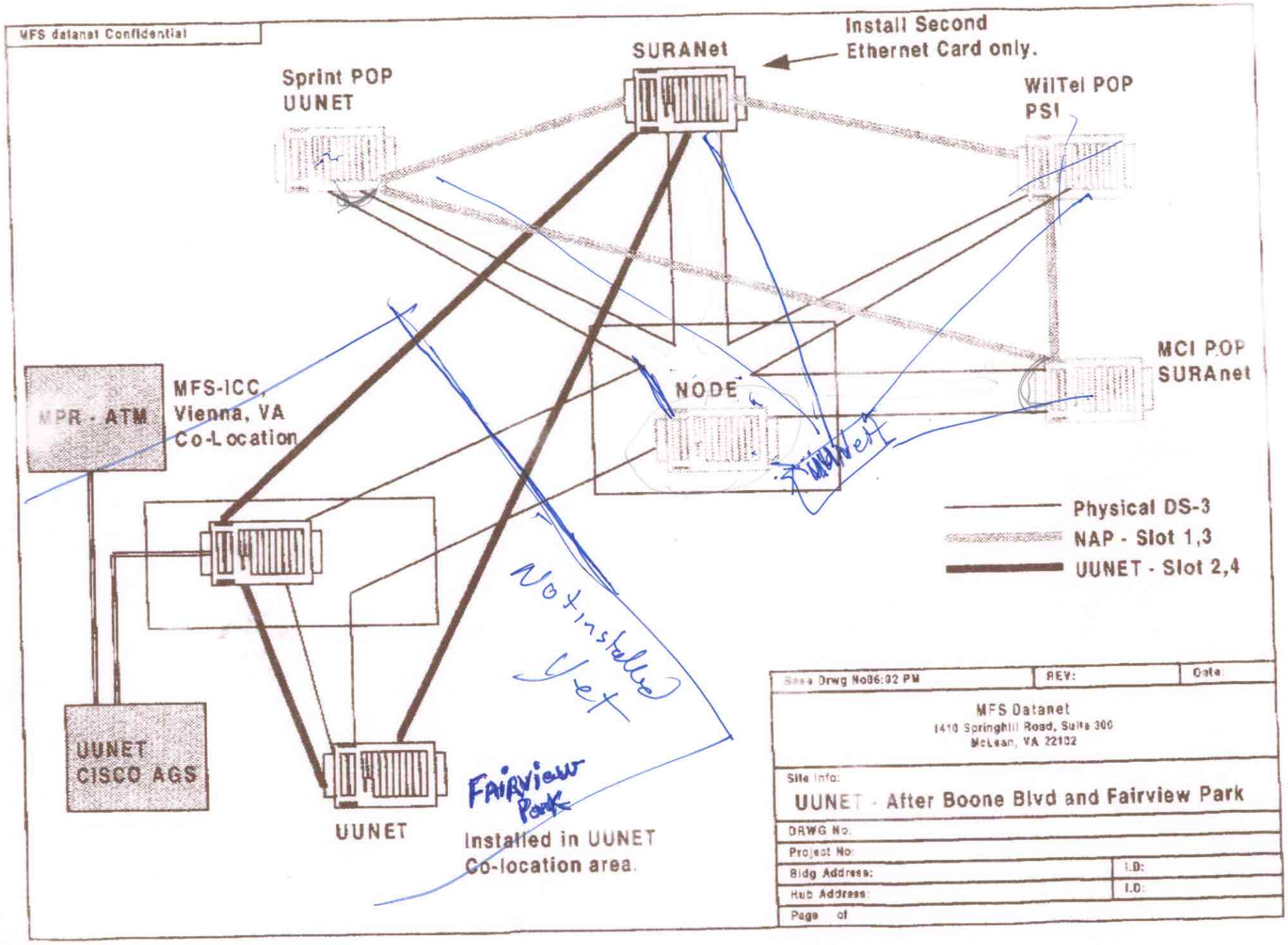

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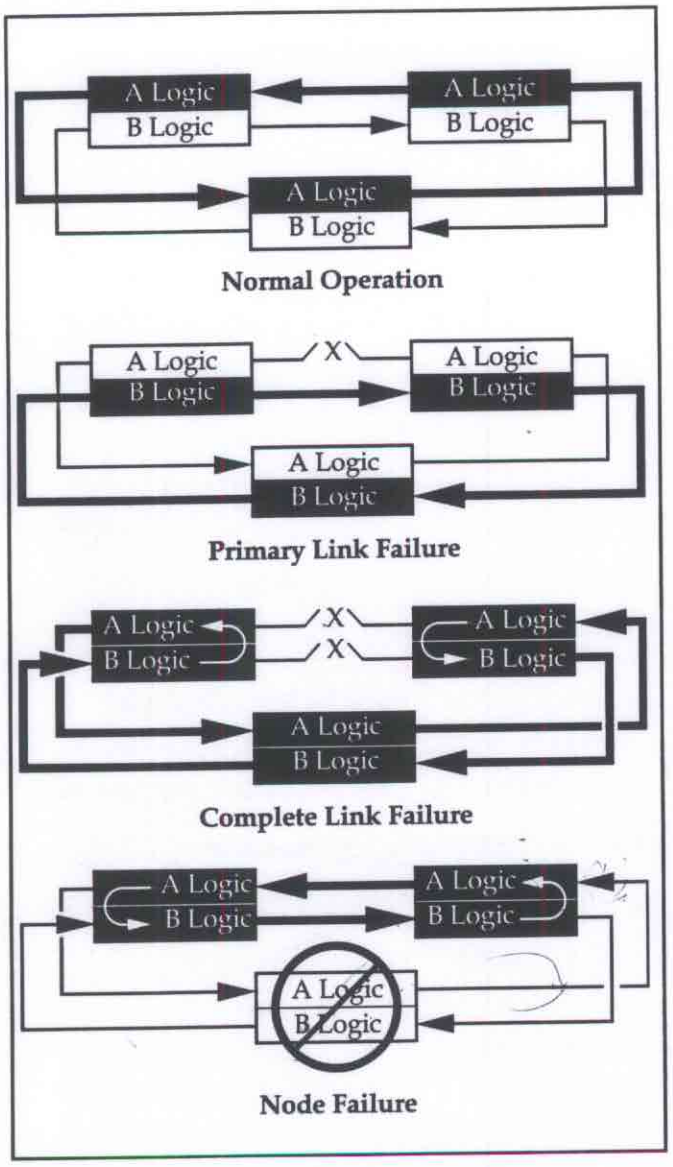
Magnum100



Magnum100 is an extremely reliable backbone solution, due in part, to a design that incorporates "dual counter-rotating rings." This feature enables your fiber network to virtually heal itself in the case of a cable or node failure through its ability to wrap signals and maintain link integrity.

Unrivaled Network Reliability

Configuring your Magnum100 backbone with two common logic modules in each FX8800 chassis creates link redundancy that protects your network from costly downtime. It also enables you to take advantage of Magnum100's dual counter-rotating rings, a feature that lets Magnum100 "heal" itself when a node or cable fails anywhere on your network.

Magnum100 was built with network reliability in mind (with redundant power supplies and common logic). Most components have a mean time between failure rating in the 100,000-hour range, so you can feel confident locating your reliable, low-maintenance backbone nodes out in your wiring closets, while your processor-intensive equipment is safely housed in your data center.

