

SIEMON | NEWS, EVENTS, AWARDS, PRODUCT & CASE STUDIES...

CABLING FOR THE FUTURE

Innovate

The Siemon Company Newsletter | Issue 13

CONNECTING THE WORLD TO A HIGHER STANDARD

New Video Showcases Siemon's
WheelHouse™ Advanced Data Center Solutions

P04

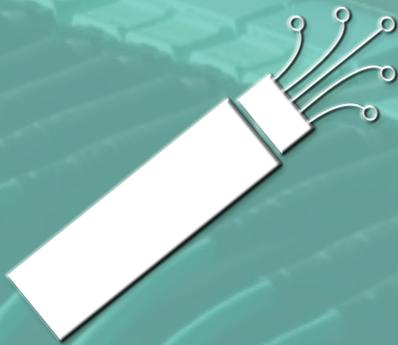
Siemon publishes planning guide for Power
over Ethernet lighting applications

P22



LightStack™

LightStack™



ADVANCED Fiber SOLUTIONS



Download the Full White Paper

What's the cost of Downtime to you?

There are many reports from Gartner*, IDC and others that calculate the cost of downtime in the Data Center. And the findings are staggering. So if data is so critical to the performance and efficiency of businesses, why would companies risk downtime by installing low quality assemblies?

New optical fiber technologies and standards have thankfully made it easier, more cost-effective and less complex to deploy high speed fiber backbone links.

*59% of network problems are caused by the physical layer (Gartner Group)

With today's 40 and 100 Gig fiber applications using the MPO/MTP interface, overall performance is critical. Unfortunately, not all MPO/MTP assemblies are created equal, and selecting lower-cost versions from unproven sources can compromise performance. Siemon's new comprehensive White Paper 'A closer look at Plug and Play MPO/MTP Assemblies' explores the considerations and implications of deploying low-cost, low-quality assemblies to support your critical network infrastructure.



CONNECTING THE WORLD TO A HIGHER STANDARD

WWW.SIEMON.COM/LIGHTHOUSE

In this issue...

Click on what you would like to read and simply turn the page to read more.



P04

NEWS ROUNDUP

New Video Showcases Siemon's WheelHouse™ Advanced Data Center Solutions.

EXPLORE



P06

CONVERGEIT™ ROUNDUP

Intelligent Building Cabling Solutions Support PoE Lighting for a Better Education Environment.

EXPLORE



P08

PRODUCT FOCUS

Siemon Reduces Cost and Time with LightBow™ Advanced Fiber Termination System.

EXPLORE



P10

CASE STUDY

Siemon helps Flexenclosure create a Data Center of excellence for ACS.

EXPLORE



P12

PRODUCT ROUNDUP

Siemon discusses the features of the Z-MAX® 6A Shielded Category 6A System.

EXPLORE



P22

60W PoE LIGHTING WHITE PAPER

Siemon publishes planning guide for Power over Ethernet lighting applications.

EXPLORE





WATCH: New Video Showcases Siemon's WheelHouse™ Advanced Data Center Solutions

Siemon recently announced the release of a new video for its WheelHouse advanced data center Solutions. Siemon's WheelHouse delivers a comprehensive range of

advanced data center solutions to support any size and type of data center.

[EXPLORE](#)

Siemon exceeds ISO/IEC class II channel requirements with TERA®

Siemon is pleased to announce that our fully shielded TERA end-to-end twisted-pair copper cabling system exceeds the draft class II requirements of ISO/IEC 11801-1 (Committee Draft N2483). Class II channels and permanent links are qualified

up to 2 GHz and constructed from category 8.2 connecting hardware, cables and cords to meet future 25 Gb/s (25GBASE-T) and 40 Gb/s (40GBASE-T) applications.

[EXPLORE](#)



Siemon Showcases 113 Years of Innovation at Connecticut Historical Society

In November, Siemon was honored to participate in Connecticut Innovates! - a new exhibition at the Connecticut Historical Society that aims to explore the environment, people and resources that has led Connecticut to be a hot-spot of innovation. Siemon's display at Connecticut Innovates! showcases the company's rich 113-year history of innovation that began

with Carl F. Siemon's expertise in plastics in 1903.

The Connecticut Innovates! exhibit ran from November 11, 2016 through March 25, 2017 at the Connecticut Historical Society Museum at One Elizabeth Street in Hartford, Conn.

[EXPLORE](#)

Siemon One of the First to Achieve ISO 9001:2015 Recertification

Siemon is proud to announce our achievement of becoming one of the first companies globally to be certified for the latest revision of the ISO 9001 quality management standard by Lloyd's Register Quality Assurance (LRQA). To achieve this milestone, LRQA conducted a full

system audit of the Siemon Company's Watertown, Connecticut headquarters, as well as the company's Chertsey, UK; Brno, Czech Republic; Shanghai, China; and Tijuana, Mexico locations.

