

NexusWare® C7 PRODUCT SHEET

SS7 MTP-2 Software Module

HIGHLIGHTS

Complete SS7 MTP-2 Kit for Developing SS7 Applications

Interoperability with Upper Level Stacks

Installable Package for NexusWare® Core

Highly Configurable and Scalable Solution

Application Development with Windows® XP or Linux®

Distributed Processing Architecture

Consistent and Well-Documented Application Programming Interface (API)

Target Applications:

- SS7 Signaling Gateways
- Home Location Registers (HLR)
- Visitor Location Registers (VLR)
- Service Control Points (SCP)
- Service Switching Points (SSP)
- Signal Transfer Points (STP)
- Configurable link density counts
- Multimedia gateway controller
- Ideal for SS7 stack vendors

NexusWare® C7 is a comprehensive SS7 MTP-2 installable software package designed to work in conjunction with NexusWare Core, Performance Technologies' CGL-registered development, integration, and management environment. NexusWare C7 provides a powerful foundation for building SS7 applications for wireless and IP telephony systems to those equipment manufacturers and application developers who use Performance Technologies' embedded packet-based products.

Configurability and Scalability

NexusWare C7 provides an onboard MTP-2 library for embedded applications.

Designed to interoperate with Performance Technologies' intelligent T1/E1/J1 controllers, NexusWare C7 provides extensive system scalability. The distributed processing architecture of NexusWare C7 allows the addition of SS7 links into existing equipment without compromising overall host system performance.

A Hardware and Software Solution

By using Performance Technologies' PowerPC®-based T1/E1/J1 hardware as the MTP-1 physical interface and NexusWare C7 for the MTP-2 layer, developers can realize higher link density and sustained operation of up to 50 SS7 channels.

Interoperability with Upper Level Stacks

Upper level stacks from any SS7 software vendor, such as TCAP, ISUP, and TUP, can be integrated with NexusWare C7 software through a well-defined application programming interface (API). The API allows for the easy integration of any MTP-3 with the NexusWare C7 MTP-2 link layer.

NexusWare C7 Software Architecture

NexusWare C7 is an installable software module for use with NexusWare Core. The following diagram represents how NexusWare Core, NexusWare C7, an MTP-3 application, and Performance Technologies' hardware platforms interact with one another.



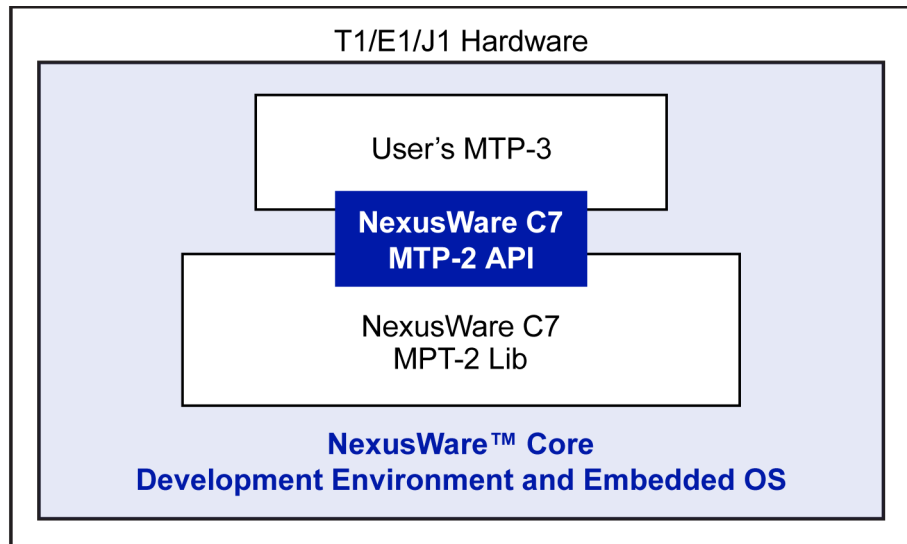
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SS7 MTP-2 Software Module

ORDERING INFORMATION

PT-NWC7KIT-11943
MTP2 Installable Software
Package

PT-NXSWARE-11359
NexusWare Core Development
Environment and Associated Tools



API

The ease of use provided by NexusWare® C7 comes from its fully documented API. The NexusWare C7 API provides a set of services that can be called on by the MTP-3 layer, which resides in the host.

The NexusWare C7 API includes the following routines:

MTP2_BindAPI

- Binds the API to the T1/E1 adapter and performs relevant setup.

MTP2_UnbindAPI

- Closes the T1/E1 adapter and frees allocated memory.

MTP2_WaitForCall

- Waits until the driver returns a message from the adapter.

MTP2_DispatchCall

- Analyzes calls from MTP-2 and dispatches them.

MTP2_MgtRequest

- Builds and sends a management request to MTP-2.

MTP2_MgtGetResponseStatus

- Retrieves the last request global status.

MTP2_MgtClearAttributeList

- Clears the attribute list and associated data, and prepares API to accept a new request.

MTP2_MgtAddItemToAttributeList

- Adds an item to the attribute list.

MTP2_MgtNextItemOfAttributeList

- Reads the next item of the attribute list.

MTP2_SubmitCommand

- Builds and sends an MTP command to the MTP-2 layer.

NexusWare® C7 Kit Contents

- MTP-2 library
- Example programs
- Software user manuals
- NexusWare C7 MTP-2 licensing agreement

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