INDIA ICT TODAY

NEWSLETTER FROM

BICSI INDIA

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ICT INDUSTRY NEWS

LEARN THE LATEST IN BICSI INDIA :

BICSI India Newsletter is published quarterly in April, July, October, and January amongst its Members, Credential Holders and ICT Community in India. BICSI India e-Newsletter welcomes and encourages contributions and suggestions from its readers. However, all such material becomes the property of BICSI India which reserves the right to edit and alter such material for space or other considerations and to publish or otherwise use such material.

BICSI INDIA
ANNUAL CONFERENCE & EXHIBITION 2025
APRIL 11, 2025 – MUMBAI, INDIA

The BICSI India annual conference and EXPO 2025 showcased the latest digital Transformation innovation and resilient ICT capabilities. The theme for the conference was "Building Next Gen DATA Centers and Smart ICT Infrastructure".

MR David M Richards, RCDD, NTS, OSP, TECH, CT, Board President, BICSI addressing the gathering conveying the potential of AI and its impact, current advancements in ICT along with insights about the latest standards and Practice.

BICSI India Cabling Skill Challenge Grand Finale was concurrently held during the conference,also an **ICT IQ Quiz** on the **latest ICT Terminologies & industry best practices** was conducted and evoked an enthusiastic response from the audience along with **felicitation to Award winners.**

BICSI India organized its 1st ever Beacon Awards for Excellence 2025 in Mumbai

Mr. Ketan Kothari, Chairman of the Leadership Committee, BICSI India welcomed the gathering with pride and shared the insights of prestigious **BICSI INDIA BEACON** Awards and Categories.

BICSI India ICT Infrastructure Design Award

BICSI India ICT Installation Award

M/s Relight ICT Consulting LLP won the Award in ICT Infrastructure Design and M/s Apee Eskay Enterprises Pvt Ltd won the Award in ICT Installation.

BICSI India Chairman's Golden Eagle Award

Mr Ketan Kothari along with **Mr David Richards** doing the Honors for **Chairman's Golden Eagle Awardees Mr. KR Naik,** Founder & Chairman of **Digisol Systems Ltd** and **Mr. K. K. Shetty,** Board Member, **CISFIBER Infra Solution Pvt Ltd**

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BICSI India: Enabling the Future-Ready Professional

BICSI India remains committed to equipping professionals with cutting-edge knowledge and credentials to thrive in a rapidly evolving digital world. Through updated certifications, educational programs, and thought leadership platforms, we aim to support a dynamic ICT ecosystem. Together, let's build smarter, more secure, and sustainable networks for tomorrow.

Catch up on the Newsletter through BICSI India ICT 2025

Welcome to the 1st edition of our ICT e-Newsletter, where we bring you the latest trends, innovations, and insights in the world of technology. Stay ahead in the fast-evolving digital landscape with our expert analysis, industry updates, and best practices in ICT

Structured Cabling Systems for AI data center networks

HPC (high-performance computing), have to date fueled digital transformations across organizations of all sizes, boosting productivity, efficiency, and problem-solving prowess. Now, the emergence of highly innovative machine generative AI (GenAI) models, powered by deep learning and neural networks, is further disrupting the game. By generating original content and tackling intricate challenges, GenAI is poised to revolutionize not just how organizations operate, but the very fabric of innovation itself.

Increased use of these data- and compute-intensive ML and GenAI applications is placing unprecedented demands on data center infrastructure, requiring reliable high-bandwidth, low-latency data transmission, significantly higher cabling and rack power densities, and advanced cooling methods.

Accelerated GenAI and ML models consist of training (learning new capabilities) and inference (applying the capabilities to new data). These deep-learning and neural networks mimic the human brain's architecture and function to learn and generate new, original content based on analyzing patterns, nuances, and characteristics across massive, complex data sets. To pull and process such volumes of data, general purpose CPUs, which carry out operations in serial, cannot scale. Scores of Graphical Processing Units (GPUs) that use accelerated parallel processing and high-throughput computations simultaneously are usually deployed in new-generation data centers. Such interconnected GPUs require

Very High Bandwidth – 100G, 200G, 400G, and even 800G speeds at the server level, with switch-to-switch links rapidly migrating to 800G and 1.6T speeds. Extremely Low Latency – Real-time (< 20 milliseconds) east-west data transmission between nodes.

Dramatically Increased Power Consumption – GPU-based servers require up to 10x more power, resulting in rack power densities of 30-100kW or more. Increased power consumption required advanced Cooling –technologies such as direct-to-chip liquid cooling and liquid immersion cooling are being deployed

InfiniBand and Ethernet Protocols are deployed to support such high-bandwidth and low latency communication requirements. High-Density, High-performance cabling is required to support high speed connections GPU nodes and for storage, management, and switching.