[EXPLORE](#)

Siemon Achieves ISO 14001:2015 Recertification

Following on from the recent success of ISO 9001:2015, Siemon is also pleased to confirm our certification for the latest ISO 14001 environmental management standards by Lloyd's Register Quality Assurance (LRQA). Intended for use by organizations seeking to manage its environmental responsibilities in a

systematic manner that contributes to the environmental pillar of sustainability, the ISO 14001 standard specifies the requirements for an environmental management system that an organization can use to continually improve its environmental performance.

[EXPLORE](#)



Intelligent Building Cabling Solutions Support PoE Lighting for a Better Education Environment

The Internet of Things (IoT) is changing the way of life as we know it. Low-voltage devices are now converging on a single unified physical infrastructure, allowing for the collection of large amounts of data that can be exchanged between integrated building systems and analyzed to make business decisions that help save operating expenses while improving efficiency and user experience

To further accelerate digital transformation and extend the benefits of the IoT throughout facilities, Cisco recently introduced their Digital Building Solution that converges multiple building networks - lighting, heating and cooling, IP video, IoT sensors and much more - on a secure and intelligent network platform.

Included in the Cisco Digital Building Partner Ecosystem are a variety of industry leading partners to help build a Digital Building, including lighting, building automation, cabling and software providers. A key aspect of the solution includes the use of Cisco network switches delivering Universal Power Over Ethernet (UPOE) that extends the IEEE

Power over Ethernet Plus (PoE+) standard to deliver up to 60 Watts (W) to low-voltage devices, including PoE-powered LED lighting fixtures with sensors that have the potential to provide 85% lower energy costs. Siemon, a global market leader in the design and manufacturing of high-performance, low-voltage infrastructure solutions, is currently the only end-to-end provider of cabling systems within the Cisco Digital Building Partner Ecosystem. Unequivocally aligned with Cisco's initiative, Siemon's ConvergeIT Cabling Solutions include advanced copper shielded cables and connectivity with patented innovative technologies that provide superior support for PoE-enabled devices.



EXPLORE

Bringing Low-Voltage Business Opportunities to Light

The exponential growth of IP-based Intelligent Building and PoE Lighting technologies is rapidly converting network cabling from its traditional role as datacom-only infrastructure to a whole building asset – and that brings a whole new world of business opportunities and growth to network and low-voltage (LV) cabling contractors.

In other words...Your low-voltage expertise is in high demand. As an LV professional, you already understand the basic ins and outs of IP network deployment, and that gives you a leg up in the Intelligent Building and PoE Lighting market.

And, as a Siemon Digital Lighting Partner (DLP), you'll gain the support, tools, and resources you need to turn your in-demand expertise into new business opportunities.

Siemon DLP delivers the 2 things network and low-voltage contractors need to succeed in the intelligent building and PoE lighting market

1. Access to Customers and Project Opportunities

The DLP program was developed to help customers deploy IP-based intelligent building and PoE lighting technologies by connecting them with low-voltage experts like you.

2. Expertise and Support

Siemon's DLP program is specifically designed to help you leverage your IP infrastructure expertise to become a go-to expert in the PoE lighting space.

As a DLP, you gain exclusive access to:

- Comprehensive Training and Education
- Expert Support
- Solution Selling
- Design Assistance
- Vendor Alignment
- Pre-Sales Support and Proposal
- Coordination



SIEMON
DLP
Digital Lighting Partner™

Bringing Low-Voltage Business Opportunities to Light

There is a revolution happening right over our heads, and it brings a whole new world of business opportunities and growth to network cabling professionals.

**Interested in
Becoming a DLP?**

**Interested in
Locating a DLP?**



Siemon Reduces Cost and Time with LightBow™ Advanced Fiber Termination System

Siemon recently announced the launch of our new LightBow™ Fiber Termination System that continues to improve fiber termination speed, performance and reliability while reducing cost.

Part of Siemon's LightHouse™ Advanced Fiber Optic Cabling Solutions, the new LightBow Termination System features an exclusive patent-pending termination tool and pre-polished mechanical splice connectors that together reduce termination time, prevent fiber end face contamination and air gaps, and enable easy verification of termination quality. Ergonomically optimized for use in handheld or table-top orientation, Siemon's LightBow termination tool dramatically reduces termination time by combining both

splice activation and crimping in a single, optimized step and providing universal LC and SC connector compatibility with no time-consuming changeover. It also features integrated LC and SC strip templates molded right into the tool to ensure proper strip length of the fiber. To enhance connector performance, the tool's alignment channels simplify fiber insertion, while its patent-pending bow feature maintains proper pressure of fiber ends during termination to eliminate air gaps.



[EXPLORE](#)

Siemon's Value Rack Saves Time and Money

Siemon has expanded its RS series of equipment racks with a new cost-effective 'Value Rack', designed for mounting and securing IT equipment in a variety of telecommunications spaces.

