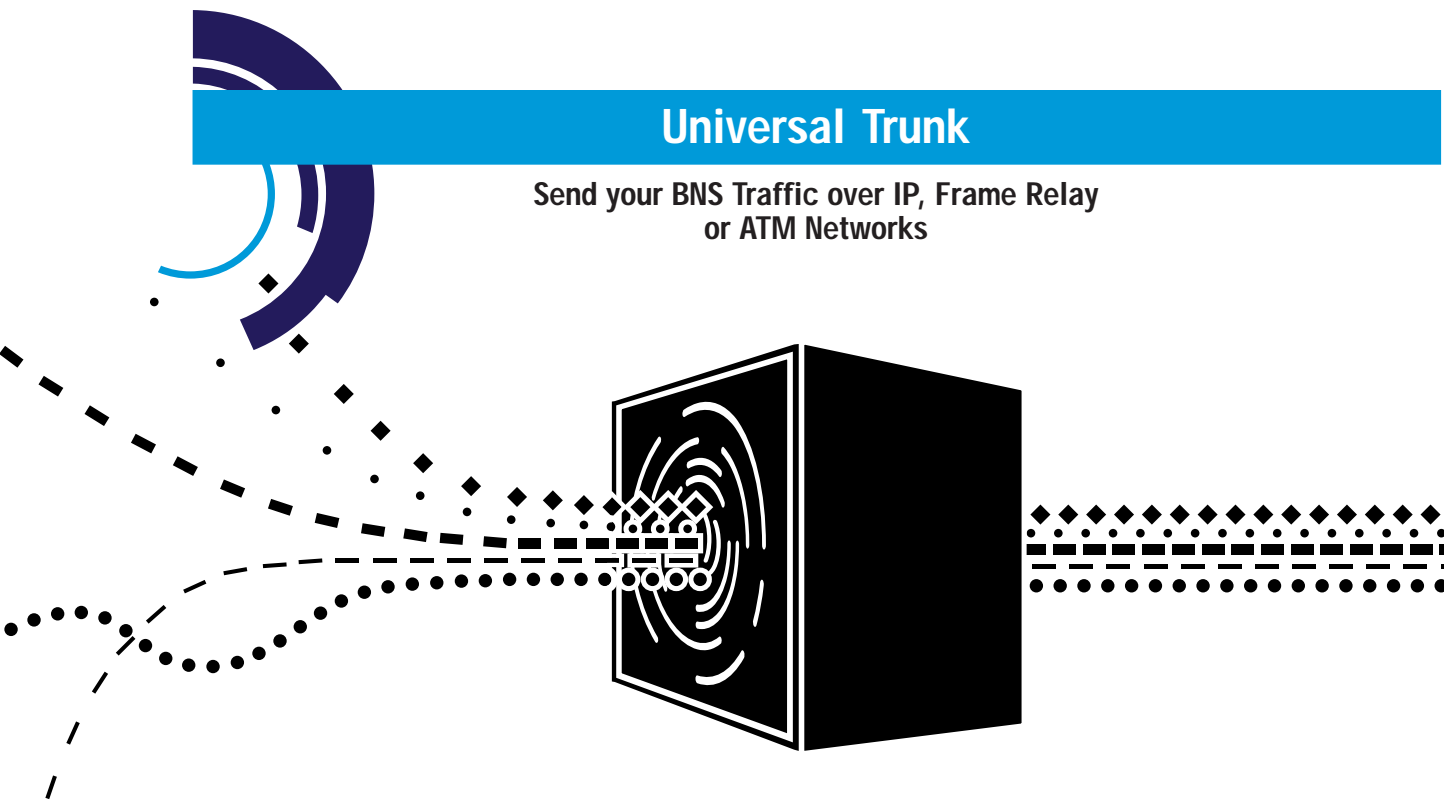


Universal Trunk

Send your BNS Traffic over IP, Frame Relay
or ATM Networks



As IP, ATM and Frame Relay Networks grow, the need for BNS-2000/BNS-2000 VCS networks decrease. The Universal Trunk is a BNS-2000/BNS-2000 VCS module that allows the customer to meet this need. With the Universal Trunk the customer can employ more cost-effective interconnection facilities between nodes and other BNS-2000/BNS-2000 VCS components using IP, Frame Relay or ATM rather than traditional—and costly—leased line services. Another way of saying this is that it permits the movement of the BNS-2000 products toward the network edge. This is implemented by interconnecting BNS-2000/BNS-2000 VCS nodes with other BNS-2000/BNS-2000 VCS Nodes, Remote Shelves and SAM devices over different backbone networks such as IP, ATM and Frame Relay.

What is the Universal Trunk?

The Universal Trunk is a fully integrated BNS-2000/BNS-2000 VCS module. It supports interconnection with other BNS-2000/BNS-2000 VCS nodes, remote shelves (MPCs) and all types of SAMs.

