

PacketBand®-ISDN: Using IP whilst keeping your legacy applications alive and cost-effective

Do you want to move to IP but have legacy services that do not migrate to IP easily?

Do you want to reduce switched circuit rental/lease costs?

Then PacketBand can help you!

If you are moving to a converged IP network infrastructure, PacketBand-ISDN provides a way to satisfy the critical 'legacy' applications you're not ready to migrate - your existing ISDN data traffic such as video conferencing, fax, and your non-switched synchronous leased line services - and dispense with the expensive dedicated circuits they run over! Or maybe the quality that Voice over IP (VoIP) delivers does not suit your application.

- Patapsco PacketBand-ISDN is the ONLY ISDN tunnelling solution for IP Networks
- Enables clear-channel call switching via IP, giving the ability to create a virtual switched ISDN cloud across an IP network
- Dynamically switched non-compressed clear-channel circuits for data
- On-network or with national/international breakout into "real" local ISDN networks
- Protects User investments in ISDN equipment, terminals and applications
- Clear-channel ISDN calls maintain high quality voice
- Non-switched TDM or leased line circuits over IP for non-router traffic
- Enables User's to select a single IP Carrier to serve all communications services needs
- Preserves high-value synchronous applications
- Easy and fast to install and manage
- Sited at customer premises
- Allows Users to economically connect voice terminals at remote locations to the corporate network
- Can be used to ease migration from legacy comms to IP



OVERVIEW

The growing value of IP/MPLS network technology for business users is indisputable and is already making ever-cheaper bandwidth available to new applications and services.

But business users also want a smooth migration from old to new - a way of moving to a single, packet-based infrastructure with all its cost and management advantages, while at the same time maintaining support and investment in synchronous non-compressible switched and circuit-oriented applications where appropriate.

Why?

Because up to now, for many users these services could not use an IP network. Or taking a single step 'big bang' approach from tried and trusted synchronous equipment and applications to converged services on a packet-based network was just too risky and complicated.

Too much risk

Users are reluctant to throw out reliable proven critical applications, such as legacy computer terminals, encrypted data or devices which demand synchronous switched or leased line services. If it isn't broken, why fix it?

Too much cost

Users don't want to bear the huge cost of upgrading all their communications equipment and applications at the same time, especially if the existing investment has not been financially written off.

Too much disruption

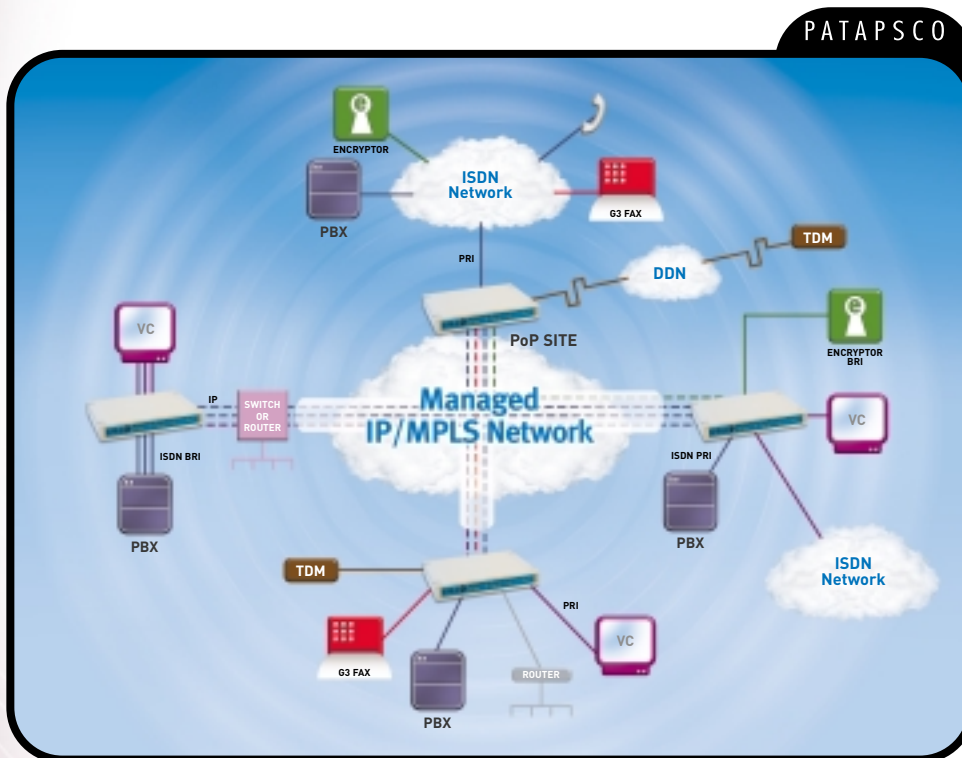
Users don't want to deal with the inevitable problems of changeover or to re-train staff on multiple upgrade paths simultaneously.

Patapsco offers a unique solution to all these concerns - PacketBand-ISDN, the world's first Pseudo-Wire ISDN 'system in a box'. PacketBand-ISDN allows you to set up virtual ISDN switched circuits, or tunnels, across your IP network as well as set up point-to-point TDM leased lines for circuits such as T1/E1 G.703/4.

With PacketBand-ISDN you can keep critical 'legacy' applications you're not ready to migrate to "native" IP but still get rid of the expensive, dedicated and switched circuits on which they run.

Patapsco's PacketBand-ISDN gives you the best of both worlds.

It provides a smooth upgrade path enabling you to enjoy the benefits of broadband IP networking, both nationally and internationally, without having to migrate and converge all your applications on 'day one'. Instead, reliable and critical existing services, such as synchronous applications, high-quality voice PBX networks, encryptors, router backup, customer dial-in, G3 faxes etc, can all be supported by using PacketBand-ISDN. Create ISDN and leased line tunnels, or Pseudo-Wires, across the corporate IP network, with or without break-out capabilities.



The diagram illustrates a few applications and uses of PacketBand, together with the ability to break out into traditional ISDN and leased line networks to deliver services to destinations not on the IP network.

PacketBand-ISDN

- Provides cost-effective, dynamically switched ISDN services across your IP network.
- Preserves the signalling and performance characteristics required by ISDN calls and services.
- Delivers synchronous clocked TDM circuits over IP.
- Support for 1Gbit/s and 10/100Gbit/s Ethernet.

PacketBand-ISDN: Two 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.