Ideal for saving time, money and valuable floor space, this sturdy 2-post open rack features EIA-310-D 19-inch universal rail spacing with mounting holes in 76mm (3 in.) deep channels and 44.5mm (1.75 in.) marked and numbered U spaces.

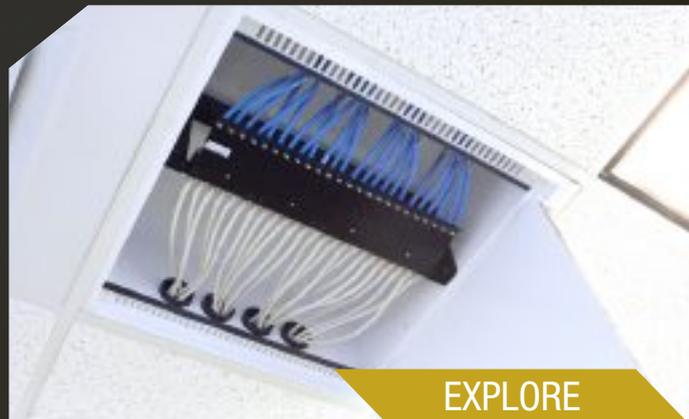
Siemon's Value Rack is easy to assemble with standard hand tools and mounting holes for anchoring to the floor while its heavy duty construction offers a 544 kg (1200 lb.) weight capacity. The Value Rack features an integrated ground path with bonded assembly and ground studs, an open header design for routing cables and securing cable tray and U space markings that remain clearly visible with rack-mounted equipment installed.

[EXPLORE](#)



Siemon's Passive Ceiling Zone Enclosure Optimizes Digital Ceiling Deployments

Siemon has released a new Passive Ceiling Zone Enclosure that installs flush within a 2 X 2 foot drop ceiling tile space to support flexible, cost-effective zone cabling in today's highly automated buildings by enabling shorter, easy-to-manage copper or fiber connections directly to building devices or to equipment outlets supporting a variety of low-voltage building systems.



[EXPLORE](#)

Siemon helps Flexenclosure create a data center of excellence for ACS

As one of the world's leading designers, manufacturers and assemblers of modular prefabricated data centers, Flexenclosure only uses best in class components within its facilities. That's why it used cutting edge network infrastructure technology from Siemon throughout a new facility it created for Angola Comunicações e Sistemas (ACS).

This was a considerable undertaking and rather than going for a traditional bricks and mortar construction, it was felt that a modular prefabricated data center would offer a more scalable and flexible solution. Pioneering Swedish data center specialist, Flexenclosure, was invited to offer a proposal and Tomas Rahkonen, the company's Chief Technology Officer, comments, 'Since 1989 we have specialized in designing and deploying prefabricated data center buildings in some of the world's most extreme environments. Our brief from ACS was not short of challenges, but we were confident in our ability to

deliver exactly what the customer wanted.' Flexenclosure's eCenter is a custom designed, prefabricated data center that is fast to deploy, energy efficient and easy to expand. Rahkonen says, 'By prefabricating a data center, the building itself becomes as much a component of the "machine" as the cabling, power units, cooling system and the server racks. And this allows for the full pre-integration and testing of all systems in a clean factory environment, with the result that a customer can be confident that their data center is fully operational and optimized for performance before it ever reaches the site for final construction.'



flexenclosure

“We have worked with Siemon for a number of years and believe that it is one of the leading vendors of structured cabling in the market. We pride ourselves on delivering the highest quality data centers and, as such, it’s important that we work with the leading cabling suppliers. Siemon never fails to provide a total solution when it comes to quality, technical support, prompt delivery and overall value, and as a certified installer of its products, we can offer its 20-year warranty to all of our customers.”

Tomas Rahkonen, CTO, Flexenclosure

[EXPLORE](#)

Z-MAX[®]

Shielded Category 6A System

Combining consistent best-in-class performance, unparalleled usability and speed of termination with the security and robust noise immunity of a shielded cabling system, Siemon's Z-MAX 6A shielded end-to-end solution represents the cutting edge of category 6A cabling.

The Z-MAX 6A shielded system provides the highest margins on all ISO and TIA performance requirements for Category 6A/Class EA, including critical alien crosstalk parameters.

Siemon's Z-MAX 6A shielded channel consists of the shielded Z-MAX 6A outlet, Siemon category 6A F/UTP cable and Z-MAX patch panels as well as shielded, stranded or solid cord options.



Optimized For Alien Crosstalk Elimination

Diagonal IDC alignment maximizes outlet to outlet pair separation to achieve AXT performance in high-density environments.

