



Welcome Note

From the Alliance Leadership

The world of fault managed power is rapidly evolving. As the technology becomes more mainstream and gains momentum, industry standards and codes are also advancing to support safer, more flexible and more scalable power solutions across a wider variety of applications. Committee meetings and collaborative efforts are progressing smoothly, ensuring that FMP continues to advance with strong industry support. These developments underscore the industry's commitment to establishing clear guidelines and best practices for FMP. They help pave the way for innovation, broader adoption and new possibilities in connected devices and intelligent infrastructure.

The FMP Alliance is also growing, as we continue to welcome new members, increase our presence at industry conferences and events, and educate the industry on what FMP can do.

Stay tuned as we continue to track important milestones and share key updates.

ALLIANCE HIGHLIGHTS

Recent Milestones

In April 2025, the FMP Alliance launched its LinkedIn presence and has steadily grown to more than 145 followers so far. The page features weekly posts centered around an “Ask the Expert” series, providing insights and industry expertise on FMP.

Our members answer frequently asked questions every Friday.

Make sure you're following!



Leading the Charge in Fault Managed Power

We founded the FMP Alliance to champion and encourage the widespread adoption of fault managed power across diverse industries.



Educating Realcomm 2025 Attendees

The FMP Alliance was well-represented at Realcomm in Savannah, GA, with its members exhibiting in the Electrify / DC Power Pavilion to showcase the latest innovations in electrification. Belden's Ron Tellas, Cisco's Jason Shearer, Panduit's Bob Voss, and VoltServer's Ronna Davis led sessions on limited energy, code updates and the future of DC-powered networks.



IT Leaders Learn About FMP at Cisco Live! 2025

Cisco and Panduit were exhibitors at Cisco Live! in San Diego, June 8-12, offering hands-on access to and information about their FMP products.



Data Center Conversations at DCD Connect 2025

On March 24-25, 2025, FMP Alliance members Belden, VoltServer and Xtreme Power Conversion, attended DCD Connect in New York City to showcase how FMP can transform power infrastructure. Great conversations were had about how fault managed power offers a practical way for operators to manage data center infrastructure costs while delivering high-performance AI capabilities.



FMP Is Showcased at the 2025 NFPA Conference

The FMP Alliance joined more than 8,200 electrical safety, life safety and fire prevention professionals for the NFPA Conference & Expo, held June 16-20, 2025, in Las Vegas. Members participated in exhibitions on the show floor and attended committee meetings throughout the week.

EDUCATION

The Role of Fault-Managed Power in Extreme Environments

Establishing reliable remote connectivity in harsh environments like the desert presents a variety of unique challenges: extremely high temperatures, dust storms, strong winds and minimal rainfall. None of these factors are conducive to power and data connectivity. Because these climate extremes can't be eliminated, they must be carefully managed with the right technology and infrastructure to ensure consistent performance.

Recently, fault managed power proved it was up to this task when it was used to bring power and data to an application in the middle of a desert, despite the lack of established infrastructure. To support connectivity for surveillance cameras and wireless access points critical to operations for a nearby airport, a Belden IP-67 outdoor-rated integrated cabinet was deployed.

Because traditional infrastructure isn't designed to withstand these environmental conditions, ruggedized PoE switches from Hirschmann and ruggedized power supplies from VoltServer are housed within the cabinet. These solutions are made to endure tough weather.

Supported via FMP to deliver safe, continuous power, this solution creates an IDF-anywhere setup. It operates as a self-contained, remote hub that enables connectivity in extremely isolated areas to allow for flexible deployment without reliance on existing infrastructure.

In these conditions, fault managed power demonstrated that it can provide consistent, safe power delivery while reducing installation complexity.

As more organizations explore their options for efficient power and connectivity, this deployment showcases the potential that exists for scalable, resilient infrastructure—even in the harshest environment on the planet.



See the [Matching Case Study](#) highlighted on the following page, for more detailed information.

CASE STUDY

Resort of Technology: Improving the Guest Experience

A major resort in the United States is prioritizing sustainability and environmental friendliness while creating a never-before-seen atmosphere of casual luxury—and it's leaning on technology to do it.

