GCP++ TCP/IP Visual Basic Custom Controls

GCP++ is your TCP/IP custom control vendor, with more TCP/IP controls than any competitor! Visual Basic makes it possible to quickly write custom applications, and Dart Communications makes reliable TCP/IP access as easy as setting properties! We specialize each control to a particular protocol, so programmers are not concerned with setting numerous parameters...each control is operational in minutes!

Overview

GCP++ TCP/IP Visual Basic Custom Controls provide a rich set of tools to develop TCP/IP applications within the Visual Basic environment, relieving the programmer of the detailed programming that the Windows Sockets interface requires. Each of Dart's TCP/IP VBX's is designed for a particular programming challenge (UDP, TCP, TFTP, TELNET or VT-200 emulation), greatly simplifying the communications task while lowering both cost and risk.

Dart's TCP/IP VBX's operate over all Windows Sockets compliant kernels, allowing your application to utilize a large installed base of existing TCP/IP licenses.

For a one-time distribution fee, developers may copy and distribute run-time support...NO ROYALTIES!

Controls

All controls support outbound buffering, fault-tolerant operation, explicit event notification, and completely asynchronous, event driven operation:

UDP Datagrams sent and received on any port. Broadcast also supported.

TCP Passive *and* active stream connections.

TELNET Complete option *and* sub-option negotiation support! Passive connections too!

TFTP Get and put files from any UNIX host. Both server and client functionality!

VT-220 Build your own customized emulator using this visual control without writing any TCP/IP *or* emulation code! Dial-up interface included!

Operating Environment

Windows 3.1, Windows for Workgroups 3.11, or Windows NT. Microsoft Visual Basic version 2.0/3.0. GCP++ binds to ***any*** Windows Sockets version 1.1 compliant transport. Microsoft, Lanera, NetManage, Wollongong, Novell, FTP Software, Distinct, Frontier Technologies and others supply this functionality.

Support

Dart Communications provides a money-back guarantee and free installation support for 30 days. The "GCP++ Developers' Forum" is a free mailing list that all GCP++ customers may join, and provides GCP++ technical support as well as a forum to discuss technical and business issues. Software maintenance support package is available. Consulting services are offered.

Installation

Completely automatic. A program manager group is created and populated with icons for applications, help files, documentation, etc.

Licensing Policy

The Single Develop/Run License provides development support and a license to develop and test VB applications using the custom control The Unlimited Run-time license allows you to distribute the custom control, GCP Server, and interface library with your compiled application. If your customer needs to recompile your program, they need to purchase a Single Develop/Run license from Dart Communications. NO ROYALTIES!

Sample Applications

Each Custom Control comes with a working Visual Basic application demonstrating it's operation.

GCP++ VB Property and Event Descriptions

UDP Properties

RemoteAddress Set dot address or name of host for datagram delivery. Read for datagram source.

RemotePort Set remote port for datagram delivery. Read for datagram source.

OpenComm Set to True to open port, set to false to close port.

LocalPort Set local port for datagram transmit/receive

Output Set with your output string and it is sent to the RemoteAddress & RemotePort specified.

Instance Set to identify Output instance (reported in OnOutput event).

ShowServer Set True or False to show TCP/IP Server.

UDP Events

OnOpenComm (Error as Integer) asynchronously reports on opening a UDP port.

OnCloseComm (Error as Integer) asynchronously reports on closing a UDP port.

OnOutput (Instance as Long, Error as Integer) asynchronously reports on sent data (buffering is provided).

OnInput (Buffer as String, Error as Integer) asynchronously reports received data.

TCP Properties

RemoteAddress Set dot address or name of host for TCP connection.

RemotePort Set remote port for TCP connection..

OpenComm Set to True to connect to RemoteAddress & RemotePort, set to false to close connection.

LocalPort Set local port for passive connect.

OpenDaemon Set to True to open passive connect (daemon), set to false to close daemon.

Output Set with your output string and it is buffered for transmission to the connected host.

Instance Same as UDP.

ShowServer Same as UDP.

TCP Events

OnOpenComm (Error as Integer) asynchronously reports on TCP active connection.

