As Long
Public	Function	GetProgramLines()	-	As Integer
Public	Function	GetSerialNumber()	-	As String
Public	Function	GetSMCRecord()	-	As SMCInfo
Public	Function	LinesInController()	-	As Integer
Public	Function	Output()	StringOut As String	As Long
Public	Function	Paste()	-	As Long
Public	Function	SendCommand2()	CommandToSend As String, Optional CMD As Boolean = true, Optional CheckEcho As Boolean=true, Optional VerifySuccess as Boolean=True	As String
Public	Function	Upload()	-	As String
Public	Function	UploadArray()	ArrayName As String, StartIdx As Integer, EndIdx As Integer	As String
Public	Property Get	Appearance()	-	As Integer
Public	Property Get	BackColor()	-	As OLE_COLOR
Public	Property Get	BorderStyle()	-	`
Public	Property Get	CheckSMCecho()	-	As CheckSMCechoType
Public	Property Get	CommSettings()	-	As String
Public	Property Get	CommType()	-	As CommTypes

Public	Public	Property Get	DTREnable()	-	As Boolean
Public   Property Get   Font()   -	Public	Property Get	EchoOn()	-	As Boolean
Public	Public	Property Get	Enabled()	-	As Boolean
Public   Property Get   FontItalic()	Public	Property Get	Font()	-	As Font
Public   Property Get   FontName()   - As String   As String   Public   Property Get   FontSize()   - As Boolean   As Boolean   Public   Property Get   FontSixe()   - As Boolean   As Boolean   Public   Property Get   FontColor()   - As Boolean   As B	Public	Property Get	FontBold()	-	As Boolean
Public   Property Get   FontSize()   -	Public	Property Get	FontItalic()	-	As Boolean
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Public	Public	Property Get	FontSize()	-	As Single
Public	Public	Property Get	FontStrikethru()	-	As Boolean
Public Property Get Noval National Public Property Get Noval National Public Property Get Noval National Public Property Get MousePointer () - As Picture Public Property Get MousePointer () - As Picture Public Property Get MyIP() - As String Public Property Get Noval Public Property Get Noval Public Property Get Noval Public Property Get Port() - As Boolean As Boolean Public Property Get Pert() - As Integer Protocol() - As String Public Property Get RemoteHost() - As Long Public Property Get ReplyTimeout() - As Long Public Property Get ReplyTimeout() - As Long Public Property Get ReplyTimeout() - As Boolean Public Property Get SelStart() - As Boolean Public Property Get SelStart() - As Boolean Public Property Get SelStart() - As Long Public Property Get SelStart() - As String Public Property Get SendPercentage() - As Integer Property Get SendPercentage() - As Integer Property Get Text() - As String Public Property Get BackColor() ByVal New Appearance As Integer Public Property Let BackColor() ByVal New BackColor As OLE COLOR - Public Property Let BackColor() ByVal New BackColor As OLE COLOR - Public Property Let BackColor() ByVal New BackColor As DLE COLOR - Public Property Let CommType() Value As CommTypes - Dublic Property Let CommSettings() ByVal New BackColor As Boolean - Public Property Let Enabled() ByVal New CommSettings As String - Public Property Let Enabled() ByVal New Fortitalic As Boolean - Public Property Let Fontitalic() ByVal New Fortitalic As Boolean - Public Property Let Fontitalic() ByVal New Fortitalic As Boolean - Public Property Let Fontitalic() ByVal New Fortitalic As Boolean - Public Prop	Public	Property Get	FontUnderline()	-	As Boolean
Public   Property Get   Mouselcon()   -	Public	Property Get	ForeColor()	-	As OLE_COLOR
Public   Property Get   MousePointer()   -	Public	Property Get	Handshaking()	-	As HandshakeConstants
Public Property Get MyIPO - As String Public Property Get MyIPO - As String Public Property Get Port() - As Boolean Public Property Get Port() - As Boolean Public Property Get Port() - As Integer Public Property Get Protocol() - As ProtocolConstants Public Property Get RemoteHostIPO - As String Public Property Get RemoteHostIPO - As Long Public Property Get RemoteHostIPO - As Long Public Property Get RemoteHostIPO - As Long Public Property Get ReplyTimeout() - As Boolean As Long Public Property Get Self-Ext() - As Boolean As Long Public Property Get Self-Ext() - As Long Public Property Get Self-Ext() - As String Public Property Get Self-Ext() - As String Public Property Get Self-Ext() - As String Public Property Get Text() - As String Public Property Get Text() - As String Public Property Get Text() - As String Public Property Let Appearance() ByVal New Appearance As Integer Public Property Let BackColor() ByVal New BackColor As OLE COLOR - Public Property Let BorderStyle() ByVal New BackColor As OLE COLOR - Public Property Let CheckSMCecho() ByVal New BackColor As OLE COLOR - Public Property Let CheckSMCecho() ByVal New BorderStyle As Integer Public Property Let CheckSMCecho() ByVal New BorderStyle As Integer - Public Property Let CheckSMCecho() ByVal New CommSettings As String - Public Property Let CheckSMCecho() ByVal New CommSettings As Boolean - Public Property Let EchoOn() ByVal New CommSettings As Boolean - Public Property Let FontBold() ByVal New FontSize As Singe - Public Property Let FontBold() ByVal New FontSize As Singe - Public Property Let FontBold() ByVal New FontSize As Singe - Public Property Let FontBold() ByVal New FontSize As Singe - Public Property Let FontBold() ByVal New FontSize As Singe - Public Property Let FontBold() ByVal New FontSize As Singe - Public Prope	Public	Property Get	hwnd()	-	As Long