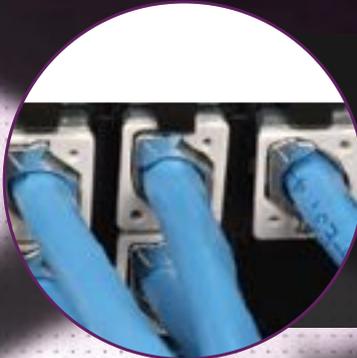
[EXPLORE](#)



Flexibility and Simplified Ordering

A single hybrid outlet supports both angled and flat mounting orientations.

[EXPLORE](#)



Installation Friendly Patch Panels

Quick-Snap feature allows Z-MAX panel outlets to quickly be inserted and removed.

[EXPLORE](#)



Quick-Ground™ Termination

Cable shield is automatically terminated to the outlet without additional steps.

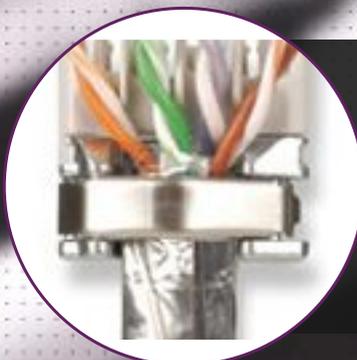
[EXPLORE](#)



100% Jack-to-Jack Plastic Isolation

Plastic bezels prevent contact between metal housings when side stacking to ensure ground quality and ANEXT performance.

[EXPLORE](#)



Enhanced Shielding Effectiveness

High level of shielded effectiveness exceeds ISO 360 degree shielding requirements via die cast housing and hinged cable retention/grounding clip.

[EXPLORE](#)

[LEARN MORE ABOUT Z-MAX TERMINATION](#)

STANDARDS INFORMANT

“Developed by Siemon’s experts to help you stay up-to-date on international network cabling and data center standards.”



FIND OUT MORE >>

OM5 Recognized by TIA and IEC. What Now? >>>

With the recent designation of Wideband Multimode Fiber (WBMMF) as OM5 and recognition from the latest IEC and TIA standards, what are the implications for your infrastructure?

Singlemode or Multimode for Big Data in the Data Center? >>>

The IoT is rapidly evolving and brings many great advantages to organizations. However, the vast amount of Big Data that is expected from IoT, as well as from increasing storage intensive and Cloud-based applications, has a significant impact on data centers. What is the impact? What considerations do you need to be aware of?

Why 8-Fiber MPO/MTP Solutions Are Your Path of Least Resistance >>>

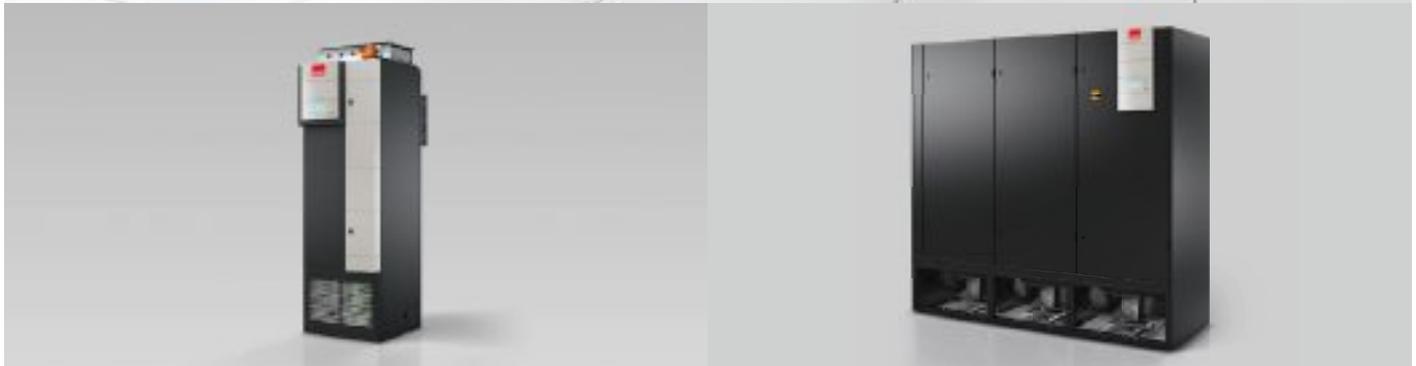
In looking at current and future applications – for both Multimode and Singlemode – it is easy to see that the foreseeable future will be dominated by 2- and 8-fiber solutions. What does this mean for existing 12-fiber MPO/MTP connections?



Upgrade your
data centre
with high
performance
cooling

STULZ

CLIMATE. CUSTOMIZED.



STULZ Cooling Solutions **Experience since 1971**

For more than 40 years, STULZ has excelled in the development of precision air conditioning systems for data centres. This experience, coupled with the knowledge gained with thousands of successful projects around the world, is reflected in our innovative refrigeration solutions. Our different air conditioning systems are available in numerous sizes and represent quality and safety without compromise. www.stulz.co.uk

Expanding Networks. Creating Opportunities.

