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**Information and File Descriptions for GCP++ - 27 May 1994**  
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This document includes information that was not included in the standard documentation, and describes the files that have been included. Please access GCP\_C.HLP and GCP\_VB.HLP for a complete description of the GCP TCP/IP server and associated interfaces.

Depending upon the GCP++ package purchased, only some of the files described below will be included in your distribution.

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**NEW VT-220 for Workgroups!**  
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Dart now offers a fully-functioning VT-100/220 emulator operating over both TELNET and com port/direct connect transport. Download VT220.EXE from the Microsoft Basic+ Forum on compuserve, or look for it on any CICA (or mirror) site on the internet.

Dart also licenses the VT-220 Visual Basic custom control to other developers.

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**32-bit version in the works!**  
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Dart is preparing a new product line, PowerTCP, that will provide 32-bit functionality for our users...coming up later this year!

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**VB Control Licensing Policy**  
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Effective April 20, Dart went to a two-tier licensing structure for the VB controls:

Single Development/Run License - Providing TCP/IP functionality at a low entry point, this license is priced low for R&D, evaluation, and home use. The GCP server icon is shown while the application is active.

Unlimited Run License - Suitable for use by the integrator or VB developer, this license provides for the distribution of run-time support with your product. The GCP server icon is hidden by default, but can be shown/hidden if desired.

We charge **no royalty fees**, and our products work on all supported Windows Sockets compliant kernels.

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**News Flash !**  
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Effective 14 Feb, Dart Communications now owns rights to GCP++. GENISYS Comm has spun off a new communications software company, Dart Communications, and we are now underway independently. Full speed ahead!

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**NEW Version 2.4.2!**  
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This is the newest version 2.4.2. We hope you like it. The GCP++ interface has been simplified and modified slightly...we hope this does not cause any inconvenience for our current customers. -- GCP.DLL and GCP.LIB names have been changed to GCPxxx.C.DLL/LIB. This change will protect your client software from interference from another version of GCP that is being used to

support another application. We will guarantee that unique version names will always maintain the same API.

- PEER support has been taken out (no one needed it)
- Client/Server communications has been optimized
- VT-220 for Workgroups has been added...now with dial-up support!
- minor bugs showing up with specific stacks have been worked around
- GCPxxxC.DLL now provides the interface for both C/C++ and VBX modules (superceding GCP\_API.DLL)
- GCP server now has a version number in the name (GCP242.EXE)
- GCP\_RELEASE, GCP\_MANUALCLOSE and GCP\_AUTOCLOSE have been deleted from the interface...GCP\_SHOW will cause the server to appear and it will not automatically shutdown when shown...GCP\_HIDE will shutdown the server if no agents are active
- GCPxxxC.DLL is being used for shared memory between GCP\_242.EXE and client applications. We believe this technique to be slightly superior over the previous technique of using globally allocated memory with GMEM\_SHARE
- All references to PeekMessage() have been removed, making GCP242.EXE even more independent of other applications (that could be doing the same).
- A polling mechanism has been added...when GCPquery() is called for GCP\_STATUS information, the protocol stack is inspected for reads/writes...this can help make GCP operate when other tasks are not being "cooperative"

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### **Frequently asked questions:**

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#### **What stacks have been tested with GCP++?**

Please look down a page or two.

#### **How do I quickly use the VB Custom Controls?**

Use the \*.MAK files that are included as a template.

#### **Where is the documentation?**

The SDK includes help files that serve as documentation. We have opted not to include hardcopy because it tends to get outdated quickly, is not as easy to use (no hypertext), and is more difficult to support.

#### **Does Dart Communications sell a TCP/IP kernel?**

Dart resells Lanera's TCP/IP kernel and related TCP/IP products. Please inquire.

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### **Version 2.3**

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Version 2.3 is similar to 2.2, except that we have transitioned to a two-tier pricing structure. The GCP TCP/IP SDK for Windows is now priced much lower than previously, to provide a lower cost entry level. A one-time license cost has been implemented on an interface basic to help use recoup our investment in the product. In addition, a VT-220 Custom Control has been added to the line-up.

Also, use of the GCP\_AUTOCLOSE and GCP\_MANUALCLOSE messages has been discontinued. To ensure GCP.EXE is closed prior to shutdown of your application, use GCP\_RELEASE. This will ensure the server is closed if it is not servicing any other applications.

WINSOCK Development support has been added to the C/C++ Edition.

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## Version 2.2

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The current version of the GCP++ product line has been ported to the Microsoft Development platform. Version 2.2 is different from version 2.1 in the following ways:

1. The GCP.H file has been modified slightly to use "unsigned short" variables for port numbers instead of "unsigned int" variables.
2. All executable code is 20-50% smaller.
3. The TFTP server responds immediately after copying a file, instead of delaying a nominal 5 seconds.
4. Numerous "robustness" improvements were made internally, taking advantage of the Microsoft Foundation Classes.
5. The Setup process has been updated.
6. The VB Custom Controls are verified to operate correctly under Visual Basic 3.0
7. TELNET sub-option negotiation has been included, along with expanded support for TELNET command processing.