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Public Property Let BorderStyle() ByVal New BorderStyle As Integer - Public Property Let CheckSMCecho() ByVal CheckType As CheckSMCechoType - Public Property Let CommSettings() ByVal New CommSettings As String - Public Property Let CommType() Value As CommTypes - Public Property Let DTREnable() ByVal New DTREnable As Boolean - Public Property Let EchoOn() ByVal New EchoOn As Boolean - Public Property Let Enabled() ByVal Enabled As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontItalic() ByVal New FontItalic As Boolean - Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontOlor() ByVal New FontUnderline As Boolean - Public Property Let FontOlor() ByVal New FontUnderline As Boolean - Public Property Let FontOlor() ByVal New FontOlor As OLE_COLOR -	Public	Property Let	Appearance()	ByVal New Appearance As Integer	-
Public Property Let CheckSMCecho() ByVal CheckType As CheckSMCechoType - Public Property Let CommSettings() ByVal New CommSettings As String - Public Property Let CommType() Value As CommTypes - Public Property Let DTREnable() ByVal New DTREnable As Boolean - Public Property Let EchoOn() ByVal New EchoOn As Boolean - Public Property Let Enabled() ByVal Enabled As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontItalic() ByVal New FontItalic As Boolean - Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontOlor() ByVal New FontUnderline As Boolean - Public Property Let FontOlor() ByVal New FontUnderline As Boolean - Public Property Let FontOlor() ByVal New FontColor As OLE_COLOR -	Public	Property Let	BackColor()	ByVal New BackColor As OLE COLOR	-
Public Property Let CommSettings() ByVal New CommSettings As String - Public Property Let CommType() Value As CommTypes - Public Property Let DTREnable() ByVal New DTREnable As Boolean - Public Property Let EchoOn() ByVal New EchoOn As Boolean - Public Property Let Enabled() ByVal Enabled As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontItalic() ByVal New FontItalic As Boolean - Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	BorderStyle()	ByVal New BorderStyle As Integer	-
Public Property Let CommSettings() ByVal New CommSettings As String - Public Property Let CommType() Value As CommTypes - Public Property Let DTREnable() ByVal New DTREnable As Boolean - Public Property Let EchoOn() ByVal New EchoOn As Boolean - Public Property Let Enabled() ByVal Enabled As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontItalic() ByVal New FontItalic As Boolean - Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	CheckSMCecho()	ByVal CheckType As CheckSMCechoType	-
Public Property Let EchoOn() ByVal New EchoOn As Boolean - Public Property Let EchoOn() ByVal New EchoOn As Boolean - Public Property Let Enabled() ByVal Enabled As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontItalic() ByVal New FontItalic As Boolean - Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontColor() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	CommSettings()	ByVal New CommSettings As String	-
Public Property Let EchoOn() ByVal New EchoOn As Boolean - Public Property Let Enabled() ByVal Enabled As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontItalic() ByVal New FontItalic As Boolean - Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	CommType()	Value As CommTypes	-
Public Property Let FontBold() ByVal Enabled As Boolean - Public Property Let FontBold() ByVal New FontBold As Boolean - Public Property Let FontItalic() ByVal New FontItalic As Boolean - Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	DTREnable()	ByVal New DTREnable As Boolean	-
Public Property Let FontBold() ByVal New FontBold As Boolean -  Public Property Let FontItalic() ByVal New FontItalic As Boolean -  Public Property Let FontName() ByVal New FontName As String -  Public Property Let FontSize() ByVal New FontSize As Single -  Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean -  Public Property Let FontUnderline() ByVal New FontUnderline As Boolean -  Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	EchoOn()	ByVal New EchoOn As Boolean	-
Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	Enabled()	ByVal Enabled As Boolean	-
Public Property Let FontName() ByVal New FontName As String - Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	FontBold()	ByVal New FontBold As Boolean	-
Public Property Let FontSize() ByVal New FontSize As Single - Public Property Let FontStrikethru() ByVal New FontStrikethru As Boolean - Public Property Let FontUnderline() ByVal New FontUnderline As Boolean - Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	FontItalic()	ByVal New FontItalic As Boolean	-
Public       Property Let       FontStrikethru()       ByVal New FontStrikethru As Boolean       -         Public       Property Let       FontUnderline()       ByVal New FontUnderline As Boolean       -         Public       Property Let       ForeColor()       ByVal New ForeColor As OLE_COLOR       -	Public	Property Let	FontName()	ByVal New FontName As String	-
Public     Property Let     FontUnderline()     ByVal New FontUnderline As Boolean     -       Public     Property Let     ForeColor()     ByVal New ForeColor As OLE_COLOR     -	Public	Property Let	FontSize()	ByVal New FontSize As Single	-
Public Property Let ForeColor() ByVal New ForeColor As OLE_COLOR -	Public	Property Let	FontStrikethru()	ByVal New FontStrikethru As Boolean	-
	Public	Property Let	FontUnderline()	ByVal New FontUnderline As Boolean	-
Public Property Let Handshaking() ByVal New Handshaking As HandshakeConstants -	Public	Property Let	ForeColor()	ByVal New ForeColor As OLE_COLOR	-
	Public	Property Let	Handshaking()	ByVal New Handshaking As HandshakeConstants	-
Public Property Let MousePointer() ByVal New MousePointer As Integer -	Public	Property Let	MousePointer()	ByVal New MousePointer As Integer	-

