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SYSTIMAX® Solutions Win Connectivity Contest at Nanjing Olympic Center

SYSTIMAX® GigaSPEED® XL and OptiSPEED® cabling chosen for new 90-Hectare Sports Complex

With buildings covering 400,000 m², the Nanjing Olympic Center in China is one of Asia's biggest new sporting facilities. It includes a stadium, gymnasium, swimming pool and tennis center built on a site covering nearly 90 hectares, and it is currently the largest government-funded public project in China's Jiangsu province. The Center has already hosted the 10th All China Games and will be the main training facility for the 2008 Olympics in Beijing.

Like any major sporting complex, the Center relies on high-speed communications to operate efficiently. Management, administration and broadcasting of events all depend on high performance network infrastructure. The complex scheduling of major competitions has to be timed within seconds and media companies must have information and results immediately.

To provide cabling that is the foundation for its network, the Center's Engineering Headquarters assessed a range of solutions. The winning proposal came from SYSTIMAX BusinessPartner China Sports & Tongfang Co., Ltd.(CSTF), a joint venture between Tsinghua Tongfang, China Sports Industry and IBM. This proposal met all the performance requirements and promised the high level of reliability that was a priority for the Nanjing Center.



The Engineering Headquarters were also impressed by results achieved with the SYSTIMAX product portfolio at the Athens Olympic Games and in other major installations worldwide. This track record, combined with industry-leading 20-year guarantees and application assurances, gave engineers confidence that they were choosing the right solution for the job.

"At events with many hundreds of athletes, thousands of spectators and millions of TV viewers, there can be no breakdown in communication - so we had to have the best available cabling infrastructure," said Mr. Cai Jian Qing, Chief Engineer, Nanjing Olympic Center Engineering Headquarters.

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Among the critical applications supported by the cabling infrastructure are Voice over IP, access control and building management systems. In addition, it supports all the center's office systems and connections to its media facilities.

To ensure the connectivity performance needed for fast system response, the infrastructure uses SYSTIMAX GigaSPEED XL copper cabling to connect its 8,000 information outlets.

These connections comfortably meet Category 6 specifications from end-to-end, supporting data speeds up to 1 Gb/s or more.

Horizontal GigaSPEED XL connections from outlets are linked to 40 satellite communications rooms across the site via cable runs mostly routed above ceilings.

Within the communications rooms, connections to central computer rooms and servers are routed via SYSTIMAX PATCHMAX® patching hardware. This modular system gives network managers flexibility to mix copper and fiber connections in the same racks and has cable management features that improve access to connector blocks.

Backbone connections that interlink the communications and computer rooms across the huge site use SYSTIMAX OptiSPEED multimode fiber cables. These are arranged to give two-level redundancy, ensuring that damage to a single cable cannot disconnect any section of the network.

Installation of the cabling was handled by a team of up to 20 people from CSTF who synchronized their work with construction of the Center over a period of 21 months. Design of the infrastructure was completed by Nanjing Architecture Research & Design Institute.

Commenting on the project, Charles Wong, Managing Director of Greater China and Korea, SYSTIMAX Solutions said: "Today's sport is about global competition and only the highest performance will deliver winning results. The same applies to cabling infrastructure for the world's major sporting venues - nothing but the best solutions are good enough to meet the demands of organizers and audiences. By choosing SYSTIMAX GigaSPEED XL and OptiSPEED cabling for its network infrastructure, the Nanjing Olympic Center will have connectivity to match the performance of the World's top athletes for many years to come."

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