

FEATURES

- Further extends the unique flexibility of Sirius
- Links crosspoints together in real-time over a network
- Highly cost effective audio routing
- Video version will link full bandwidth SDI to the compressed world of networks and streaming media
- Fully compatible with Pro-Bel's Procion and Aurora control systems

FUSION - THE INTERCONNECTION OF CROSSPOINTS AND NETWORKS HAS FINALLY ARRIVED



Networks have long had the potential to provide great flexibility in signal distribution, however, the cost of encoding and decoding every signal in a facility on and off a network has always been hugely expensive when compared with traditional crosspoint technologies. In addition technical issues such as quality of service, latency, and timing jitter all had to be addressed.

Sirius Fusion is a new concept in signal distribution that at last combines the flexibility of the network with the economics of the crosspoint.

Building on Pro-Bel's philosophy of adding functionality within the router core, first seen with audio and video conversion, Sirius Fusion allows multiple crosspoint routers to be connected together by a robust and deterministic network.

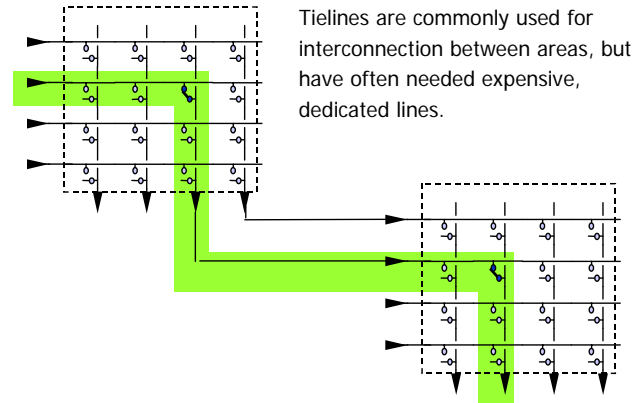
Fusion provides the option of a standard interface to ATM, or interfacing to Ethernet, (allowing ATM transport over the Ethernet physical layer). Further interface options include SuperMAC and MADI, if a more dedicated audio transport is required.

Why Fusion?

The crosspoint router has been a fundamental part of routing signals for many years. It has numerous advantages:

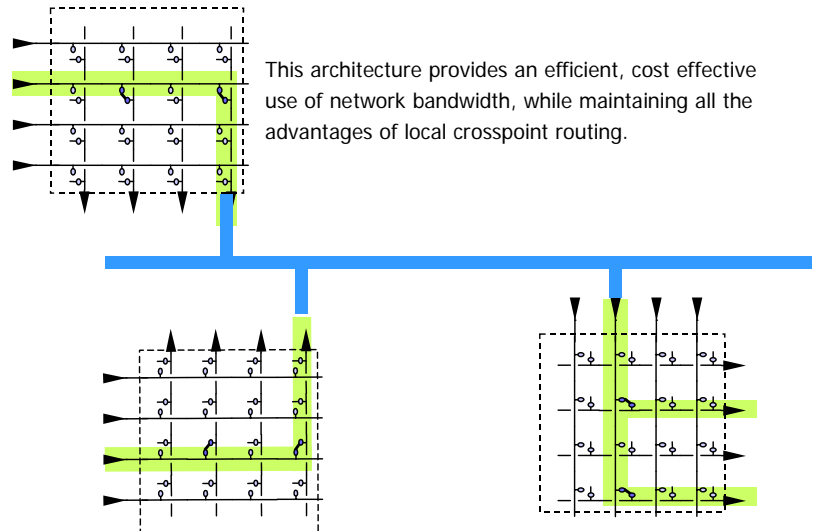
- Guaranteed availability (non-blocking)
- Distributive (one to many) routing
- Negligible delay
- Synchronous switching
- Cost effective in small to medium scale applications

Sirius Fusion offers a new solution, linking crosspoint routers together via a robust network interconnection.



Tielines are commonly used for interconnection between areas, but have often needed expensive, dedicated lines.

Full bandwidth AES audio connectivity is via ATM using the AES47 standard, ensuring interoperability between manufacturer's equipment. ATM technology offers QoS guarantees and low latency, and is ideal for audio routing.



This architecture provides an efficient, cost effective use of network bandwidth, while maintaining all the advantages of local crosspoint routing.

Fusion provides cost effective, synchronous audio switching, and with the flexibility of Sirius, multi-format video and audio routing in one frame.

Video

Video routing is achieved using similar techniques, and will also utilise industry standard interfaces. As a link between full bandwidth SDI and AES and the world of compressed video and audio, Sirius Fusion offers the potential to route full bandwidth SDV and AES within the local crosspoint router area, and interface to the compressed world of networks and streaming media. This provides the future-proof link to the internet world of PC-based users.

Control

Signals are routed in real-time between multiple routers, using network based tielines. Network routing is a natural extension of the Pro-Bel tieline routing architecture, which is supported by Pro-Bel's Procion router control system, and the highly successful Pro-Bel Aurora controller. The network looks like a router to the user, we take care of the rest, so no new user interfaces or editors are needed.

How is this achieved?

The Network interface is a plug-in card in the Sirius router range. It simply replaces a standard I/O card. Adding Fusion to Sirius is therefore just an additional card in a standard Sirius frame. Easy to do now, or in the future.

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