Public	Property Let	Port()	ByVal New Port As Integer	-
Public	Property Let	Protocol()	ByVal New Protocol As ProtocolConstants	-
Public	Property Let	RemoteHost()	ByVal New RemoteHost As String	-
Public	Property Let	RemotePort()	ByVal New RemotePort As Long	-
Public	Property Let	ReplyTimeout()	NewReplyTime As Long	-
Public	Property Let	RTSEnable()	ByVal New RTSEnable As Boolean	-
Public	Property Let	SelLength()	ByVal New SelLength As Long	-
Public	Property Let	SelStart()	ByVal New SelStart As Long	-
Public	Property Let	SelText()	ByVal New SelText As String	-
Public	Property Let	Text()	ByVal New Text As String	-
Public	Property Let	ToolTipText()	ByVal New ToolTipText As String	-
Public	Property Set	MouseIcon()	ByVal New MouseIcon As Picture	-
Public	PropertySet	Font()	ByVal New Font As Font	-
Public	Static Function	SendCommand()	CommandToSend As String	As String
Public	Sub	AddText()	Str As String	-
Public	Sub	Connect()	-	-
Public	Sub	Download()	SMCFile As String, Optional Verify As Boolean = false	-
Public	Sub	DownloadArray()	ArrayName As String, ArrayFile As String, Delimiter As String, StartIdx As Integer, EndIdx As Integer, Optional Verify As Boolean=false	-
Public	Sub	TestProgress()	Marked for deletion	-
Public	Event	Click()	-	-
Public	Event	ConnectError()	ErrorCode As Integer, ErrorDescription As String	-
Public	Event	DblClick()	-	-
Public	Event	KeyDown()	KeyCode As Integer, Shift As Integer	-
Public	Event	KeyPress()	KeyAscii As Integer	-
Public	Event	KeyUp()	KeyCode As Integer, Shift As Integer	-
Public	Event	MouseDown()	-	-
Public	Event	MouseMove()	-	-
Public	Event	MouseUp()	Button As Integer, Shift As Integer, x As Single, Y As Single	-
Public	Event	ProgressStatus()	PercentCompleted As Integer, EventDescription As String	-
Public	Event	Resize()	-	-
Public	Event	SendComplete()	-	-
			<u> </u>	

# Properties -

- About Property
- Appearance Property
- BackColor Property
- BorderStyle Property
- CheckSMCecho Property
- CommSettings Property
- CommType Property
- DTREnable Property
- EchoOn Property
- Enabled Property
- Font Property
- FontBold Property
- FontItalic Property
- FontName Property
- FontSize Property
- FontStrikethru Property
- FontUnderline Property
- ForeColor Property
- Handshaking Property
- hwnd Property
- MouseIcon Property
- MousePointer Property
- OnlineStatus Property
- Port Property
- Protocol Property
- RemoteHost Property
- RemotePort Property
- ReplyTimeout Property
- RTSEnable Property
- SelLength Property
- SelStart Property
- SelText Property
- SerialUpdateRate Property
- Text Property
- ToolTipText Property

#### - Methods -

- AddText Method
- CaptureFilename Method
- Connect Method
- Copy Method
- Disconnect Method
- Download Method
- Download\_new Method
- DownloadArray Method
- GetArraySize Method
- GetAxisRecord Method
- GetEthernetHandleUsage Method
- GetLocalIP Method
- GetMyHandleOnSMC Method
- GetOccuranceTotal Method
- GetProgramLines Method
- GetSerialNumber Method
- getSMCMode Method
- GetSMCRecord Method
- Output Method
- Paste Method
- Refresh Method
- SendCommand Method
- SendCommand2 Method
- SetFocus2 Method
- UpgradeSMCfirmware Method
- Upload Method
- UploadArray Method

# - Events -

- Click Event
- ConnectError Event
- **DblClick Event**
- KeyDown Event
- KeyPress Event KeyUp Event
- MouseDown Event
- MouseMove Event
- MouseUp Event
- ProgressStatus Event
- PropertyOutOfRange Event
- Resize Event

# - Error Constants -

Error	Code	Description
cErrComTime	1	Communication Timeout. Communications was silent for the ReplyTimeout interval before the command was acknowledged.
cErrTC1ret	2	
cErrComErr	3	
cErrNoHandle	4	
cErrSerrHandle	5	
cErrDLFail	6	Program download failed.
cErrDLLabel	7	Program download failed because of a duplicate label or too many labels.
cErrDLLine	8	Program download failed because a program line was too long.
cErrComEcho	9	
cErrComCmdVerify	10	
cErrComQDErr	11	
cErrBadHandle	12	
cErrULFail	13	Program upload failed.
cErrNoAxis	14	
cErrAxRec	15	

# - Enumerations -

- CheckSMCechoType Enumeration
- CommTypes Enumeration

# **Custom Properties**

This section contains reference information for each of the custom properties supported by the SMCComm Driver.

- CheckSMCecho
- CheckSMCechoType
- CommSettings
- CommType DTREnable
- EchoOn
- Handshaking
- MyIP
- **OnLineStatus**
- Port
- Protocol
- RemoteHost
- RemoteIP
- RemoteProtocol
- ReplyTimeOut
- RTSEnable
- SelLength
- SelStart
- SelText

#### CheckSMCecho

### (Custom Property)

#### Purpose:

This property configures the control to either: detect echo automatically(Auto), chech for echo to be on(SMCechoOn), or ignore echo(SMCechoOff).

#### Syntax:

Terminal1.CheckSMCecho = 1

#### Design Time Interface:

Drop Down List Box

#### Data Type:

Integer. The choices are enumerated as CheckSMCEchoType. The default value is Auto.

Choice	Value
Auto	0
SMCechoOn	1
SMCechoOff	2

#### Applicability

Serial	Yes
Ethernet	No, SMC does not echo over Ethernet

#### Call Tree

CheckSMCecho [Get] CheckSMCecho [Let]

- CheckRange
- -- PropertyOutOfRange

#### Related Information:

The Property *ReplyTimeout* is the amount of time the driver will wait for an echo.

<u>Auto</u>: The control will check the response string from the SMC controller and determine if the original command exists in the return string. This is the echo, and the driver will detect this condition. This assures that the original message was received by the SMC controller exactly. This check will be performed every transmission and slow down communications when there is no echo. If the controller is set for echo (EO Command) the delay will be minimal. During no echo conditions the delay will equal the transmission timeout property called *ReplyTimeout*.

<u>SMCEchoOn</u>: The driver will require that the response string from the SMC controller contains the original message. If the original message is not found, then communications is assumed to have failed, and a message retry is automatically attempted. The controller must be in an EO1 (echo on) state.

 $\underline{SMCEchoOff} \hbox{: } \hbox{The driver will not check the response string for the original message, and therefore never attempt a retry caused by a bad transmission.}$ 

### Example

Terminal1.CheckSMCecho = 0

#### Error Event

If the CheckSMCEcho property is set to a value that is out of range the PropertyOutOfRange event will be raised.

