

INFINIUM ACCLAIM™ FIBER SOLUTION

REDEFINING PLUG & PLAY MOBILITY FOR FIBER CABLING

**PHASING OUT CASSETTE-BASED CABLING SOLUTIONS IS THE KEY TO
BETTER OPTICAL PERFORMANCE, INCREASED SCALABILITY & LOWER COSTS**

INNOVATION REQUIRES CREATIVITY AND SIMPLICITY

Think about the mission-critical spaces of the future. As data volumes increase globally (by 2025, the world will produce over 180 zettabytes of data, up from 79 in 2021) and data gravity shifts to the edge, IT and network infrastructure is no longer confined to any one facility. Anywhere can now be transformed into a mission-critical space that requires rapid deployment of vital equipment like servers, racks, and fiber cabling. As a result, today's critical infrastructure operators need a new generation of tools that can help them simplify and streamline their operations, opening up a whole new world of possibilities for flexible data storage, computing, and networking.

But where does the journey towards mission-critical spaces that are ingenious in their simplicity begin? At Legrand, we believe everything starts at the ground level with creatively reimagined fiber cabling solutions that simplify deployment, lower costs, improve performance and enable greater densities to meet future capacity demands.

CHAPTER 1: REIMAGINING FIBER CABLING WITH INFINIUM acclA/M

Cassette-based forms of cable management within mission-critical spaces all pose varying challenges around polarity, optical loss, rapid deployment, and costs. Without a compelling alternative solution, these issues have often been viewed as an accepted frustration. Here is where the Legrand team saw an opportunity to make life better and more lucrative for critical infrastructure operators.

Legrand's Infinium acclA/M redefines connectivity by replacing pre-terminated cassette-based cabling solutions with direct connections, eliminating costly components and time-consuming processes. A first-of-kind, Infinium acclA/M is the only fiber cabling connectivity solution on the market that offers the lowest optical loss and a significantly simplified installation and configuration process (the product design requires end-users to order only three parts) that results in virtually unlimited scalability for critical infrastructure operators. Simply put, Legrand's Infinium acclA/M cabling solution takes the antiquated, inefficient, and messy way of connecting or mating cables within the data center and other -critical environments, and reimagining that connection to be simpler, smaller, more intuitive, better performing and easier to use.

To help you understand better how Infinium acclA/M works and, more specifically, how it impacts real-world mission-critical operations, we're sharing the story of how our product enabled the rapid deployment of critical infrastructure as well as vital mobility for Cisco's team members at the 2022 Cisco Live event in Las Vegas, NV.

CHAPTER 2. TRANSFORMING CISCO LIVE WITH INFINIUM acclA/M

Cisco needed a network and cabling solution partner that could support its massive Cisco Live event and Network Operations Center (NOC).

At the same time, its team members were onsite at the event in Las Vegas. Critically, Cisco needed the ability to decouple its infrastructure quickly from the network and relocate it to various locations during the event. The event had to run smoothly and without disruptions of any kind (equipment, connectivity, power, etc.), and the network was at the core of success or failure.



The bottom line is that Cisco needed a solution that combined ultra-low loss with quick deployment and simplified design that reduced the inventory of other polarity-based cassettes and trunks. Legrand's Infinium acclA/M did just that.

Mobility

The foundational aspect of any network is its layer-one connectivity, and, at the Cisco Live event, racks were at the epicenter of the event's mission-critical network. For the duration of the event, these racks often had to move from a staging location to various event venues with ease; as such, simplicity of cabling was essential. Using Legrand's Infinium acclA/M fiber optic cabling solution, Cisco's IT and network managers prepared the racks for transport by simply unplugging the trunk cables while leaving all patch cables within the racks. Then once moved, they merely pulled the trunk cables back into place and powered on the servers. In other words, Infinium acclA/M is plug-and-play cable management reimagined for today's critical infrastructure managers and operators.

