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ICT INDUSTRY NEWS

LEARN THE LATEST IN BICSI INDIA: -

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BICSI India organized its Technology Seminar at Chennai on 10th July 2026. The primary purpose of this seminar was to reach out to the ICT industry at Chennai and to discuss, update and deliberate on latest technologies, trends and products. BICSI India Technology Seminar at Chennai was well attended by Consultants, System Integrators, OEMs, End Customers, IT heads/ Managers and Senior Faculty from the Academia / Educational Institutes and received good acclaim from all the participants.

Product display arena



A concurrent product display was also part of the seminar which had organizations such as Senko Advanced Components & Modular Rack Systems providing a hands-on experience on their ICT offerings.

The seminar featured technical presentations by:



Mr. Hari Prasad, Corporate Member - BICSI India, delivered the welcome address and shared perspectives on BICSI India, its growth and key initiatives.



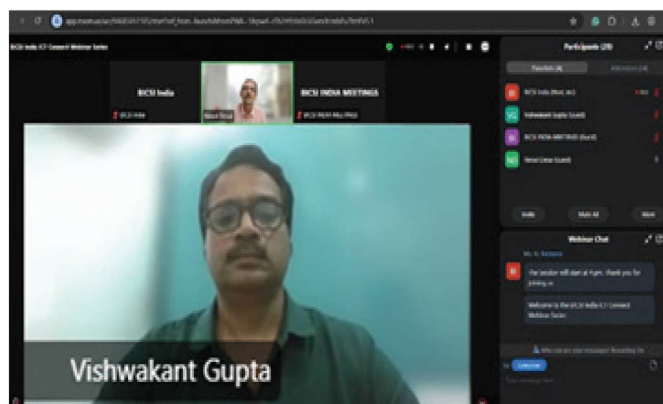
Mr. Hunter Kanai, Deputy General Manager SENKO Advanced Components on From Innovation to Deployment -How Next-Gen Optical Connectivity Solve Real Deployment Challenges for AI Data Centre-



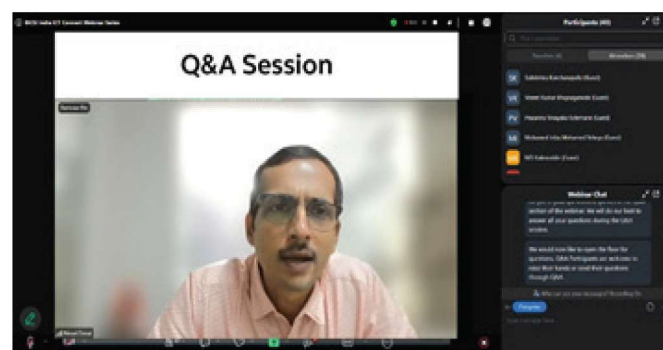
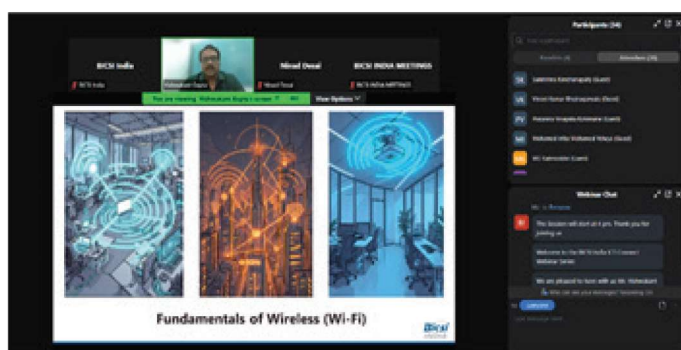
Mr. Vinyas Budanuru, Manager-Project Sales, NetRack Enclosures Private Ltd on How to Select the Right Server Rack for Modern Data Centers



Mr. Anandu Gopan, Application Specialist, Cape Electric Pvt Ltd on Electromagnetic Interference in ICT installation and the mitigation measures



BICSI India conducted its first-ever webinar titled Enterprise Wireless Training on August 21, 2026, presented by Mr. Vishwakant Gupta, Regional Technical Manager - Enterprise Solution Consulting at TP-Link India. The session marked a significant milestone for BICSI India, bringing valuable technical insights to its members and the ICT community. The webinar commenced with a warm welcome address by Leadership Committee Member Mr. Ninad Desai, RCDD, NTS, OSP, TECH, CT, setting an engaging tone for the event.