### **CommSettings**

### (Custom Property)

#### Purpose:

Sets/returns the baud rate, parity, data bits, and stop bit parameters.

Syntax:

```
Terminal1.CommSettings = "19200,n,8,1"
```

Design Time Interface:

String Entry

#### Data Type:

String of four parameters. The default is "19200,n,8,1"

Parameter	Description	Value
1	Baud Rate	2400, 4800, 9600, 19200, 38400
2	Parity	must be "n" for SMC controllers
3	Data Bits	must be "8" for SMC controllers
4	Stop Bits	must be "1" for SMC controllers

#### Applicability

Serial	Yes
Ethernet	No

#### Call Tree

CommSettings [Get]
CommSettings [Let]

#### Related Information:

This property is referenced by the *Connect* method.

The SMC2000 can connect at any of the listed baud rates provided that the controllers internal DIP switches are configured properly. 19200 is the default baud rate. The switches configure port one on the SMC2000 only. Port two's baud rate is configured by software.

The SMC3010/4000 can connect at either 9600 or 19200. 19200 is the default baud rate, and is set by DIP switch on the controller board.

#### Example

```
Terminal1.Port = 1
Terminal1.CommType = serial
Terminal1.CommSettings = "19200,n,8,1"
```

### Error Events

Currently there are no error events for CommSettings. Should have error if baud rate is out of range, and if last three parameters are not n,8,1 or not take the last three parameters as part of the property. Just add them to the baud rate the user enters.

### CommType

# (Custom Property)

#### Purpose:

This property configures the control to direct communications to either the serial port or an Ethernet connection.

#### Syntax:

Terminal1.CommType = 1

#### Design Time Interface:

Drop Down List Box

#### Data Type:

Integer. The default is Serial.

Choice	Value
Serial	0
Ethernet	1

#### Applicability

Serial	Yes
Ethernet	Yes

#### Call Tree

```
CommType [Let]
- CheckRange
-- PropertyOutOfRange
CommType [Get]
```

#### Related Information:

This property is referenced by the *Connect* method.

#### Example

```
Terminal1.CommType = Ethernet
Terminal1.RemoteHost = TempS
Msg = "IP: " & TempS
StatusBar.Panels(2).ToolTipText = " PCs IP: " & Terminal1.MyIP
HostAdress.Text = TempS
```

#### Error Event

None

#### Raised Event

 ${\tt PropertyOutOfRange}$ 

### **DTREnable**

# (Custom Property)

Purpose:

Determines whether to enable the Data Terminal Ready line during communications.

Syntax:

Terminal1.DTREnable=true

Design Time Interface:

Drop Down List Box

Data Type:

Select True or False. The default is true.

Applicability

Serial	Yes
Ethernet	No

Call Tree

DTREnable [Get]
DTREnable [Let]

- CheckRange
  - -- PropertyOutOfRange
- Example
- Error Event

None

Raised Event

PropertyOutOfRange

#### **EchoOn**

# (Custom Property)

#### Purpose:

Sets/Returns if the terminal window should echo the characters sent and received from the controller.

Syntax:

Terminal1.DTREnable=true

Design Time Interface:

Drop Down List Box

Data Type:

Select True or False. The default is True.

#### Applicability

Serial	Yes
Ethernet	Yes

#### Call Tree

```
EchoOn [Get]
EchoOn [Let]
- CheckRange
-- PropertyOutOfRange
```

#### Example

```
If CommTypeProperty = Ethernet Then
   Winsock.SendData StringOut
   If EchoOn Then AddText StringOut
Else
   If MSComm.OutBufferCount > 0 Then
        MsgBox "here in output"
        MsgBox "in= " & MSComm.InBufferCount
        MsgBox "out= " & MSComm.OutBufferCount
        MsgBox "hds= " & MSComm.Handshaking
   End If
   MSComm.Output = StringOut
End If
```

#### Error Event

None

Raised Event

 ${\tt PropertyOutOfRange}$ 

# Handshaking

# (Custom Property)

Purpose:

Sets or returns the serial port handshaking protocol.

Syntax:

Terminal1. Handshaking=comRTS

Design Time Interface:

Drop Down List Box

Data Type:

Integer. The default is comRTS.

Value	Description	
0	comNone	
2	comRTS	

#### Applicability

Serial	Yes
Ethernet	No

Call Tree

Handshaking [Get]
Handshaking [Let]

- PropertyOutOfRange

#### Related Information:

Hardware handshaking is the recommended communications method. Only comNone or comRTS are possible selections, the SMC controllers do not support software handshaking (XOnXOff)

Example

Error Event

None

Raised Event

PropertyOutOfRange

# **OnLineStatus**

# (Custom Property)

Purpose:

Read only property that indicates the connection status of the control.

Syntax:

If OnLineStatus=true then MsgBox "Online!" Endif

Design Time Interface:

None.

Data Type:

Boolean. There is no default because this is a read only property.

Applicability

Serial	Yes
Ethernet	Yes

Call Tree

OnlineStatus [Get]

- Example
- Error Event

None.

#### **Port**

# (Custom Property)

Purpose:

Sets/returns the communications port number.

Syntax:

```
Terminal1.Port=1
```

Design Time Interface:

```
Integer. The default is 1.
```

Data Type:

Integer. Typically the computer ports are numbered 1 through 4.

Applicability

Serial	Yes
Ethernet	No

Call Tree

```
Port [Get]
Port [Let]
```

Example

Error Event

None

Raised Event

None

# **Protocol**

# (Custom Property)

Purpose:

Sets / Returns the protocol to use for communications over Ethernet.

Syntax:

Terminal1.Protocol=0

Design Time Interface:

Drop Down List Box

Data Type:

Integer. The default is sckTCPProtocol.