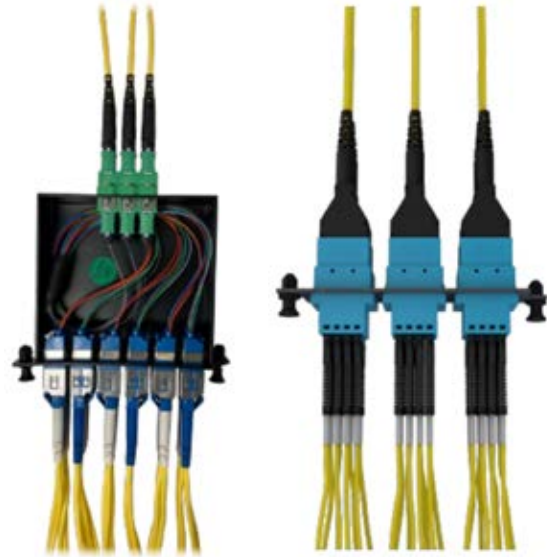
Robust Connectivity

The ease of acclA/M's installation and configuration capabilities is also partnered with the fact that this product offers the lowest levels of optical loss available in pre-terminated fiber optic cable assemblies. At the event, the Cisco team enjoyed extremely minimal levels of loss across their acclA/M Conversion Adapter Panels that were coupled with MDC to LC patch cords. Here's why. The Legrand solution removes the need for extra glass or fiber strands between the patch cord and the trunk cable, thereby lowering loss and simplifying the installation. This provided the Cisco Live team with a high level of confidence in their connectivity between racks as well as with remote connections to MDF/IDF closets. In addition to the low level of loss, Infinium acclA/M's application-defined polarity also helped Cisco's personnel avoid typical patch polarity issues, especially around matching the correct parts.

CHAPTER 3. MORE ON HOW INFINIUM acclA/M WORKS

Infinium acclA/M connectors mate directly to an array of 2-fiber duplex MDC patch cords through an Infinium acclA/M Conversion Adapter Panel. The acclA/M solution utilizes its Conversion Adapter Panel as a pass-through adapter, which passively adapts the acclA/M octal fiber connector to four MDC 2-Fiber Duplex Connectors. This simple yet robust design makes acclA/M a vital building asset that will transform mission-critical spaces for decades.

Infinium acclA/M is now being used by some of the world's most innovative and progressive data center organizations. This reimagining has profoundly impacted our customers' efficiencies and bottom line. We're reducing the total cost of ownership (TCO) of mission-critical spaces while improving their efficiency and performance - and it all begins by enabling direct fiber cable connections.



Here are a few key benefits of the Infinium acclA/M solution:

Minimized Optical Loss

- Reduces insertion loss
- Minimizes/eliminates the need for splicing
- Provides only connectivity on the market with a near-lossless link

Easier Network Configuration

- Offers the ultimate plug and play flexibility
- Provides increased room to work on each panel
- No gender considerations
- Application-defined polarity: no options to determine when ordering/designing

Reduced Time to Deploy

- Speed up cable installations by 40%.
Change existing configurations 60% faster
- Reduce post-connection testing time by 50% and swap polarity in less than 6 seconds
- Short lead times enable rapid deployment

Enhanced Scalability

- Single installation covers multiple lifecycle generations
- Enables UHD+ (192 fibers per RU, which is 33% more than typical High Density)
- Reduces CAPEX/OPEX throughout life of service

CHAPTER 4. DISRUPTING AN INDUSTRY

Cisco ultimately selected Legrand as an equipment provider for its Network Operation Center (NOC) at the 2022 Cisco Live event in Las Vegas, NV. In addition to the Infinium acclA/M fiber solution, the IT architects creating Cisco Live's NOC also selected the following Legrand solutions to ensure robust connectivity:

The Cisco Live event was a microcosm of what we see in the real world, every day. It's a popular expression that the devil is in the details. At Legrand, we believe this is also where some of the most impactful benefits for the mission-critical infrastructure industry exist. Addressing the challenges associated with the smallest components of your data and other critical infrastructure can have profound implications on efficiency, productivity, performance, scalability, and profitability. Legrand's Infinium acclA/M cabling solution does just that, and the results are indisputable. In short, acclA/M provides critical infrastructure operators with a multi-generational lifecycle – all with a single installation of a sustainable building asset.

Together, the benefits of this simple yet groundbreaking solution to the problems of cassette-based cabling products can help streamline and simplify your mission-critical spaces today for tomorrow's innovations. Start your journey to optimized performance and lower CAPEX/OPEX today.

> FOR MORE DETAILED INFORMATION





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