Application Brief

Business Communications Manager Voice/Data DDIM

Features

- Reduces costs by eliminating the need for separate voice and data T1 lines
- Increases efficiency by reducing the need for technicians to travel offsite
- Consolidates system set-up and administration onto a single management application
- Eliminates conflicts between digital trunk interfaces
- Streamlines installations by reducing cable clutter generated by external components

Maintaining separate T1 lines for data and voice can be a costly proposition. Even if you try to control costs by using fractional T1 lines, chances are you're paying high prices for T1 lines that are not fully utilized. To solve this problem, service providers are offering universal T1 lines that support both voice and data on a single link, creating potential cost savings of hundreds of dollars per month.

Many small site solutions support connectivity to universal T1 lines by using an external Drop and Insert Multiplexer. Now there's a more cost-effective way to get the job done, without the expense of maintaining multiple T1 lines. The new Digital Drop and Insert Mux (DDIM) module is an integrated solution that inserts directly into the Business Communications Manager, eliminating the need to purchase a costly external device to separate voice and data traffic.

By combining the functionality of an external Drop and Insert multiplexer with the features offered by the standard Business Communications Manager Digital Trunk Interface module, the new DDIM module delivers a cost-effective, integrated solution for separating mixed voice/data traffic. And as an integrated component, the DDIM module provides more elegant installations by reducing cable clutter and eliminating external power supplies.

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Simplified set-up and management

In the past, external drop and insert devices frequently required a technician to go on-site for system configuration. Other devices offered remote management, but incurred the expense of a dedicated analog phone line.

As an integrated component of the Business Communications Manager, the DDIM module can be managed over the network via the Unified Manager interface from any browser-enabled workstation. This approach eliminates the need for on-site configuration or management via analog phone line connections. Using a single management interface also increases the visibility of fault alerts, enabling managers to correct potential problems before a network outage occurs.

Digital Drop and Insert Mux (DDIM)

Connectivity

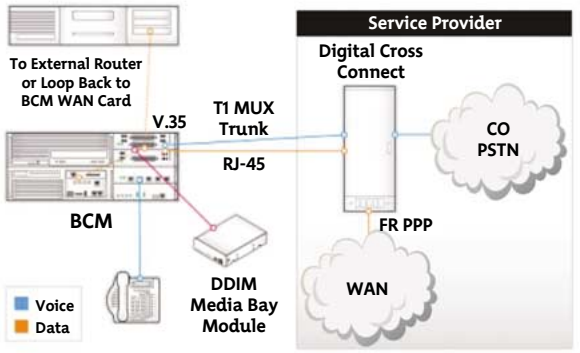
The DDIM module offers a broad range of connectivity options:

- Front-mounted RJ-45 ports supply connection points for T1 lines
- Front-mounted V.35 serial port with DB-26 connector
- DDIM serial port connects via cable to the V.35 serial port on the WAN card, providing connectivity to the internal Business Communications Manager router
- Standards-compliant solution supports external routers from Nortel Networks and third-party vendors
- DDIM module supports V.35-compliant devices
- Test ports enable quick connection of a T1 analyzer, providing end-to-end testing of cabling from building entry point to the wiring closet to the DDIM module

Innovative voice/data module reduces operating costs

Business Communications Manager delivers one of the most flexible, cost-effective solutions on the market. With the addition of the DDIM module, Nortel Networks offers your business significant cost savings by lowering recurring charges for T1 connectivity. A flexible solution, Business Communications Manager is designed to maximize the efficiency of your voice/data network. From the central site to the network's edge, Nortel Networks delivers one of the industry's most innovative connectivity solutions.

Figure 1: Universal voice/data T1 lines support Internet access for small stand-alone sites, as well as Frame Relay access to large, multi-site corporate networks.



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Technical specifications

T-1 Trunk interface with integrated CSU (supports DSX and DS1 interface)	
Number of ports	One 8-pin RJ-45C modular jack One V.35-DB26 miniature connector for data (cable required) Two Mini Bantam test ports for connection of T1 analyzer
Number of channels	24 B channels with T-1 interface
LEDs	Power On/off T-1 Status, Inservice, Loop-back Test, Receive Alarms, Receive Error, Transmit Alarm, Transmit Error
Data	Transmit, Receive, RTS, CTS, DCD, DSR, TM
Cables	V.35 DB-26 interface to connect to Business Communications Manager WAN, DB-44 interface to connect to Nortel Networks routers DB-60 interface to connect to third-party routers Standard V.35 with M34F interface
Requires Business Communications Manager 2.5 Feature Pack 1 or greater	
Installs directly into the Business Communications Manager base unit; not supported by the Expansion Cabinet	

Nortel Networks is an industry leader and innovator focused on transforming how the world communicates and exchanges information. The company is supplying its service provider and enterprise customers with communications technology and infrastructure to enable value-added IP data, voice and multimedia services spanning Wireless Networks, Wireline Networks, Enterprise Networks, and Optical Networks. As a global company, Nortel Networks does business in more than 150 countries. More information about Nortel Networks can be found on the Web at:

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