Value	Description
0	sckTCPProtocol
1	sckUDPProtocol

Applicability

Serial	No
Ethernet	Yes

Call Tree

Protocol [Get] Protocol [Let]

- CheckRange
- -- PropertyOutOfRange
- Example
- Error Event

None

Raised Event

PropertyOutOfRange

#### RemoteHost

# (Custom Property)

#### Purpose:

Returns/Sets a name used to identify the remote SMC Controller. This can be either the IP address of the device or an alias.

Syntax:

Terminal1.RemoteHost="192.168.3.100"

Design Time Interface:

**Text Entry** 

Data Type:

String. The default is an empty string.

Applicability

Serial	No
Ethernet	Yes

Call Tree

```
RemoteHost [Get]
RemoteHost [Let]
- PropertyOutOfRange
```

Example

```
TempS = InputBox("Enter an IP address ", "IP", HostAdress.Text)
If TempS = "" Then
          Forml.Enabled = True
          Exit Sub
End If
Terminal1.CommType = Ethernet
Terminal1.RemoteHost = TempS
```

Error Event

None

Raised Event

PropertyOutOfRange

# ReplyTimeout

# (Custom Property)

#### Purpose:

Returns or sets the maximum allowable time for the application to wait for the SMC controller start responding to a command. This is the maximum amount of silent time that can exist while waiting for the controller to complete it's response.

#### Syntax:

Terminal1.ReplyTimeout = 1000

#### Design Time Interface:

Text entry.

#### Data Type:

Long. The default is 300 milliseconds.

#### Applicability

Serial	Yes
Ethernet	Yes

#### Related Information:

ReplyTimeout is in milliseconds

#### Example

Terminal1.ReplyTimeout = 400

#### Error Event

Currently there is no error event for ReplyTimeout.

### **RTSEnable**

# (Custom Property)

Purpose:

Determines whether to enable the Request To Send line.

Syntax:

Terminal1.RTSEnable = True

Design Time Interface:

True / False drop down box.

Data Type:

Boolean. The default is true.

Applicability

Serial	Yes
Ethernet	No

Related Information:

This property is only necessary if you wish to manually set the hardware handshake line.

- Example
- Error Events

Currently there are no error events.

# SelLength

# (Custom Property)

Purpose:

Returns/sets the number of characters selected in the terminal window.

Syntax:

Terminal1.SelLength=25

Design Time Interface:

Text Entry

Data Type:

Integer. The default is 0.

Applicability

Serial	Yes
Ethernet	Yes

- Related Information:
- Example
- Error Events

Currently there are no error events for SelLength.

# **SelStart**

# (Custom Property)

Purpose:

Returns/sets the start point of characters selected in the terminal window.

Syntax:

Terminal1.SelStart=25

Design Time Interface:

Text Entry

Data Type:

Integer. Default value is zero.

Applicability

Serial	Yes
Ethernet	Yes

- Related Information:
- Example
- Error Events

### **SelText**

# (Custom Property)

Purpose:

Returns/sets the string containing the currently selected text.

Syntax:

Terminal1.SelStart=25

Design Time Interface:

**Text Entry** 

Data Type:

Integer. The default is an empty string

Applicability

Serial	Yes
Ethernet	Yes

- Related Information:
- Example

```
Select Case Index

Case 0 'Copy Selected Text

Clipboard.Clear

Clipboard.SetText Terminall.SelText

Case 1 'Copy All Text

Clipboard.Clear

Clipboard.SetText Terminall.Text

Case 2 'Paste Text

Terminall.Output Clipboard.GetText

Case 7 'Clear Window

Terminall.Text = ""

End Select
```

#### Error Events

Currently there are no error events for SelText.

### **Methods**

This section contains reference information for each of the methods supported by the SMCComm Driver.

- AddText
- CaptureFileName
- Connect
- Copy
- Disconnect
- Download
- DownloadArray
- GetArraySize
- GetAxisRecord
- GetEthernetHandleUsage
- GetLocalIP
- GetMyHandleOnSMC GetOccuranceTotal
- GetProgramLines
- GetSerialNumber
- GetSMCRecord
- LinesInController
- SendCommand
- Upload
- . UploadArray

# **AddText**

(Method)

Purpose:

Adds text to the terminal window

Syntax:

Terminal1.AddText(Str as string)

Data Type:

String. The default is an empty string.

Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

- Related Information:
- Example
- Error Event

A standard Vb Error code will be raised in the event of an error.

# CaptureFileName

(Method)

#### Purpose:

Specify a full path filename which will be the location where all communications that occurs between the SMC controller and the computer will be stored.

#### Syntax:

Terminal1.CaptureFilename (LogfileName as String) as String

#### Data Type:

String. The default is an empty string.

#### Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

#### Related Information:

- If a file already exists with the same name, the terminal characters will be appended to it.
- If communications is already being logged to the specified file, the method exits, leaving the log function enabled.
- If an empty string filename is specified, logging stops.

#### Example

#### Error Event

The CaptureFileName method has an error handler that will pass back error descriptions of standard file access errors.

### **Connect**

(Method)

#### Purpose:

To connect the computer to an SMC controller via either serial port or Ethernet.

#### Syntax:

Terminal1.Connect

#### Data Type:

None

#### Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

#### Related Information:

This subroutine uses the following properties to make a connection:

Data	Usage
CommTypeProperty	Preset to either 1 for Serial or 2 for Ethernet

This subroutine sets the following properties during execution:

Data	Usage
m_EchoOn	True if Successful
Enabled	True if Successful
OnLine	True if Successful

This subroutine immediately exits without error if the OCX is already Online with a controller.

#### Example

#### Error Event

If a connection could not be made, an error event is raised with the cErrComTime (1) error code.

### **Disconnect**

(Method)

#### Purpose:

To disconnect the computer from an SMC controller via either serial port or Ethernet.

#### Syntax:

Terminal1.Disconnect()

#### Data Type:

Returns a Long. Zero if successful, otherwise it returns the error code.

#### Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

#### Related Information:

This subroutine uses the following properties to make a connection:

Data	Usage
CommTypeProperty	Preset to either 1 for Serial or 2 for Ethernet

This subroutine sets the following properties during execution:

Data	Usage
Enabled	False if Successful
OnLine	False if Successful

#### Example

#### Error Event

This method returns a zero if successful, otherwise it returns the error code. Only standard VB error codes will be returned.