Dedicated Bandwidth Via Proven TDM Technology

Magnum100 utilizes time-division multiplexing – a proven, reliable way of gathering and sending data over fiber or DS-3 cable. A time-division multiplexer gathers signals at one end of a fiber/DS-3 link and divides those signals into dedicated, protocol-specific partitions. The multiple signals are then multiplexed onto a single fiber or DS-3 cable where they are transported, de-multiplexed and distributed to users at the other end.

Designed for critical "real-time" applications where a device needs to be transparent to the signals it sends, a TDM such as Magnum100 provides consistent throughput and performance to ensure that your investment will be protected over the long-term.

The Benefit of Fiber Optics

Magnum100 capitalizes on the inherent advantages of fiber optics, so that you can move your enterprise data at 100 megabits per second in real time, with greatly enhanced integrity and security. More importantly, fiber gives you the increased bandwidth you need to keep pace with your growing networks.

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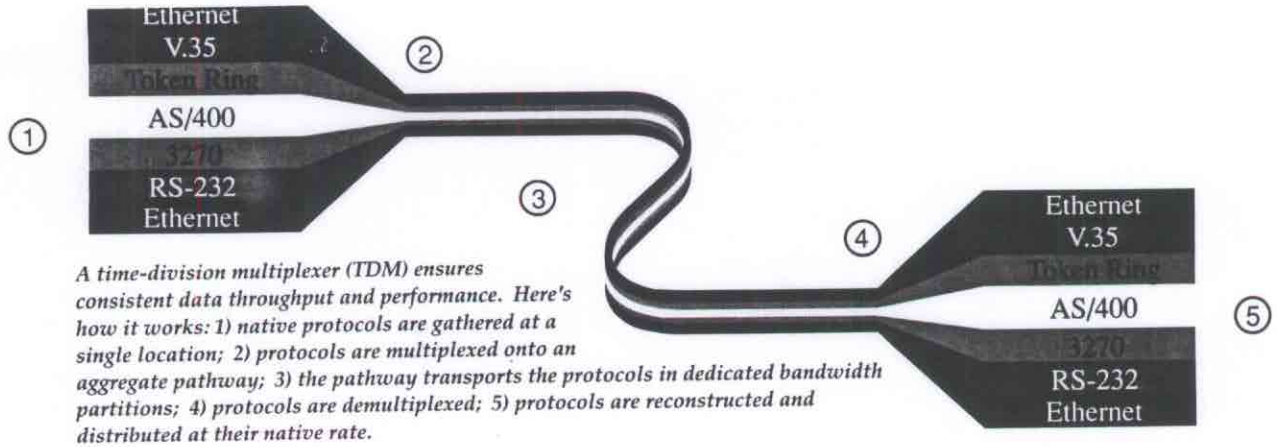