OnOpenDaemon (Error as Integer) asynchronously reports on TCP passive connection.

OnCloseComm (Error as Integer) asynchronously reports on closing a TCP connection.

OnCloseDaemon (Error as Integer) asynchronously reports on closing a TCP daemon.

OnOutput (Instance as Long, Error as Integer) Same as UDP.

OnInput (Buffer as String, Error as Integer) Same as UDP.

TELNET Properties are same as TCP plus:

DoCmd Set to value of TELNET command you want to send.

DoOption Set to value of TELNET option you are telling host to do.

DontOption Set to value of TELNET option you are telling host to not do.

WillOption Set to value of TELNET option you are willing to do.

WontOption Set to value of TELNET option you are not willing to do.

SubOption Set to string representing suboption negotiation.

DoSubOption Set to suboption value (utilizes SubOption string).

TELNET Events are same as TCP plus:

OnCmd (Cmd as Integer, TelnetOption as Integer, SubOption as String, Error as Integer) informs you of option negotiation messages from the host.

GCP++ VB Property and Event Descriptions

VT-220 Properties

RemoteAddress	Same as TCP
RemotePort	Same as TCP
OpenComm	Same as TCP
ShowServer	Same as TCP
LogFileName	When set, starts log to specified file
Username	For automatic login
UsernamePrompt	Keys Username send
Password	For automatic login
PasswordPrompt	Keys Password send
ForeColor	To set text color of control
BackColor	To set background color of control
BoldColor	To set bold color for text
CharSet	Set character set from enumerated list
KeyMap	Set key mappings
TermType	VT-220, VT-100, or VT-52
ClearComm	Clears the communication buffers.
Emulate	Set True or False to enable emulation
SevenBitControl	Set True (or False for eight-bit controls)
ClearScreen	Clears the screen
ResetTerminal	Resets terminal to default values.
Columns	Use 80 or 132 char columns
AutoWrap	Wrap if characters go off end of line
KeyPad	Set to Application or Numeric
CursorKeys	Set to Normal or Application
EditKeys	Set to DEC or IBM keyboard mapping
LocalEcho	Echo characters to screen
Copy	Copies highlighted text into Windows Clipboard
Paste	Copies contents of clipboard into display at cursor location.
PrintMode	Set print mode to Normal, Autoprint, or Controller
PrintScreen	Print screen to specified file
Protocol	TELNET or none (Async direct connect to com port)
CommSettings	Com string (ie "com1:9600,n,8,1") if Protocol is none
Output	Same as TCP. Useful for sending modem control strings.
Display	Sends string to the display.
FlowControl	Sets flow control if no Protocol.
EnableInput	If true, send input data from how to OnInput event instead of displaying it.

VT-220 Events

OnOpenComm (Error as Integer) same as TCP.

OnCloseComm (Error as Integer) same as TCP.

Console (Message as String) provides console messages

OnInput (Buffer as String, Error as Integer) same as TCP. EnableInput must be True for this to work.

TFTP Properties

RemoteAddress	Set dot address or name of host for file transfer
RemoteFileSpec	Set file specification to reference remote file.
OutputFileSpec	When set, file is sent to remote host.
InputFileSpec	When set, file is input from remote host.
OpenComm	Set to True to initialize TFTP client. Set to False to terminate TFTP client.
OpenDaemon	Set to True to initialize TFTP server. Set to False to terminate TFTP server.
Instance	Set to identify file transfer instance (reported in OnOutput event)
Mode	Set to identity binary or text transfer.
ShowServer	Same as UDP

TFTP Events

OnOpenComm (Error as Integer) asynchronously reports TFTP client is initialized.

OnClose(Error as Integer) asynchronously reports TFTP client is terminated

OnOpenDaemon (Error as Integer) asynchronously reports TFTP server is initialized.

OnCloseDaemon (Error as Integer) asynchronously reports TFTP server is terminated.

OnOutputFile (LocalFileSpec as String, Instance as Long, Error as Integer) reports file was sent by server or client

OnInputFile (LocalFileSpec as String, Instance as Long, Error as Integer) reports file was received by server or client