# **GetArraySize**

(Method)

#### Purpose:

To get the defined size of an existing array in the SMCcontroller.

#### Syntax:

Terminall.GetArraySize(ArrayName as string) as integer

#### Data Type:

ArrayName as String. Returns an integer.

#### Applicability

Communication		Product		
Serial	Yes	SMC2000		Yes
Ethernet	Yes	SMC3010/4000		Yes

#### Related Information:

This method uses the LA command in the controller to obtain a listing of all the defined arrays. If the array does not exist in the controller, the method returns a size of zero.

#### Example

#### **GetAxisRecord**

(Method)

#### Purpose:

Returns the information pertaining to an axis in the form of a record.

#### Syntax:

Terminal1.GetAxisRecord(AxisLetter as String) as AxisInfo

#### Data Type:

AxisInfo is a record.

```
Type AxisInfo
   Header1 As Byte
    Header2 As Byte
    Header3 As Byte
    Header4 As Byte
    Status As Long
    Switches As Byte
    StopCode As Byte
    PosCommanded As Long
    PosActual As Long
    PosError As Long
    PosAux As Long
    Velocity As Long
    Torque As Integer
    AnalogIN1 As Integer
    AllAsString As String
End Type
```

#### Applicability

Communication		Product	
Serial	Yes	SMC2000	No
Ethernet	Yes	SMC3010 only	Yes

- Related Information:
- Example
- Error Event

# GetEthernetHandleUsage

(Method)

- Purpose:
- Syntax:

Terminal1.GetEthernetHandleUsage(Handle as String) as HandleInfo

Data Type:

HandleInfo is a record.

Type HandleInfo
ConnectionType As Long 'IHx2
ConnectionTypeDescr As String
SlavePort As Long
IPAddressS As String
IPAddressH As String
End Type

#### Applicability

Communication		Product	
Serial	Yes	SMC2000	No
Ethernet	Yes	SMC3010/4000	Yes

- Related Information:
- Example
- Error Event

### **GetLocalIP**

(Method)

Purpose:

Returns the IP Address of the computer.

Syntax:

Terminal1.GetLocalIP

Data Type:

Returns a string.

Applicability

Serial	Yes, if the computer has an Ethernet adapter card.
Ethernet	Yes

#### Related Information:

For diagnostic purposes. It is recommended to set the first three octets of the IP Address the same as the Computer's address. An invalid address, or a loopback address on the PC side will signal that the PC is not properly configured to communicate over the Ethernet. Please go to network settings and define a valid IP address...

Example

ComputerIP = Terminal1.GetLocalIP

MsgBox "Computer IP Address is " & ComputerIP

Error Event

# **GetMyHandleOnSMC**

(Method)

#### Purpose:

To determine which of the SMC3010/4000's handles the computer is connected. This command is only applicable if the computer is connected to a SMC3010/4000.

#### Syntax:

MyHandle= Terminal1.GetMyHandleOnSMC

#### Data Type:

Returns a string.

#### Applicability

Communication		Product	
Serial	No	SMC2000	No
Ethernet	Yes	SMC3010/4000	Yes

#### Related Information:

This method uses the SMC command \_IH to determine the handle.

#### Example

#### Error Event

#### Possible Errors:

Error Code	Error Name	Description
4	CErrNoHandle	"Can't Find Handle."
5	CErrSerrHandle	"Serial connection does not require a handle."
???	???	"Could not get a valid IP address for this PC."

## **GetProgramLines**

(Method)

Purpose:

Returns the number of program lines of the program in the controller.

Syntax:

Lines = GetProgramLines

Data Type:

Returns an integer. There is no default. The minimum is 0 and the maximum is 999.

Applicability

Communication		Prod	luct
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

- Related Information:
- Example

Lines = GetProgramLines

Error Event

Error Code	Error Name	Description
3	CErrComErr	"Could not get the number of program lines!"

## GetSerialNumber

(Method)

Purpose:

Returns the serial number of the controller.

Syntax:
Terminall.GetSerialNumber

Data Type:
Returns as string

Applicability

Communication		Produc	t
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

## Related Information:

This method uses the command MG \_BN to obtain the serial number of the controller.

- Example
- **Error Event**

## **GetSMCRecord**

(Method)

## Purpose:

Returns a record of data containing detailed information about the controller.

## Syntax:

Terminal1.GetSMCRecord() as SMCInfo

## Data Type:

```
Returns a record.
```

```
Type SMCInfo
    Header1 As Byte
    Header2 As Byte
    Header3 As Byte
    Header4 As Byte
    SMCTime As Long
    InpByte(9) As Byte
OutByte(9) As Byte
    TCCode As Byte
    TBcode As Byte
    SplSegCount As Long
    SplMovStat As Long
    SplDistance As Long
    NotDefined1 As Long
    NotDefined2 As Long
    NotDefined3 As Long
    AxisN As Integer
    Axis(7) As AxisInfo
    AllAsString As String
End Type
```

## Applicability

Communication		Product	
Serial	Yes	SMC2000	No
Ethernet	Yes	SMC3010/4000	Yes

#### Related Information:

This method uses the command MG \_BN to obtain the serial number of the controller.

#### Example

## Error Event

## **Download**

(Method)

#### Purpose:

Downloads an SMC program to a controller.

## Syntax:

Download(SMCFile As String, Optional Verify As Boolean = False)

## Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

## Related Information:

The program file must contain the end of line character <CR> or <CR> <LF> or the controller will reject the program because of a line being too long. No error checking is done to the program in this routine concerning it's validity, however, one of the three errors might occur as a result of downloading:

Line Too long
Duplicate Label or line number
Too many lines

#### Example

#### Error Event

Error Code	Error Name	Description
6	cErrDLFail	"Command Error after download "
6	cErrDLFail	"Download failed because program line is too long."
6	cErrDLFail	"Uploaded & Downloaded versions do not match!"