2017
BICSI Winter
Conference
& Exhibition
Jan. 22-26
Tampa, FL

Siemon Showcases Advanced Cabling Solutions and Expertise at 2017 BICSI Winter Conference

In January, Siemon exhibited at the BICSI Winter Conference and Exhibition that took place at the Tampa Convention Center in Tampa, Florida where we showcased a variety of advanced cabling solutions for data centers, LANs and intelligent buildings. On display were several of Siemon's WheelHouse™ Advanced Data Center Solutions that included plug and play fiber solutions, such as the LightStack® Ultra High Density System and innovative LC BladePatch® jumper with push-pull activation for easy access. Siemon also demonstrated the fast, reliable fiber terminations enabled with the LightBow™ Fiber Termination System. As part of their ConvergeIT™ Cabling Solutions for

Intelligent Buildings, Siemon showcased a digital lighting demonstration at their booth. Following the opening keynote speaker on Tuesday, January 25th, Valerie Maguire, Siemon's Global Sales Engineer, presented "Best Practices for Networking Intelligent Devices: Zone Cabling and Coverage Area Planning." In this informative presentation, Valerie provided an in-depth overview of zone cabling, its benefit for today's converged networks and key design guidelines for a variety of building spaces. The presentation was extremely well received, and afterwards, many visitors stopped by the booth during exhibit hours to pick up a copy of Siemon's new white paper on the topic.



EXPLORE



Siemon takes Center stage at Cairo ICT

In late 2016, Siemon joined local distributor MBK at the prestigious Cairo ICT event, hosted at the Cairo International Conference Center (CICC). One of the top international events in the Africa and Middle Eastern regions, the event was focused on the changing face of business, living and social environments in the modern 'Disruptive Digital Era' and targets senior executives and key decision makers from various vertical sectors.

[EXPLORE](#)



Siemon exhibits at IT Room Infra Event

Siemon exhibited at the IT Room Infra event in Den Bosch alongside our key local partner Forehand. IT Infra is the region's largest data center event and showcases the latest trends and developments in the DC market to key industry experts and decision makers. At the event we promoted an in-depth overview of our WheelHouse™ advanced data center solutions portfolio, including our innovative VersaPOD® data

center cabinets, LightStack® ultra-high density fiber enclosures, LC BladePatch® fiber jumpers, PowerMax™ Intelligent PDUs, Z-MAX® and TERA® copper solutions and MapIT®G2 Automated Infrastructure Management (AIM) system to a packed hall of attendees and generated a lot of good discussion, interest and future opportunities.

[EXPLORE](#)



Siemon and ISG collaborate at WorkTech 2016

In late 2016, Siemon and complementary partner ISG jointly supported the prestigious WorkTech event in Canary Wharf, London. The annual event provides a forum for key decision makers to join together and debate, discuss and divulge the latest thinking on the future of work and the workplace.

Siemon promoted its innovative ConvergeIT cabling solutions for Intelligent Buildings at the event. The system provides a unified intelligent building (IB) cabling solution that combines Siemon's proven quality with advanced copper and fiber cabling technology to create a structured cabling system that converges critical data, voice,

video and low-voltage building systems onto a single unified physical infrastructure, providing significant cost savings and sustainability over the life of the facility.

ISG's Technology Solutions team also supported the event and provided insight into their innovative approach to technology delivery in the workplace environment; focused on how better integrating and connecting key decision makers in the development of a project, allows technology and existing services to harmonize together into the fabric of the place rather than the traditional approach of viewing technology as an add-on.



EXPLORE



Siemon Road Show on Data Center and Intelligent Building Solutions – In Association with Cisco

Siemon India organized two Roadshow's on data center and intelligent building solutions in association with Cisco. The location of roadshow was at Sheraton Grand, Bangalore - India and Shangri-La EROS, New Delhi - India. The roadshow drew a large participation from end customers, project management companies, consultants, architects, builders and value added resellers with over 170 attendees.

The opening presentation was made by Mr. Prem Rodrigues, Director for Sales and Marketing from Siemon handling Middle East, India and SAARC regions. He gave an overview of the company and talked about its history, technology leadership, various products and solutions. This was followed by a presentation from Mr. Lee Funnell who is the Technical manager for Europe, Middle

East and Africa for Siemon. He showcased what an intelligent building approach is and how it is achieved through convergence of all the devices onto a single IP platform, what are the POE trends, new design considerations and how to overcome the challenge of Siloed networks. Mr. Narendra Vasandani, Technical Manager - Middle East and India for Siemon was the next presenter who talked about how to future proof an investment in Intelligent building data centers. He showcased the Siemon Z-MAX shielded cabling system, the highest performing Category 6A copper cable system in the market, benefits of shielded cabling, next generation fiber cables and the Siemon VersaPOD® data center cabinet for greater space utilization. He also provided the latest technology updates on Category 8 and 40GBaseT cabling initiatives.

