

# 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.



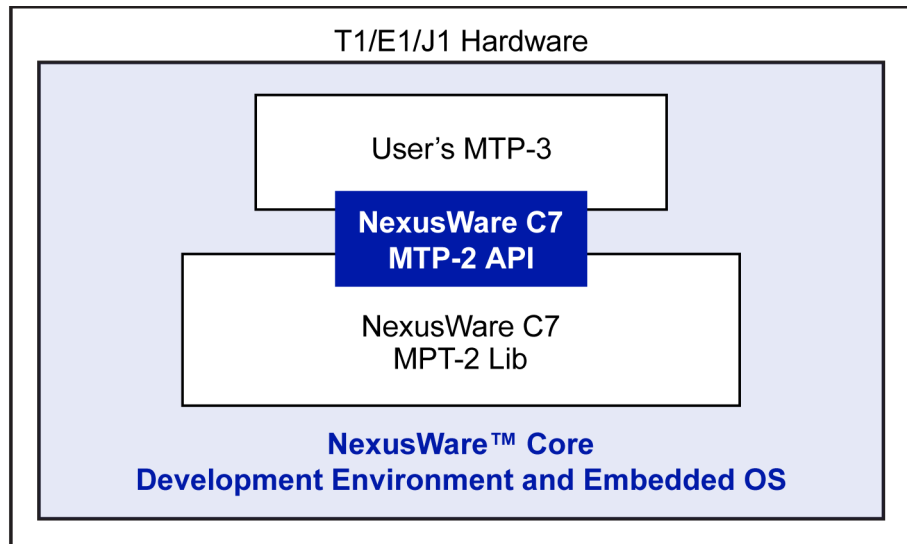
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## SS7 MTP-2 Software Module

### 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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