## **DownloadArray**

(Method)

### Purpose:

Downloads an array of data to a controller.

## Syntax:

Public Sub DownloadArray(ArrayName As String, ArrayFile As String, Delimiter As String, StartIdx As Integer, EndIdx As Integer, Optional Verify As Boolean = False)

## Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

#### Related Information:

Arrayname is the name of an array that exists in the SMC controller.

ArrayFile is the data to store in the array.

Delimiter is the character or characters that separate the data in the ArrayFile string StartIdx is the first element to start entering data. (0 based system)

Endidx is the last element to enter data.(0 based system)

Verify will cause the OCX to upload the array contents and verify that they match the original data.

## Example

Terminal1.DownLoadArray("Demo", ArrayData, vbCR, 1, 1000)

## Error Event

Error Code	Error Name	Description
11	cErrComQDErr	"Command Error after download "
11	cErrComQDErr	"Download failed because program line is too long."
11	cErrComQDErr	"Uploaded & Downloaded versions do not match!"

## **SendCommand**

(Method)

#### Purpose:

Send commands and retrieve replies from the controller.

#### Syntax:

Terminal1.SendCommand(CommandToSend As String) As String

#### Data Type:

Returns a string

## Applicability

Communication		Prod	luct
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

#### Related Information:

SendCommand will automatically add a <CR> to the *CommandToSend* string. SendCommand uses a number of properties, including CheckSMCEcho to determine if an echo should be received. If an exact echo is not received, the method automatically reties after flushing the controller buffer with the "\" character. Four silent retries will be attempted before generating an error. The Method also checks for a valid response signature, which typically consists of a ":" and carriage return <CR>.

SendCommand will not add a <CR> to the CommandToSend string if the last character is a control character. Typically control characters are used to do special things, like terminate program downloads. The control character for this is <CTRL> Z. If you send a string such as <CRTL> R <CTRL> V to obtain the firmware revision, add the <CR> to the CommandToSend string.

If a bad command is sent to the controller, i.e. a string that is not a valid command, an error will be returned indicating the controllers error code, which is obtained by sending the "TC1" command.

### Example

```
Select Case Index
Case 0 'SH
Terminal1.SendCommand ("SH")
Case 1 'MO
Terminal1.SendCommand ("MO")
Case 3 'Lines is a program ?
MsgBox Terminal1.LinesInController
Case 7 'XQ
Terminal1.SendCommand ("XQ")
Case 8 'ST
Terminal1.SendCommand ("ST")
Case 9 'HX
Terminal1.SendCommand ("HX")

Etc....
```

## Error Event

Error Code	Error Name	Description
1	cErrComTime	"Communication Timed Out sending < Command>
		to the controller."
2	cErrTC1ret	"Error was received while trying to send
		<command/> "
3	cErrComErr	"Command Error sending <command/> to the
		controller."
11111	???	"Send retry #" & Str\$(Retry))
11113	???	"Command not valid in Offline mode."

## **Upload**

(Method)

## Purpose:

Uploads an application program from the controller.

Syntax:

Terminal1.Upload() As String

Data Type:

Returns a string

## Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

## Related Information:

Upload returns the entire program from the controller, without program lines. The program lines will be separated by the vbCRLF bytes. Use VB's Split command to break the uploaded program into lines if necessary.

If a bad command is sent to the controller, i.e. a string that is not a valid command, an error will be returned indicating the controllers error code, which is obtained by sending the "TC1" command.

## Example

```
Form2.Caption = "Output from UL command"
Form2.txtOutput = Terminal1.Upload
Form2.Show true
```

## Error Event

## **UploadArray**

(Method)

Purpose:

Uploads an array from the controller.

Syntax:

 ${\it UploadArray(ArrayName\ As\ String,\ StartIdx\ As\ Integer,\ EndIdx\ As\ Integer)\ As\ String}$ 

Data Type:

Returns a string containing the array data separated by commas.

## Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

- Related Information:
- Example
- Error Event

## - Events -

ConnectError ProgressStatus

## ConnectError

(Event)

Purpose:

Executed when there is an Connection Error

Syntax:

ConnectError(ErrorCode As Integer, ErrorDescription As String)

Data Type:

Subroutine

Applicability

Communication		Product		
Serial	Yes	SMC2000	Yes	
Ethernet	Yes	SMC3010/4000	Yes	

Related Information:

Methods that might invoke the ConnectError Event:

Conecct SendCommand GetSMCRecord GetAxisRecord

- Example
- Error Event

## **ProgressStatus**

(Event)

Purpose:

Executed when there is a change in progress of the Upload, Download, UploadArray, or DownloadArray methods.

Syntax:

 $\label{lem:progressStatus} ProgressStatus(PercentCompleted \ As \ Integer, \ EventDescription \ As \ String)$ 

Data Type:

Subroutine

Applicability

Communication		Product	
Serial	Yes	SMC2000	Yes
Ethernet	Yes	SMC3010/4000	Yes

Related Information:

Methods that update the ProgressStatus Event:

Download UpLoad DownLoadArray UploadArray

- Example
- Error Event

## Procedure call tree - SMCComm

## **UserControl Terminal**

Resize

MouseUp

MouseMove

MouseDown

DblClick

Click

KeyUp

KeyPress

KeyDown

ConnectError

ProgressStatus

PropertyOutOfRange

About [Let]

About [Get]

#### CaptureDebugFile

- Output
- -- EchoOn [Get]
- -- AddText

#### CheckRange

- PropertyOutOfRange

#### GetArraySize

- SendCommand
- -- ConnectError
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect

## GetLocalIP

# getSMCMode - ManualOnComm

- -- AddText
- -- ConnectError
- -- Disconnect
- Output
- -- EchoOn [Get]
- -- AddText

#### ManualOnComm

- AddText
- ConnectError
- Disconnect

#### OnComm\_Old

- AddText
- ConnectError
- Disconnect

#### Refresh

SerialUpdateRate [Get]
SerialUpdateRate [Let]