The session was highly interactive, featuring a dynamic presentation followed by a lively Q&A segment where participants actively engaged with the speaker, addressing various queries and deepening their understanding. This initiative was very well received by the BICSI India members and the broader ICT community, reflecting the importance and relevance of enterprise wireless solutions in today's technology landscape. Overall, the webinar was a great success and laid a solid foundation for future educational events by BICSI India.

Extended Reach Copper Cabling Systems

TIA standards mandate a maximum of 90m permanent link length for all recognized categories of cabling systems, including Cat6A. This 90m distance allows the standards to define predictable worst-case transmission performance, while ensuring backward compatibility with successive generations of Ethernet interfaces.

Tweaking the construction of the components of the copper cabling system may permit going a little over the 90m limits. However, such transgressions may foul with certain performance parameters defined by the standards.

- **Insertion Loss** of a cabling link depends primarily on the length of the installed link as well as on the gauge of the copper used in the cable. Also, higher frequencies encounter higher losses. The combination of link length, gauge of copper, and signal frequencies have a bearing on the strength of the signal (and therefore the ACR) received at the other end of the link, and be detected error-free.

- **Delay Skew** is the differential propagation delay experienced by signals received on the 4-pairs of the cable in a multi-pair transmission interface such as 1 and 10 Gigabit Ethernet. Increase in length increases the skew as different pairs often have different twist ratios.

- **Power Over Ethernet (PoE)** is being increasingly deployed to power end-devices remotely in a network. Such delivered power levels are increasing with later versions of the IEEE standards. Exceeding the link lengths (and therefore the supported distance between power sourcing equipment (PSE) and a powered device (PD)) can increase power losses leading to insufficient power levels at the remote device and to sub-optimal performance of the device.

As more enterprise systems converge on to IEEE BASE-T technologies, there often arise cases where an odd network endpoint needs to be supported beyond the mandated 90m. This issue commonly arises in large building environments and campuses. Wireless access points (WAPs), security cameras, IOT devices such as sensors, and actuators are examples of devices that may need cabling lengths beyond 90m. If such end devices are located outside of buildings, the incidence of lightning strikes and susceptibility to large, induced currents arise. Such disturbances can travel either way on the transmission path – towards the end-devices within the building, or towards the end-devices outside the building. Such disturbances can damage the equipment or can cause hazards for people coming in touch with the equipment. To take precautions against such risks (and maybe to comply with requirements of local authorities having jurisdiction) Surge Protection Devices may need to be added to the links. Such Surge Protection Devices add to insertion losses of the link.

TIA standards have initiated a project to develop formal guidelines on the extended reach capabilities of copper cabling systems. The TIA TR-42.7 Copper Cabling Systems Subcommittee is currently developing **TSB-5073**, tentatively entitled, “Guidelines for Supporting Extended Distance over 4-pair Balanced Twisted-Pair Cabling.” This guideline intends to be informative and does not suggest any mandatory or normative requirements.

In this guideline, TIA is adopting two distinct approaches for assessing performance of extended reach cabling systems:

- **The Engineered Channel approach**, which is a comprehensive, component-based modelling method that assesses performance across the entire frequency range to ensure robust application support. This approach tries to maximize the likelihood of consistent and reliable channel performance across the widest range of installed conditions. Designers intending to specify extended reach cabling systems should check with OEM suppliers for warranties and performance data supporting the extended distance capabilities of cabling systems that are grounded in rigorous testing, rather than relying on isolated component specifications.

- **The Equipment Reliant approach** supports practical assessment, utilizing tools like field testers, bit error rate (BER) testing, or switch link status to make immediate “go/no go” determinations for a particular device operating within a specific environment

TSB-5073 intends to provide guidance on the ability of twisted-pair copper cabling to support Ethernet speeds from 10 Mb/s to 10 Gb/s and Power over Ethernet (PoE) for extended distances. However, specifiers of extended reach cabling systems need to bear in mind that such extended reach cabling guidelines are application-specific, and the support of future equipment upgrades is not assured. Changes in environmental conditions, such as operating temperature, can impact application operation in extended reach deployments. While extended-reach cabling is an option for overcoming specific, limited-use distance challenges, deployment of TIA-568 standards-compliant 90-meter permanent link topologies remain the best practice for a truly flexible and scalable infrastructure

This article is contributed by Mr. Sitaramaiah Alamuri, Member - Leadership Committee, BICSI India and Practice Director - Network Infra Design & Engineering Services - Data Centres and Smart Campuses, Optimetrix Integration & Solutions Pvt Ltd.