Public Cloud vs. Private



Public Cloud

- ▶ A data center where everything is virtualized, using someone else's resources
- ▶ Multiple clients typically a pay as you go model

Private Cloud

- ▶ One client where resources are not shared
- ▶ Examples are R&D, Analytics, ERP



Smart Planning and Design: For the evolving data center landscape

Presented by Siemon's McKenzie Hughes, RCDD, Cloud/Colo Market Manager, this webinar covers the latest trends in data center design and deployment. It takes a look at the recent shift to hybrid IT/cloud and colocation and provides critical tips for evaluating cloud/colocation facilities. Also covered is the value of modular designs using preconfigured cabinets and why

it makes more sense for data centers to grow vertically instead of horizontally. The webinar provides critical insight on the use of data Center pods and how to maximize efficiency, performance and scalability as data centers strive to migrate to speeds beyond 40 Gig while enabling greater flexibility and cost savings.

EXPLORE



Cisco Digital Ceiling: Digital Transformation and Creating New Workplace Experiences

Cisco Digital Ceiling: Digital Transformation and Creating New Workplace Experiences

Siemon's Global Business Development Manager for Intelligent Buildings and Strategic Alliances, Bob Allan, participated on a Webinar titled 'Cisco Digital Ceiling: Digital Transformation and Creating New Workplace Experiences' alongside experts

from both Cisco and Philips Intelligent Lighting to explore the latest developments and updates related to Cisco's intelligent building approach, part of Cisco's wider Digital Building program.

[EXPLORE DIGITAL BUILDINGS](#)

WEBINAR ARCHIVE:

**VIEW MORE OF OUR DATA CENTER AND
NETWORK INFRASTRUCTURE WEBINAR
SERIES BY CLICKING HERE**

[VIEW MORE](#)

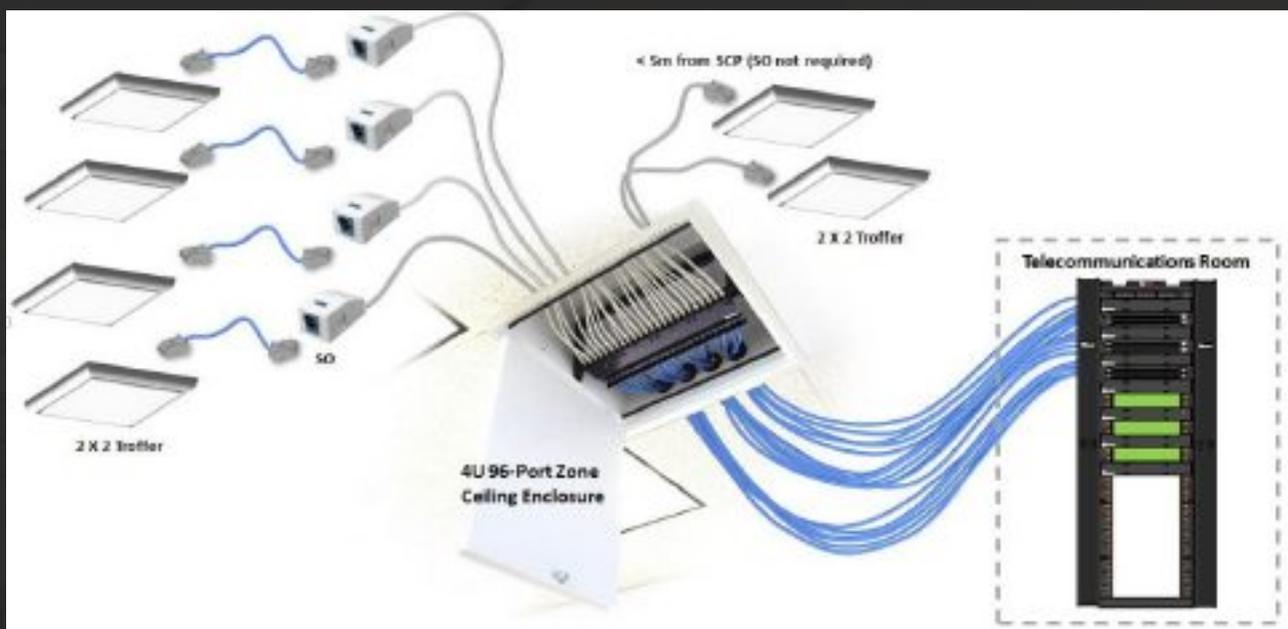
Siemon publishes planning guide for Power over Ethernet lighting applications

Siemon, a leading global network infrastructure specialist, has published a new paper entitled 'Zone Cabling and Coverage Area Planning Guide: 60W PoE Lighting Applications' to provide guidance to infrastructure designers on the selection, design, and deployment of a structured cabling system optimized to support a wide range of Power over Ethernet (PoE) lighting applications. The new guide highlights installation recommendations, integration with IoT applications, zone cabling for PoE lighting including coverage areas and location of zone enclosures, and more.