Leading with cutting-edge innovation in every aspect of the guest experience, the property aims to offer an environment that makes everyone feel comfortable and welcome.



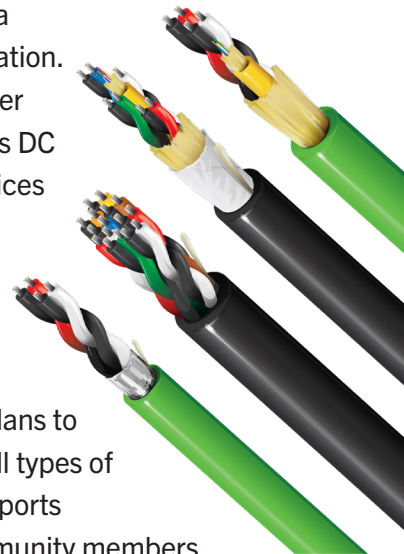
To enable this kind of atmosphere, Belden and UberData Networks worked together to deliver unparalleled connectivity.

The resort's back- and front-of-house lighting, communications and IoT control systems are all powered by VoltServer's Digital Electricity® and Belden's Fault-Managed Power System (FMPS) Cables.

The property relies on limited-energy technology to deliver power efficiently and across long distances—taking it straight to guestrooms—while ensuring safety, intelligence and control and offering lower energy costs compared to a traditional electrical installation. From the guestrooms, Power over Ethernet (PoE) delivers DC power and data to end devices through network cables.

With FMP in place, technology is set to become the resort's differentiator: The owner plans to use technology to attract all types of guests, from professional sports organizations to local community members.

With a technology roadmap in place, the future is full of potential for the property as it considers everything from implementing RFID tracking to rolling out property-wide 5G—and FMP is set to help it realize these opportunities. Because FMP is more scalable and flexible than traditional power systems, the property will be able to add new devices and amenities without major rewiring or infrastructure upgrades that could be expensive and create disruptions. As technology and guest expectations evolve, network expansion will be simple.



INDUSTRY TRENDS & NEWS

Upcoming Revisions to the 2026 National Electrical Code

Work on the 2026 National Electrical Code® (NEC) is almost complete, with the update expected to launch later this year. Once the 2026 edition is available, work will begin on the 2029 NEC in September 2025.

The 2026 NEC is set to introduce three key changes to unify standards and streamline installation practices.

1. Removal of Chapter 8's Independence

Historically, Chapter 8 (communications systems) was separate from Chapters 1-7 due to distinct installation methods. The 2026 NEC eliminates Chapter 8's exemption to create a more cohesive standard.

2. Definition of Limited-Energy Cables

To support the removal of independence of Chapter 8, the 2026 NEC introduces the term "limited-energy cables" in Article 100. Cables for Class 2, 3 and 4 circuits; optical fiber; CATV; broadband; fire alarms; and premises communications will now be treated consistently across the code, ensuring clear installation guidelines.

3. Reorganization of Articles in Chapter 7

Articles from Chapters 7 and 8 will be consolidated for better alignment with NEC structure. Redundant information will be removed, and a general article will outline requirements, directing users to specific sections as needed. Key articles include installation standards, power sources, cable specifications, grounding, fire alarm systems and broadband communication.

How to Learn More

After it's issued, the 2026 National Electrical Code will be available in print or digital format. The best way to learn more about the code is to spend time reading it. It can be accessed online at no cost.

FMP Alliance Set to Educate Electricians at NECA

Panduit's Bob Voss, Belden's Ron Tellas and VoltServer's Ronna Davis are leading a panel discussion at NECA to help electricians understand the opportunities that await with fault managed power. Moderated by NECA's Jeff Beavers, the session will help them understand how the technology works, how it's different from the methods they're used to and how it can help them solve customer challenges in new ways and explore new revenue opportunities.

The Industry Advances: Industry Advances: An Update on FMP Standards and Codes

NECA | The third revision of NECA Article 726, which establishes requirements for fault managed power, was re-circulated for review on May 13, 2025, and the comment period closed on June 27. This revision process allowed stakeholders to provide feedback and ensure that the standard meets current industry needs before it's finalized.