- CheckRange
- -- PropertyOutOfRange

#### SignedLong

#### SignedInteger

#### UpgradeSMCfirmware

- CheckSMCecho [Let]
- -- CheckRange
  - --- PropertyOutOfRange
- Output
- -- EchoOn [Get]
- -- AddText
- ProgressStatus

#### UploadArray

- GetArraySize
- -- SendCommand
  - --- ConnectError
  - --- Output
    - ---- EchoOn [Get]
    - ---- AddText
  - --- ManualOnComm
    - ---- AddText
    - ---- ConnectError
    - ---- Disconnect
- SendCommand
- -- ConnectError
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect
- ProgressStatus

## GetSMCRecord

- ConnectError
- Output
- -- EchoOn [Get]
- -- AddText
- ManualOnComm
- -- AddText
- -- ConnectError
- -- Disconnect
- SignedLong
- SignedInteger

#### GetAxisRecord

- ConnectError
- Output
- -- EchoOn [Get]
- -- AddText
- ManualOnComm
- -- AddText
- -- ConnectError
- -- Disconnect
- SignedLong
- SignedInteger

#### Upload

- GetProgramLines

- -- SendCommand
  - --- ConnectError
  - --- Output
    - ---- EchoOn [Get]
    - ---- AddText
  - --- ManualOnComm
    - ---- AddText
    - ---- ConnectError
    - ---- Disconnect
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- SendCommand
- -- ConnectError
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect
- ProgressStatus

#### GetProgramLines

- SendCommand
- -- ConnectError
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect
- Output
- -- EchoOn [Get]
- -- AddText

#### CaptureFilename

- Output
- -- EchoOn [Get]
- -- AddText

## Enabled [Let]

#### Enabled [Get]

#### GetEthernetHandleUsage

- SendCommand
- -- ConnectError
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect

## GetOccuranceTotal

#### AddText

#### GetSerialNumber

- SendCommand
- -- ConnectError
- -- Output

- --- EchoOn [Get]
- --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect

#### GetMyHandleOnSMC

- SendCommand
- -- ConnectError
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect

#### ReplyTimeout [Let]

- CheckRange
- -- PropertyOutOfRange

#### ReplyTimeout [Get]

#### SendCommand

- ConnectError
- Output
- -- EchoOn [Get]
- -- AddText
- ManualOnComm
- -- AddText
- -- ConnectError
- -- Disconnect

#### SetFocus2

#### Output

- EchoOn [Get]
- AddText

## MSComm\_OnComm

- ConnectError
- AddText
- Disconnect

# terminal\_Change terminal\_Click

- Click

#### terminal DblClick

- DblClick

## terminal\_KeyDown

- KeyDown

#### terminal\_KeyPress

- KeyPress

#### terminal\_MouseDown

- MouseDown

## terminal\_MouseMove

- MouseMove

#### terminal\_MouseUp

- MouseUp

#### Timer1\_Timer

#### tmrCommUpdate\_Timer

- ManualOnComm
- -- AddText
- -- ConnectError

```
-- Disconnect
UserControl_Initialize
UserControl_MouseDown
- MouseDown
UserControl_MouseMove
- MouseMove
UserControl_MouseUp
- MouseUp
UserControl_ReadProperties
- MouseIcon [Set]
UserControl_Resize
- Resize
UserControl_Terminate
UserControl_WriteProperties
- MouseIcon [Get]
ToolTipText [Get]
ToolTipText [Let]
Text [Get]
Text [Let]
SelText [Get]
SelText [Let]
SelStart [Get]
SelStart [Let]
- CheckRange
-- PropertyOutOfRange
SelLength [Get]
SelLength [Let]
- CheckRange
-- PropertyOutOfRange
ForeColor [Get]
ForeColor [Let]
FontUnderline [Get]
FontUnderline [Let]
FontStrikethru [Get]
FontStrikethru [Let]
FontSize [Get]
FontSize [Let]
FontName [Get]
FontName [Let]
FontItalic [Get]
FontItalic [Let]
FontBold [Get]
FontBold [Let]
Font [Get]
Font [Set]
BackColor [Get]
BackColor [Let]
Appearance [Get]
Appearance [Let]
BorderStyle [Get]
BorderStyle [Let]
MousePointer [Get]
MousePointer [Let]
MouseIcon [Get]
MouseIcon [Set]
```

terminal\_KeyUp

- KeyUp

- AddText
- UserControl\_InitProperties
- hwnd [Get]
- RTSEnable [Get]
- RTSEnable [Let]
- CheckRange
- -- PropertyOutOfRange
- RemotePort [Get]
- RemotePort [Let]
- Winsock Close
- Winsock\_Connect
- Winsock\_DataArrival
- AddText

#### Winsock\_Error

- ConnectError
- Disconnect
- Connect
- Disconnect
- Сору
- Paste
- Winsock SendComplete
- Winsock\_SendProgress

#### Download

- SendCommand2
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect
- ProgressStatus
- SendCommand
- -- ConnectError
- -- Output
- --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect

#### DownloadArray

- SendCommand2
  - -- Output
    - --- EchoOn [Get]
    - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect
- GetArraySize
- -- SendCommand
  - --- ConnectError
  - --- Output
    - ---- EchoOn [Get]
    - ---- AddText
  - --- ManualOnComm

- ---- AddText
- ---- ConnectError
- ---- Disconnect
- SendCommand
- -- ConnectError
- -- Output
  - --- EchoOn [Get]
  - --- AddText
- -- ManualOnComm
  - --- AddText
  - --- ConnectError
  - --- Disconnect
- ProgressStatus

## ${\tt SendCommand2}$

- Output
- -- EchoOn [Get]
- -- AddText
- ManualOnComm
- -- AddText
- -- ConnectError
- -- Disconnect

## **Module Module1**

## Form Form1

Text1\_DblClick

Project Analyzer 6.2.02 (12/10/2003) SMCComm v1.1.40