



CUSTOMER SERVICE BULLETIN

TDS-TCP/IP API

EXPERT CENTER CE7

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TDS-TCP/IP API (Application Programmatic Interface)

1 - GENERALITIES

TDS-TCP/IP allows an application located on a PC to dialog with a TDS transaction GCOS 7 according to a **Client/Server** model.

The application located on the PC is said to be the **Client** application while the TDS transaction running on GCOS 7 is the **Server** application.

The Client application is running on the **Windows 95** or the **Windows NT** environment in **32** bits mode.

This conversational dialog is made up of messages exchanged via the network ; it takes place through the "de facto" standard communications network known as TCP/IP that provides native TCP/IP support in a GCOS 7 TDS processing environment.

Access to the TCP/IP network is made via a layer of network services named the socket interface (often abbreviated to socket). This layer is implemented on GCOS 7 by a component called **SOCKG7 (SOCKET for GCOS 7)**, while on the PC, the interface is a part of the operating system called **WINSOCKET (WINDOWS SOCKET)**.

At application level (i.e., the Client/Server applications), the conversational dialog must respect the Client/Server rules defined by a subset of **XATMI** protocols (**X/Open Application to Transaction Manager Interface**).

2 - ON GCOS 7 SIDE (Server)

. Existing TDS transactions can be used by a Client application; these transactions can be either in message mode or in formatted mode (i.e., using FORMS facility).

. At TDS transaction level, respect of the XATMI protocol is transparent; this is done at a lower level by a new GCOS 7 component named SOCKG7 that converts the TDS specific verbs (SEND, RECEIVE, etc.) to the appropriate functions of the socket interface.

. SOCKG7 accesses lower communications layers using either OPEN 7 services or GXTI services.

. Generation and administration of the TDS-TCP/IP link use TP7GEN and TDS master commands.

3 - ON PC SIDE (Client)

. The Client application dialogs with a TDS transaction using a specific API provided by BULL and installed on the PC in a standard DLL (Dynamic Link Library).

. The API provided is a set of primitives, written in C language, which are XATMI compliant; this allows the customer to develop the Client application with all Rapid Application Development tools (RAD) that can call the functions provided by this API (such as WINDEV, VB5, Visual C++ ...)



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4 - DELIVERY KIT

The delivery kit is composed of the following elements:

- 3 magnetic tapes type MT or 3 cartridges type CMTS with media names I5240A/B/C, or 1 cartridge type Exabyte or type DLT with media name I5240, or 1 CD-ROM with media name I5240,
- 1 media named TCPIP4, (tape or cartridge as appropriate)
- 1 floppy disk 3½ inches named TCPIP7,
- 1 CSB N 00-006EN,
- 1 CSB N°00-002EN (INTEROP7 I5240),
- 1 add-on key in case of first product order, (refer to § 5)
- 1 set of documentation in case of first product order. (refer to § 6)

5 - MARKETING IDENTIFIERS

This product is delivered by ordering the product kit through the following MIs:

TPDD022 (HPS) or TPDD022-x0 (EXMS/TA) - TDS TCP/IP

6 - DOCUMENTATION

This product is fully described in the following documentation:

47 A2 37UT Rev 02 TDS-TCP/IP User's Guide