Optical Fiber OSP Infrastructure

In today's connected world, outdoor connectivity is as critical as connectivity inside buildings. Whether across enterprises, educational institutions, healthcare facilities, hospitality environments, manufacturing sites, or large campuses such as airports, reliable outdoor connectivity has become a foundational requirement. Connectivity not only enables an always on digital environment but also plays a vital role in supporting and running business critical applications across industry verticals.

As applications increasingly extend beyond building boundaries—to outdoor devices, distributed edge systems, and campus wide platforms— Outside Plant (OSP) infrastructure has become a fundamental extension of the physical layer. OSP cabling refers to telecom or data cabling that is installed outside buildings, where it is exposed to environmental and mechanical stresses that do not exist indoors. OSP cabling can be rugged outdoor copper or fiber cabling systems, designed to interconnect buildings, equipment, or networks across outdoor environments reliably and safely. Some of the devices that connect with OSP cabling system include Wi Fi outdoor Access Points, IP surveillance cameras, access control systems, and IoT devices. In addition to OSP cabling, OSP infrastructure also includes OSP pathways and spaces. OSP pathways support aerial, underground or direct buried cabling systems. Aerial pathways and space consist of poles, support strands (messengers), anchors and guys, while underground pathways and spaces consist of conduits, manholes, handholes, utility tunnels, pedestals and cabinets, and vaults. Direct buried pathways and spaces consist of trenches for direct-buried cables, pedestals and cabinets. Grounding, Bonding and protection of the cable plant helps minimize voltages and currents, which are typically external to the OSP cabling, that may be hazardous to people, property and to telecommunication equipment, as well as improve the signal integrity of the transmission paths and promote the reliable operation of the connected equipment at the ends.

OSP cabling is designed and qualified differently from Inside Plant (ISP) cabling to withstand harsh outdoor conditions, including moisture protection (gel-filled or dry water-blocking cable designs), UV radiation, wide operating temperatures, protection against rodents, and mechanical (tensile and crush resistance) stress.

The following are some Standards and Design Reference Manuals that can help OSP designers to further the practice of design, specification, testing and documentation of OSP infrastructure.

1. ANSI / TIA 568
2. ANSI / TIA 569
3. ANSI / TIA 606
4. ANSI / TIA 607
5. ANSI/TIA 758 B. Primary OSP Cabling Standards (Customer Owned Infrastructure)
6. BICSI Outside Plant Design Reference Manual (OSPDRM)
7. BICSI Telecommunications Distribution Methods Manual (TDMM)

This article is contributed by [Mr.Ashok Srinivasan, RCDD, Technical Director, CommScope India.](#)

BICSI India welcomes new members to the Leadership Committee



Mr. Mohammad Shahid Khan



Mr. Rajiv Ranjan

BICSI India is proud to welcome Mr. Mohammad Shahid Khan and Mr. Rajiv Ranjan as esteemed new members of the Leadership Committee, bringing the committee to a total of **16 members**.

Their addition further strengthens BICSI India's leadership and reinforces our commitment to excellence, innovation, collaboration, and professional growth within the ICT community. With a diverse and growing team of industry professionals, the Leadership Committee continues to play a vital role in driving meaningful initiatives, fostering knowledge sharing, and supporting the advancement of the ICT infrastructure and technology ecosystem in India.

We look forward to the valuable expertise, experience, and perspectives that Mr. Mohammad Shahid Khan and Mr. Rajiv Ranjan will bring to the committee as we work together to shape a stronger, more connected, innovative, and future-ready ICT community.

UPCOMING BICSI INDIA ICT FORUMS & TECHNOLOGY SEMINARS 2026**BICSI INDIA TECHNOLOGY SEMINAR
MUMBAI**

October 16, 2026

**BICSI INDIA TECHNOLOGY SEMINAR
NEW DELHI**

November 20, 2026

**BICSI India Annual Conference
& Exhibition to be held on
April 9, 2027 in Mumbai**

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