A time-division multiplexer (TDM) ensures consistent data throughput and performance. Here's how it works: 1) native protocols are gathered at a single location; 2) protocols are multiplexed onto an aggregate pathway; 3) the pathway transports the protocols in dedicated bandwidth partitions; 4) protocols are demultiplexed; 5) protocols are reconstructed and distributed at their native rate.

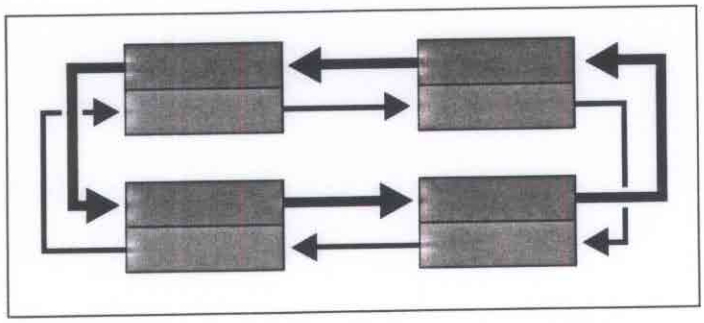
The Benefits of a TDM

Magnum100 uses a time-division multiplexing method which allows it to be transparent to the signals it sends. No buffers are required, so signals can be sent in "real-time" enabling, for example, the transport of digitized voice and IBM 3270 coax signals. With a TDM, you will get consistent throughput and performance along with the configuration flexibility to ensure that your investment will be protected over the long-term.

Time-division multiplexers like Magnum100 are best suited for combining traditional host-to-terminal communications systems (such as those provided by IBM, Unisys, DEC, Wang, etc.) with LAN-oriented networking systems (e.g. NetWare and LAN Manager on Ethernet and Token Ring).

The Most Advanced Network Reliability

The design of Magnum100 incorporates dual counter-rotating rings, a "self-healing" mechanism that greatly enhances network reliability. Two separate fiber-optic communications paths are utilized with this design, providing almost instantaneous link recovery and added peace-of-mind for network administrators. When Magnum100 is configured with redundant common logic modules and dual counter-rotating rings, if a cable breaks, the network will switch to the operational cable. If both rings fail between nodes, the network will reverse itself and maintain total network integrity. And if equipment fails, the network will automatically wrap itself between accessible active nodes.



By employing two separate fiber rings moving information in opposite directions, Magnum100's dual counter-rotating rings greatly increase network reliability by maintaining network integrity in the case of link or equipment failure.

Enhanced Configuration and Bandwidth Flexibility

Designed to allow data communications managers to painlessly adapt to the changing requirements of their enterprise, Magnum100 provides maximum flexibility in configuring your fiber-optic backbone. From a single point-to-point application to a multi-site backbone, Magnum100 delivers cost-effective connectivity. Flexible bandwidth allocation, which automatically allocates the proper amount of bandwidth for a specific application, allows both high- and low-speed signals to coexist on the same network for the most efficient use of network resources.

The Inherent Advantages of Fiber Optics

Fiber-optic backbones like Magnum100 allow very high-speed data transmission in real-time while providing greatly enhanced signal integrity, data security and protection from electrical interference. Those benefits along with its progressive affordability have made fiber the dominant media for high-speed backbones. And perhaps more importantly, fiber will give you the bandwidth to accommodate the needs of your growing enterprise network.

LightWatch: Detailed Backbone Management

Through its LightWatch network management system, you can control the most complex environments, up to 16 separate Magnum100 rings (128 nodes), from a single console. And LightWatch for Magnum100 is SNMP compatible, containing a proxy agent so that you can monitor your Magnum100 networks from any SNMP management system.

With LightWatch you can monitor I/O module status, initiate and clear loopback tests to isolate problems and facilitate added network security by assigning "user" and "supervisor" passwords. The "control logic" modules in each Magnum 100 node continually send diagnostic and configuration information over a serial port to the DOS-based LightWatch software.

A Unique, Cost-Effective DS-3 Option

In certain enterprise networking environments, right-of-way or distance limitations may prohibit the use of fiber cable. Designed to help you get the most out of your DS-3 link, Magnum100 features a DS-3 common logic module that allows you to send LAN and other data signals over the public network at their native rate. This native rate transport eliminates throughput bottlenecks and ensures signal integrity over longer, DS-3 distances.

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