



Licensed Program Specifications

Internet Inter-ORB Protocol Connect for TPF Release 1 Program Number 5799-D64

Internet Inter-ORB Protocol Connect for TPF, referred to as IIOP Connect for TPF in the remainder of this book, provides a standard way to connect distributed objects across the Internet and intranets. By using IIOP Connect for TPF you can leverage Transaction Processing Facility (TPF) application programs with new distributed applications. For example, Web browsers support Internet Inter-ORB Protocol (IIOP) to facilitate communication between Web-based applications and intranet enterprise applications.

The Object Management Group (OMG) Common Object Request Broker Architecture (CORBA) specifications define a complete distributed object platform. IIOP, which is a required component of an Object Request Broker (ORB), is an implementation of the General Inter-ORB Protocol (GIOP) over Transmission Control Protocol/Internet Protocol (TCP/IP). IIOP is a key component because IIOP focuses on interoperability of distributed objects in heterogeneous environments.

IIOP Connect for TPF introduces the first phase of CORBA functionality for the TPF 4.1 system.

Note: IIOP Connect for TPF is a stand-alone IIOP, which means that it is not part of an ORB. A stand-alone IIOP provides the following advantages:

- It enables TPF applications to communicate over IIOP and is suitable for applications with strict performance constraints.
- You can leverage TPF application programs with new distributed applications.

IIOP Connect for TPF is a set of C functions that are implemented as a single dynamic link library (DLL) or shared library that provides a complete programming interface to the GIOP by using TCP/IP. IIOP and GIOP are defined by the OMG CORBA specifications.

IIOP Connect for TPF fully supports GIOP Version 1 Release 1 and GIOP Version 1 Release 0. The

major difference between the two versions is that GIOP Version 1 Release 1 supports message fragmentation.

Specified Operating Environment

Year 2000 Readiness

This IBM program, when used in accordance with its associated documentation, is capable of correctly processing, providing, and/or receiving date data within and between the 20th and 21st centuries, provided that all products (for example, hardware, software, and firmware) used with this IBM program properly exchange accurate date data with it.

Machine Requirements

IIOP Connect for TPF operates on IBM Enterprise Systems Architecture (ESA) processors. The minimum required hardware configuration is the same as that required for TPF Version 4 Release 1 (program number 5748-T14, 5799-FPC, or 5799-FZN), or subsequent releases and modification levels, as specified in *TPF Migration Guide: Program Update Tapes*, GH31-0187.

Programming Requirements

IIOP Connect for TPF requires the following:

- TPF Version 4 Release 1 at program update tape (PUT) 10 plus APAR PJ26685 or subsequent releases and modification levels, and associated programming requirements.
- TCP/IP network connectivity. See *TPF Migration Guide: Program Update Tapes* for more information about TCP/IP-based communication requirements.

Licensed Program Materials Availability

Restricted Materials — Yes. This licensed program is available with all licensed program materials designated as “RESTRICTED MATERIALS OF IBM.”

Supplemental Terms

Designated Machine Identification

Designated Machine Identification Required: Yes.

Testing Period

Basic License: 2 months

Use-Based Charges/Usage Restriction

Not applicable.

Type/Duration of Program Services

Problem resolution support for IIO Connect for TPF is available from the TPF Systems Customer Service group. The recommended method for reporting problems to the TPF Systems Customer Service group is electronically by using the ETR option on Servicelink/DIAL-IBM (as available), or through your local IBM representative.

Program services support is available until discontinued by IBM upon 6 months written notice.

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