



The Siemens PLM Software Centre 10G Data Centre in Pune: Future Ready with AMP NETCONNECT Cabling Solutions

Future Ready: Siemens PLM Software 10G Data Centre (India)

Siemens Product Lifecycle Management (PLM) Software Centre, a leading global provider of software and services, has operated in India for nearly 20 years and has more than 2,200 customers throughout the country. Its customers include leading enterprises like automotive, transportation, machinery, aerospace and defense. The division needed to expand its operations by opening a new and larger development centre for many of its software product developments, modules and service engagements programmes. This expansion meant extension of office space and development of a significantly future proof, high speed network that would cater to tomorrow's

demands today. Infrastructure cabling plays a vital role in design, implementation and operation of such networks as they need to support bandwidth hungry, highly available and scalable network devices. Siemens PLM Software Centre was looking for a brand that would support their data centre infrastructure in terms of high bandwidth, fast installation and easy MACs.

While evaluating brands that would deliver these critical essentials to the network, Siemens PLM Software Centre was suitably impressed with Shielded 10G solution offered by Tyco Electronics. This standards-based 10G

STP provides a proven, available and cost-effective solution that supports the higher frequencies produced by the active electronics for 10G that generate considerable noise. Alien Crosstalk (ANEXT) caused by these high frequency signals coupled with frequency from adjacent copper cables and connecting hardware are the limiting noise source for running 10G over copper. It was also important to consider the Shannon Capacity, measured in gigabits per second, that defines the maximum amount of data that can be transmitted in the presence of noise as determined by the signal-to-noise ratio. The foil shielding of the AMP Netconnect STP system virtually eliminates ANEXT, resulting in a higher signal-to-noise ratio and a much larger Shannon Capacity. It also makes it resistant to EMI and RFI. Apart from providing immunity to ANEXT, the system presents an ideal solution for many applications.

Among the other operational efficiencies Siemens PLM Software Centre required speed and quality of installation, port density, easy MACs, superior cable management, optimum floor space utilization. Here, too, the MPO Solution for data centre



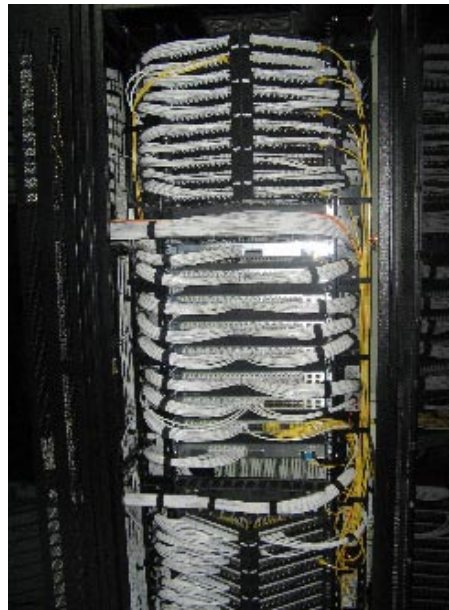
Kapil Deshpande, Communication Infrastructure Architect, Siemens PLM Software Centre, India

XG Systems @ Siemens PLMS Centre

applications from Tyco Electronics lived up to the customer's expectations. These easy to handle and install factory pre-terminated and tested products offer high density while bringing speed, reliability and scalability to data centre installation. Because of the high density they offer more performance in less cabinet and trunking space. Being modular in design, these plug & go systems simplify data network changes and growth. Factory pre-termination and testing makes this system more high-precision and reliable with outstanding quality control. With reduction in primary cost for installation, termination and testing and secondary cost for trunking, cabinet and consumables and superior system features, the product was exactly what Siemens PLM Software Centre needed. The LAN is designed on Distributed Network Architecture (DNA) that facilitates easy MACs. Fiber backbone redundancy is maintained to each hub room from the data centre and between the hub rooms using MPO fiber optic cabling solution. In data centre Centralized Network Architecture (CNA) topology is used to address the increasing operating costs of network administration and to

easily and cost-effectively migrate from the low-speed LANs of today to the high-speed requirements of tomorrow, in future. CNA provides centralized control and monitoring of the network; trouble shooting is faster as opposed to DNA.

The solutions used in the facility accrue multiple benefits for the customer in the short and long run: the 10G solution is ready to take on the constant growth of processor power inside workstations and the server farms as well as the demand for faster communication throughout the premises. The network is ready for future high bandwidth hungry applications at today's cost with flexibility, scalability and reliability that is warranted for the next 25 years.



Siemens PLM Software Centre relies on Tyco Electronics' AMP NETCONNECT XG Systems for their 10 Gb/s data centre

“Thanks to AMP NETCONNECT our plant in Pune is the first 10G data centre of the city with state-of-the-art technology and innovative and future proof solutions. The network is ready for future high bandwidth hungry applications with flexibility, scalability and reliability that is warranted for 25 years.”

Kapil Deshpande, Communication Infrastructure Architect APAC Region, Siemens PLM Centre

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