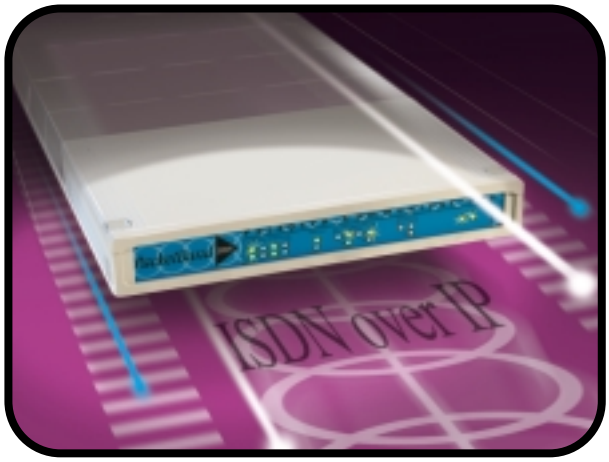
PATAPSCO Communications

PacketBand® ISDN: Creates Dynamic ISDN Tunnels Through IP/MPLS Networks

The first ISDN Pseudo-Wire 'system in a box' for Carriers, System Integrators and Corporates. Delivers dynamically switched clear ISDN "B" channel connectivity.



- **Protects User investments in ISDN equipment, terminals and applications**
- **Offers IP network Service Providers (SPs) high-margin services in a slim margin world**
- **Opportunity for System Integrators and Resellers to on-sell or up-sell from VoIP**
- **Provides IP network SPs cost and management competitive advantages**
- **Enables IP network SPs to service all a customer's communications needs**
- **Preserves high-value synchronous security applications**
- **Targets and retains existing customers and wins new prospects**
- **Easy and fast to install and manage**
- **Sited at either customer premises or carrier POP**
- **Allows Carriers to economically extend their ISDN reach**

OVERVIEW

The IP and MPLS–based NGN (Next Generation Network) is the confirmed direction for the telecoms industry. However, while some carriers are planning for widespread adoption of packet infrastructure, not all users are. Some will want to hold on to tried and trusted equipment such as Group 4 facsimile, synchronous terminals, TDMs, videoconferencing equipment, secure voice terminals and PBXs. As an indication, how many of your existing or target IP customers still have ISDN and leased lines delivered to site?

Customers will want or need to maintain their synchronous, circuit-switched services or find a way to support them over IP.

That's where Patapsco's PacketBand ISDN comes in. PacketBand ISDN is a 'Pseudo-Wire' solution designed to allow ISDN terminals and systems to transparently operate across and through the IP cloud. PacketBand ISDN creates virtual circuits that allow synchronous ISDN services to run across IP, MPLS and Metro Ethernet networks - just as if they were using a real ISDN circuit-switched network.

PacketBand ISDN offers the best of both worlds: Users win all the cost and flexibility advantages of converging their voice and data services onto a single IP infrastructure, while at the same time preserving their investment in trusted applications and terminal equipment.

For Carriers and System Integrators PacketBand ISDN is an opportunity to provide high-margin services on low cost infrastructure.

Carriers and corporates can also use PacketBand ISDN to extend ISDN Pseudo-Wire across the broadband IP network to locations unable to cost-justify the installation of native ISDN and leased line services.

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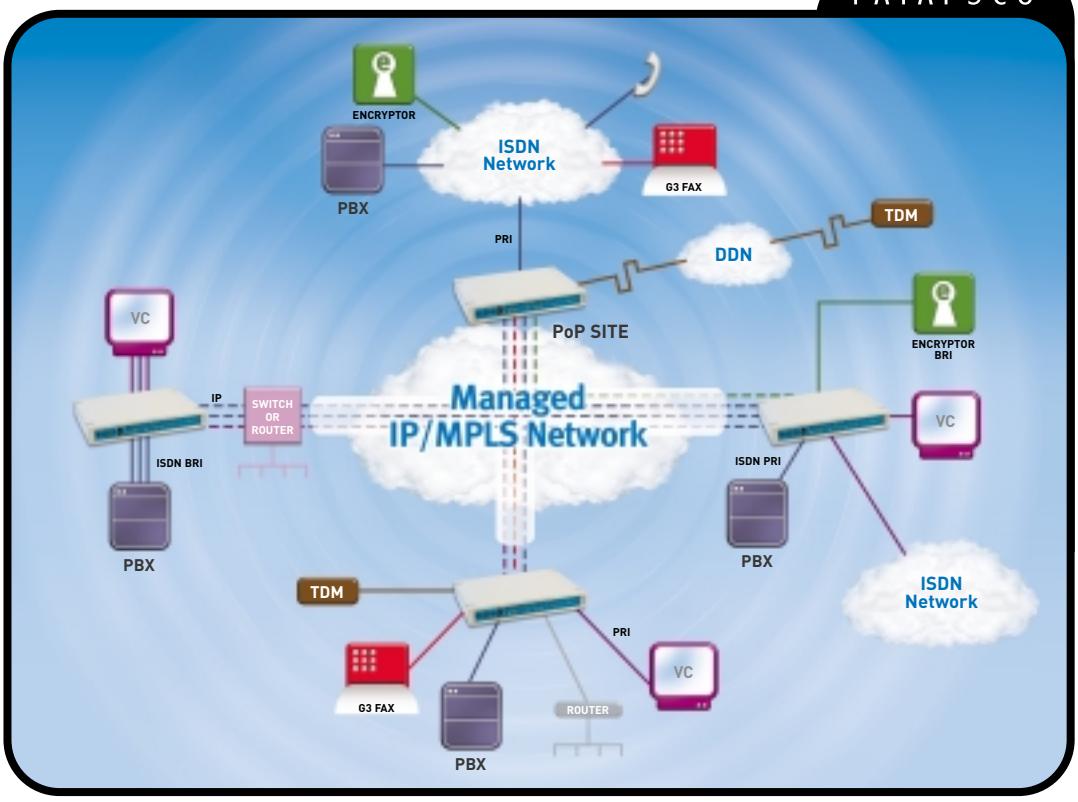

PacketBand® ISDN

- Benefits for carriers, government, military and corporate users, offering a unique opportunity to transport high-value, high-margin services over standard IP/MPLS networks.
- Enables call switching via IP, giving carriers and users the ability to create a virtual switched ISDN cloud across and through an IP network.
- Preserves all the signalling and performance characteristics required by an ISDN call.
- PackBand can also deliver point-to-point clock locked leased lines across IP.
- Enables Carriers/System Integrators/Resellers to win new business by being able to offer cost-effective dynamically switched ISDN services in an IP network package.
- Target and helps both existing customers and new prospects.
- Will support all current and planned relevant TDM standards, including Y.1413, an ITU standard specifying how TDM traffic should be handled by MPLS.
- Support for 1Gbit/s and 10/100Gbit/s Ethernet.

PacketBand® ISDN: 2 versions

- PacketBand ISDN PRI (Primary Rate Interface) supports 1 to 4 PRI interfaces, E1 and T1 and non-switched T1/E1 full or fractional “leased lines”. The system can be configured with both NT (network side) and TE (terminal side) presentations, which means it can operate at either end of the IP network, connecting to either local equipment or to an ISDN carrier network.
- PacketBand ISDN BRI (Basic Rate Interface): supports either 4 or 8 interfaces. Each can present as NT or TE.

Both products have a high-speed IP/MPLS network connection and a local Ethernet port for router/VoIP traffic etc.

For more details, please see the Technical Datasheets and Application Notes.

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