Various optical fiber interface specifications are prevalent in industry. Very Short Reach (VR) and Short Reach (SR) are typical specifications for multimode Fibres and support up to 50, and 150m respectively. Data Centre Reach (DR), Fiber Reach (FR), Long Reach (LR) and Extended Reach (ER) ate typical Single Mode interfaces and support up to 500m, 2000m, 10,000m and 40,000m respectively, though typical data centers do not see deployment of LR and ER interfaces, except in Data Centre Interconnects. Ethernet deployments, multimode (SR and VR) and short-reach single-mode applications (DR and FR) have stringent insertion loss requirements, with a maximum channel loss of 1.9 dB for multimode, 3 dB for DR single-mode, and 4 dB for FR single-mode.

For structured cabling within AI networks, Ultra-Low Loss (ULL) MPO/MTP connectivity ensures maximum channel distances while ensuring margin to accommodate installation variables and deliver the flexibility to support convenient cross-connects that help improve manageability, scalability, and speed of deploy ment While long-distance links in HPC clusters benefit from structured cabling, short, low-latency connec tions for GPUs often rely on point-to-point solutions like DACs. But AI clusters with spread-out GPUs and racks push lengths beyond DAC limits. Multimode fiber cables are typically used up to 50m for leaf switch to node connections, AOCs commonly up to 30m within a row and single-mode cables up to 500m between leaf and spine switches but managing hundreds or thousands in large clusters becomes a hassle. As Network speeds increase DACs may be distance limited, while AOC must overcome the high cost and power consumption issues over short and medium distances. A new breed of solution in the form of Active Copper Cables (ACC) and Active Electrical Cables (AEC) is emerging to address this niche up to 5m in length.

In addition to Insertion Loss requirements, high-speed applications like 400G and above are more suscep tible to reflectance. Poor reflectance performance can adversely impact channel insertion loss and trans mission performance. As a result, it is important to specify the use of angled physical contact (APC) for multimode, in addition to the traditional single-mode MTP/MPO connectivity for high-speed AI links. Unlike ultra-physical contact (UPC) connectors that feature a rounded fiber end face, APC connectors are polished at an 8-degree angle to reduce the amount of reflected signal. Multimode MTP/MPO/UPC connectors typically have a reflectance value of -20 dB, while multimode MTP/MPO/ APC connectors have an improved reflectance value of -35 dB.

Selecting and specifying the right structured cabling Systems for AI data centers help ensure high-speed, low-latency networks that further ensure performance, flexibility in managing high-density connections, protect key equipment, and improve equipment access, airflow and space by reducing congestion

The above article is contributed by Mr Prem Rodriques, Vice President, IMEA from Siemon.

BICSI's Updated Credential Holder Recertification Policy: Know What's Ahead

BICSI – Advancing Certification Standards to Reflect Evolving ICT Excellence

To ensure our certification standards correspond appropriately with our developing ICT industry, BICSI will be updating its CEC Program Policy for credential holders. The forthcoming newly named Credential Holder Recertification Policy introduces greater flexibility, recognizes additional professional contributions, and offers new ways to earn continuing education credits (CECs).

Earning categories expand to incorporate more continuing education opportunities, BICSI events, ICT-related academic courses, and required professional ethics courses Professional contributions now include - BICSI speaking, BICSI volunteering, and BICSI membership credits.

Through these refinements – greater flexibility, enhanced recognition, and clarity and transparency – BICSI is engaged in the success and - professional growth of every credential holder. Stay tuned to BICSI for additional information, via social media or join our email list.

New Training Program: - ICT SCS Installer Training is now BICSI-approved and available

BICSI has recognized this course/event for 12 BICSI CECs, which can be verified on the BICSI website.

The ICT SCS Installer training program curriculum provides the desired installation knowledge and skills to install information and communications technology (ICT) structured cabling systems (SCS). The training provides core knowledge and requisite skills in the proper and most current methods of installing ICT-related cabling within the confines of a commercial building structure. Skill sets include but are not limited - to pulling cable, terminating, and testing optical fiber, copper and coaxial cable and its allied link components to help enable installers to perform duties in compliance with industry best practices, BICSI methodologies, standards, and codes. The Training program will be conducted in person, and the training modules will be delivered in a classroom learning environment at the BICSI-authorized training facility (ATF) in Mumbai currently.

The training provider will assess practical work assignments to understand the knowledge and skills delivered collectively at the end of the course. Participants must demonstrate their knowledge, and skill sets and pass individual task assessments with a minimum aggregate of 60%, while the total pass aggregate needs to be 70% or more. Participants who satisfy both criteria will qualify to receive the ICT SCS Installer certification. All other participants will receive a certificate of attendance if they fail to complete the above requirements but attend the class.

For more details and further information, please get in touch with the Training provider,
BICSI ATF in India M/s Optinext Technologies Pvt Ltd., Mumbai
E-Mail ID ninad@optinextindia.com | Contact number +91 98211 34063

UPCOMING BICSI ICT FORUMS, SEMINARS AND CONFERENCES IN INDIA

BICSI INDIA TECHNOLOGY SEMINAR
CHENNAI
July 11, 2025

BICSI INDIA TECHNOLOGY SEMINAR
BENGALURU
September 19, 2025

BICSI INDIA TECHNOLOGY SEMINAR
NEW DELHI
November 21, 2025

BICSI India Annual Conference to be held on April 10th, 2026 in Bengaluru

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