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Information and File Descriptions for GCP++ - 21 Mar 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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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 2.4.1!
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This is the newest version 2.4.1. 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.
-- 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
-- GCP.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 (GCP241.EXE)
-- version 2.4.2 is in the works, to include an FTP capability
-- 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
-- GCP.DLL is being used for shared memory between GCP_421.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 GCP241.EXE even more independent of other applications (that could be doing the same).

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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 quicky 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 THREED.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 THREED.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 THREED.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 THREED.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 SNMP daemon.