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## Compatible WINSOCK 1.1 compliant stacks

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Dart Communications has tested the following stacks and supports GCP++ operation on them:

1. SuperTCP (Frontier Technologies)
2. Chameleon (NetManage)
3. LAN Workplace for DOS with LWP168.EXE patch
4. Air for Windows (licenses #3 above)
5. PC/TCP (from FTP) with their WINSOCK.DLL v 1.06 dated 4 May 1993 or later
6. Distinct
7. Windows for Workgroups TCP/IP
8. Windows NT
9. Wollongong (with latest WINSOCK.DLL from their bulletin board)

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## Packing List for SDK and Visual Basic Custom Controls

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### CWINSOCK.ZIP

Zip file includes sample Windows Sockets source code for a base CWINSOCK C++ class. Use this class to derive specialized classes for TCP connections, daemons, etc.

### GCP24.EXE

The GCP Server that is copied into your Windows directory. This version performs asynchronous blocking calls for all name resolution calls. This version is recommended.

### GCP\_EVAL.WRI

Evaluation Edition information.

### ORDER.TXT

How to order GCP++ products.

GCP.H

Header file required for all C/C++ development. Only included with the C/C++ Edition.

GCP.DLL

Dynamic link library is linked to by GCP client applications at runtime. Installed in your Windows System directory during setup.

GCP.LIB

Static library linked into all client applications to make dynamic linking automatic. Can also be created by you using the IMPLIB application.

GCP\_C.HLP

The complete reference on how to use the GCP server via the GCP\_API.DLL interface. Part of the C/C++ Edition.

GCP\_CLNT.CPP

C++ source code for GCP\_CLNT.EXE. Included as an example in the C/C++ and Evaluation Editions.

GCP\_CLNT.DEF

Windows definition file for GCP\_CLNT.EXE. Included as an example in the C/C++ and Evaluation Editions.

GCP\_CLNT.EXE

Sample GCP++ client that dynamically links to GCP\_API.DLL. Included as an example in the C/C++ and Evaluation Editions.

GCP\_CLNT.H

Header file for GCP\_CLNT.EXE. Included as an example in the C/C++ and Evaluation Editions.

GCP\_CLNT.HLP

Help file for GCP\_CLNT.EXE.

GCP\_CLNT.HPP

Class definition file for GCP\_CLNT.EXE.

GCP\_CLNT.MAK

Visual C++ project file for GCP\_CLNT.EXE

GCP\_CLNT.RES

Resource file for GCP\_CLNT.EXE

GCP.GLB

Definitions for constants used by GCP++. Use in VB projects. Included with Visual Basic Custom Controls.

GCP\_TCP.FRM

A sample form using the GCP\_TCP.VBX and THREEED.VBX controls.

GCP\_TCP.VBX

Custom control providing TCP protocol services. Placed in your Windows System directory during installation.

GCP\_TFTP.FRM

A sample form using the GCP\_TFTP.VBX and THREEED.VBX controls.

GCP\_TFTP.VBX

Custom control providing TFTP protocol services. Placed in your Windows System directory during installation.

GCP\_TLNT.FRM

A sample form using the GCP\_TLNT.VBX and THREEED.VBX controls.

GCP\_TLNT.VBX

Custom control providing TELNET protocol services. Placed in your Windows System directory during installation.

GCP\_UDP.FRM

A sample form using the GCP\_UDP.VBX and THREEED.VBX controls.

GCP\_UDP.VBX

Custom control providing UDP protocol services. Placed in your Windows System directory during installation.

GCP\_VB.HLP

The complete reference on how to use the GCP server via the Visual Basic Custom Control interface.

TCP.EXE

Executable using GCP\_TCP.FRM

TCP.MAK

VB make file using GCP\_TCP.FRM and GCP\_TCP.VBX

TLNT.EXE

Executable using GCP\_TLNT.FRM (TLNT stands for TELNET)

TLNT.MAK

VB make file using GCP\_TLNT.FRM and GCP\_TLNT.VBX

TFTP.EXE

Executable using GCP\_TFTP.FRM

TFTP.MAK

VB make file using GCP\_TFTP.FRM and GCP\_TFTP.VBX

UDP.EXE

Executable using GCP\_UDP.FRM

UDP.MAK

VB make file using GCP\_UDP.FRM and GCP\_UDP.VBX

VT220.EXE

Executable using GCP\_220.VBX.

VT220.MAK

VT220 make file.

WINSOCK.DEF

Module definition file for WINSOCK.DLL

WINSOCK.H

Header file used by WINSOCK.DLL and applications that call it.

WINSOCK.HLP

Documentation for writing applications using WINSOCK.DLL

WINSOCK.LIB

Static library for applications that simplifies dynamic linking to WINSOCK.DLL

WS\_FTP.ZIP

Zip file includes sample Windows Sockets source code for an FTP client.

WSMTPD15.ZIP

Zip file includes sample Windows Sockets source code for an SMTP daemon.