PoE lighting systems are becoming increasingly popular due to the ease and benefits of using Ethernet communication for control and balanced twisted pair cabling to deliver reliable and cost-effective dc power. PoE lighting solutions already illuminate over one billion square feet of commercial space globally, and it is estimated the number of smart lighting deployments will grow from 46 million units in 2015 to 2.54 billion in 2020. PoE lighting luminaires typically use light emitting diode (LED) technology, which offers the benefits of lower power consumption and less heat generation than other luminaire design alternatives, while lowering capital investment, improving safety and comfort, and integrating with building automation systems.

“PoE lighting systems rely on a well-designed infrastructure of high performance balanced twisted-pair cabling, network electronics, and software connecting and communicating with Internet Protocol (IP) addressable luminaires, dimmers, sensors, and controllers to deliver maximum performance, comfort, and energy savings benefits,”

Valerie Maguire, Global Sales Engineer,
Siemon.



“Zone cabling is a standards-based design approach that is highly suited to support arrangements of these PoE lighting devices logically distributed throughout a ceiling space. There are a large number of variables that must be considered prior to identifying the lighting solution that is best suited for a particular building environment,

and it is crucial for infrastructure designers to have a complete understanding of these considerations before endeavoring to design and install the low voltage cabling system for PoE lighting deployments. It is for this reason that Siemon also recommends using a qualified Digital Lighting Partner (DLP) for low voltage lighting installations.”

DOWNLOAD THE WHITE PAPER

**READ THE FULL PAPER ON POWER OVER
ETHERNET LIGHTING APPLICATIONS**

EXPLORE

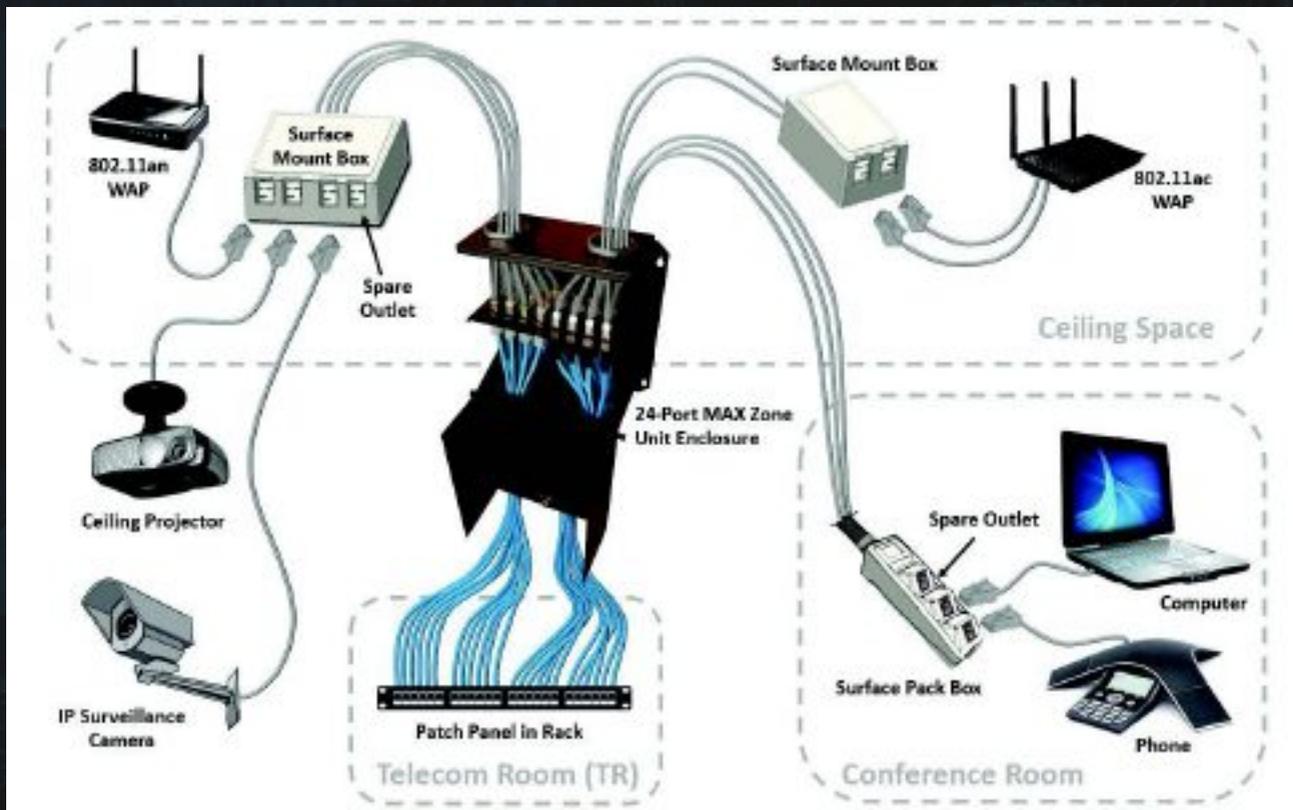
Zone Cabling and Coverage Area Planning Guide

Zone cabling supports convergence of data and voice networks, wireless (Wi-Fi) device uplink connections, and a wide range of sensors, control panels, and detectors for lighting, security, and other building communications.