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INDUSTRY TRENDS & NEWS CONTINUED

ATIS | ATIS is currently working on a possible standard for electrical and surge protection specifically for Fault Managed Power Systems (FMPS), with the effort underway in a dedicated task group. This initiative aims to address protection requirements as FMPS technology becomes more widely adopted in telecommunications and related industries.

UL 1400-1 | UL 1400-1 is currently undergoing editing and clean-up in preparation for its next step, which involves submitting a Standards Request (SR) for the outline. This process is part of moving UL 1400-1 toward becoming a formal ANSI standard, ensuring that it meets necessary requirements and industry consensus.

UL-1400-2 | UL-1400-2



NEW MEMBER SPOTLIGHT

We are honored to welcome the following new members to FMP Alliance.



Dr. Deniz Besiktepe is an assistant professor in the School of Construction Management Technology at Purdue University Polytechnic Institute. She has a PhD in Civil Engineering with a focus on construction engineering and management and has decades of construction and facilities management experience. Her research interests include facilities management and the built environment, building maintenance, condition assessment, decision-making models, fuzzy applications and implementing data-driven techniques in facilities management.

UPCOMING EVENTS

**ISE EXPO 2025**

July 29-31, 2025 – Ernest N. Morial Convention Center, New Orleans

**BICSI Beyond 2025**

Aug. 17-20, 2025 – The Venetian Resort, Las Vegas

**NECA 2025**

Sept. 13-15, 2025 – McCormick Place, Chicago

**IFMA World Workplace 2025**

Sept. 17-19, 2025 – Minneapolis Convention Center

THIS EDITION'S SUCCESS STORY

IEEE Award

VoltServer's Engineering Team (Jonathan Casey, Dave Lorusso and Stan Mlyniec) won the Best Paper Award at the IEEE International Symposium on Product Compliance Engineering. Their award-winning paper highlights VoltServer's continued leadership and innovation in the field of fault managed power.

From the abstract:

Fault managed power systems revolutionize power distribution by integrating advanced fault detection, energy limitation, and functional safety. This paper provides an overview of fault managed power, including origins, benefits over traditional AC power distribution, infrastructure applications, hazard mitigation and functional safety mechanisms. Compliance with standards like UL 1400-1, UL 62368-1, ATIS 0600040, and IEC 61508 is also covered, highlighting fault managed power's safety, efficiency, reliability, and advantages in modern power infrastructure applications.

**Invisacook Induction Cooktop with HVDC**

Appliances are already making the shift to high-voltage direct current (HVDC) internally. Forward-thinking manufacturers are leading the way with Nationally Recognized Testing Laboratories (NRTL) Listed innovations. Invisacook, for example, has worked closely with VoltServer to release an HVDC-qualified induction cooktop that cooks through the countertop.

These products reflect the growing adoption of HVDC in residential and commercial applications, setting the stage for safer, more efficient and future-ready electrical systems like FMP.

Learn more: <https://lnkd.in/eEy9xpzc>

Realcomm Digie Award

VoltServer as awarded the 2025 Digie Award for Best Tech Innovation DC Power at Realcomm.

MEET OUR LEADERSHIP TEAM

Meet Ron Tellas, our technical committee chair and board member. He's a subject-matter expert in RF design and electromagnetic propagation and joined Belden in 2016 to help define the roadmap of technology and applications in smart buildings. He uses his experiences to incorporate systems, equipment and connectivity into network solutions. He represents Belden in several standards organizations and NEC committees. He has a master's and bachelor's in electrical engineering, has an MBA and is inventor of 17 U.S. patents. He's also a proud recipient of the 2024 Harry J. Pfister Award.

SNAPSHOTS OF THE QUARTER



Mahmoud Ibrahim of Panduit and Jason Shearer of Cisco present *FMP Design and Installation* at BICSI Winter 2025



Luke Getto of VoltServer presents *FMPS Technology, Installation and Maintenance* at PEG/ATIS Conference



FMP Design and Installation at BICSI Winter 2025 participants build out FMP system in hands-on masterclass



FMP Design and Installation Practical Deployment of Fault Managed Power presented by Frank Straka of Panduit and Jason Shearer of Cisco

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FMP Alliance

Our mission is to drive the global transition to reliable, safe and sustainable fault managed power technology.

Non-profit Organizations