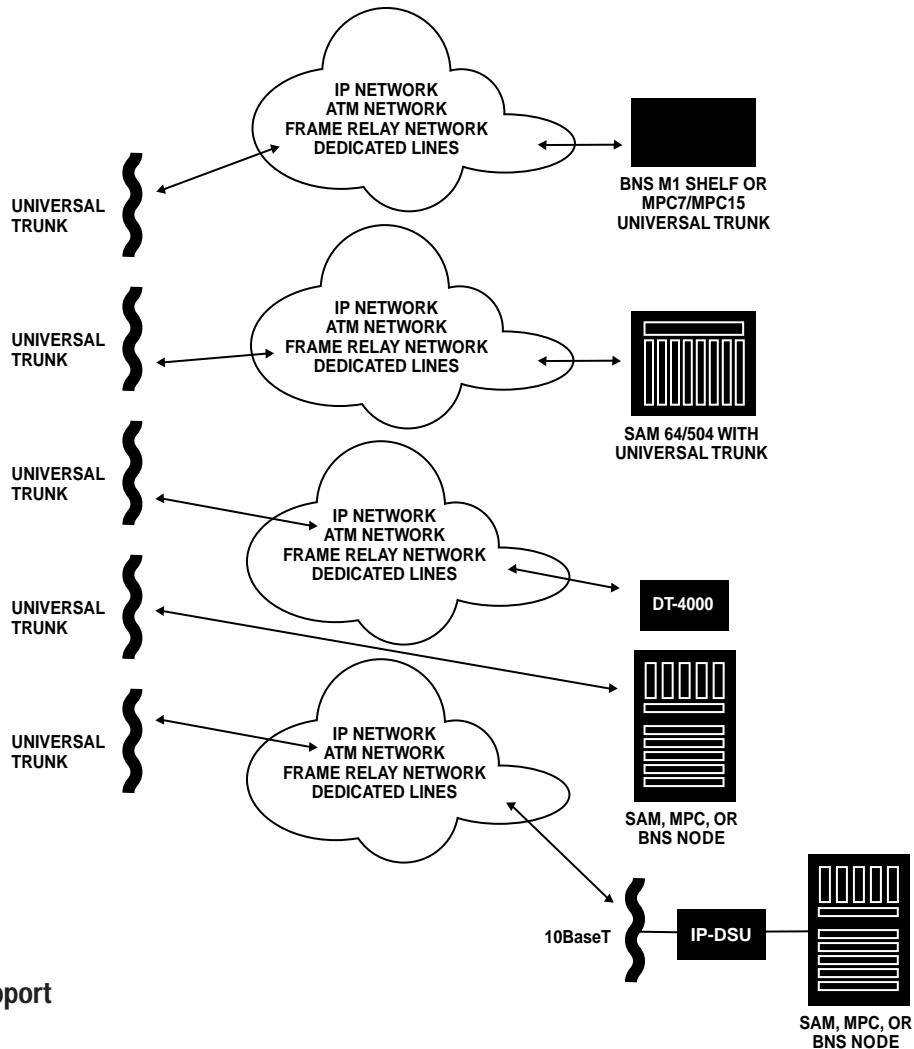
The Universal Trunk supports an IP infrastructure interface that is compatible with an IP-DSU. It also supports an RS-530 interface with both DDS and Frame Relay protocol support at serial rates up to T1. ATM networks are supported via an RJ48C at T1 or E1 rates.

The Universal Trunk is a companion product to the DT-4000 and supports the same trunking interfaces. The Universal Trunk may also be installed in SAM64s/504s to upgrade their trunking options.

SNMP Manager Administration

The Universal Trunk contains an SNMP agent, which may be queried by one or more SNMP managers. It also supports sending SNMP Trap messages to a predefined SNMP manager.

Universal Trunk



Interface Support

Interface	Qty	Usage
10BaseT	1	The 10BaseT port is a trunk port that is used for interfacing with an IP based network. It simultaneously supports IP-DSU style DDS BNS-2000/BNS-2000 VCS trunks, and TCP/IP peer level protocols.
Serial	1	The Serial port may be software configured as a V.35 DTE or a RS232 DTE. It is used to interface to BNS SAMSL/SAMML (DDS) style trunks. Frame Relay is also supported on this port.
T1/E1	1	An RJ48C connector is used for this interface. It is used for support of ATM networks at either T1 or E1 rates.
Console	1	The Console is used for initial configuration, if necessary. It is configured as 19200 bps, 8 bits, and no parity.

Field Software Upgrade

Field software updates, which can occur from a remote location, take place while the Universal Trunk is in service and transporting data. As new features and enhancements come out, you can upgrade the Universal Trunk software just by upgrading to a new software release using an industry standard Telnet application or serial RS232-C connection to the Universal Trunk.