Zone Cabling Design:

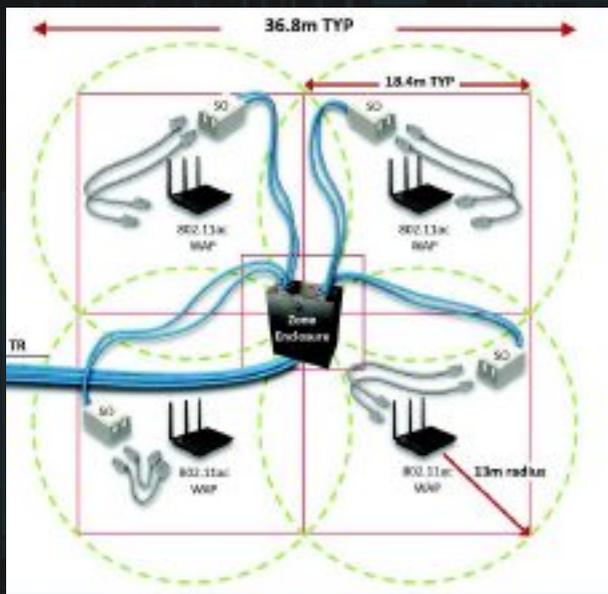
A zone cabling design consists of horizontal cables run from the floor distributor in the telecommunications room (TR) to an intermediate connection point that is typically housed in a zone enclosure located in the ceiling space, on the wall, or below an access floor. The name of this intermediate connection point depends on the types of end-point device connections it serves, and on the applicable regional Structured

Cabling Standard. For convenience, this intermediate connection location will be referred to as the service concentration point (SCP). The outlet supporting a building device connection will be referred to as the service outlet (SO). Connections at the SCP are typically facilitated by connecting hardware supporting 2 to 96 outlets. Cables are then connected from outlets in the SCP to building devices, SO's, or telecommunications outlets (TOs).



What is a Coverage Area?

The major benefit of zone cabling is its ability to provide an easily accessible intermediate connection point. Being able to locate zone enclosures in an access floor, ceiling, on the wall, or within modular furniture enables convenient access to these connections. The deployment of strategically placed zone enclosures throughout a building space creates a flexible, “futureproof” infrastructure for data, voice, building devices, and wireless access points. According to ISO/IEC and TIA Standards, the area served by a device is called its coverage area. For the purpose of this Planning Guide, the term coverage area is extended to describe a space that may serve multiple devices and their respective coverage areas.



Siemon recommends that device coverage areas be planned to have a radii no greater than 13m to ensure support of fifth generation (IEEE 802.11ac) and future Wi-Fi. While other devices may have wider coverage areas, the area served by a wireless access point (WAP) is generally the smallest of all building device applications. This practical guidance ensures generic support of all current and future building device and Wi-Fi applications with a single zone and coverage area design.

The image shows an example of a ceiling mounted zone enclosure functioning as the SCP. It is centrally positioned within four coverage areas, providing connections to four 2-port SOs serving IEEE 802.11ac WAPs, each having a coverage area radius of 13m. Note that the 26m diameter of each WAP coverage area is larger than the square grid coverage area pattern to ensure no gaps where the coverage areas intersect.

Siemon recommends that the number of connections in the zone enclosure should not exceed 96. This recommendation harmonizes with IEEE 802.3 Type 2 and Type 3 Power over Ethernet (PoE) maximum bundle size limitations and is aligned with guidance provided in ANSI/TIA-862-B, both of which optimize zone enclosure access by eliminating over congestion in the SCP.

DOWNLOAD THE WHITE PAPER

READ THE FULL PAPER ON ZONE CABLING AND CONVERGE AREA PLANNING

EXPLORE





SIEMON™



ADVANCED DATA Center SOLUTIONS



ADVANCED DATA CENTER SOLUTIONS

Siemon has focused its cabling expertise into a global data center service team, capable of guiding you through the process of selecting, designing and deploying the business-critical cabling infrastructure upon which your entire data center will rely.

Siemon has condensed this expertise and resource into a comprehensive e-guide, giving you an insight into the latest solutions, resources and tools from its end-to-end data center ecosystem.

Download the interactive guide here >>



Advanced Data Center Solutions

WWW.SIEMON.COM/WHEELHOUSE

CONNECTING THE WORLD TO A HIGHER STANDARD