CGA eSports Stadium Cyber Game Arena Case Study

The Largest eSports Arena in SE Asia

LINKSYS

FOR BUSINESS

The Situation

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Cyber Games Arena is the largest gaming organization in SE Asia with over 40 employees. The 25,000 sq. ft. facility in Hong Kong is the flagship location, not only housing a gaming center but also a store selling over 45 brands in gaming, accessories, computer DIY, Playstation, Nintendo and VR Gaming products.

They have four 10G broadband connections from the top two ISPs in Hong Kong serving their bandwidth requirements. They live-stream gaming events 1-2 times a month, where the WiFi client usage can surge up to 300-400 clients over 25 APs. Their customers (gamers) are the most demanding users who require the best in network speed and latency, whether it's WiFi or Wired networks. Low latency and reduced lag is essential to gamers, as connection loss, or even the slightest of delayed moves, can result in instant gaming death. The importance of a strong, reliable network connection and hardware supplier was critical to the success of the CGA eSports Stadium Cyber Games Arena.

Client Name ....CGA, Cyber Games Arena
Industry ....eSports, PC/Console/VR Gaming
Location ....38 Nelson Street Mong Kok Hong Kong

The Objective

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Provide a fast, reliable and low latency networking solution to support the bandwidth required for the largest eSports Arena in South East Asia. Through the installation of Cloud Managed WiFi Access Points and PoE+ Ethernet Switches, CGA is able to service up to 400 hardcore gamers that come to play video games and watch eSports events live, creating a seamless, lag-free connections for all users.
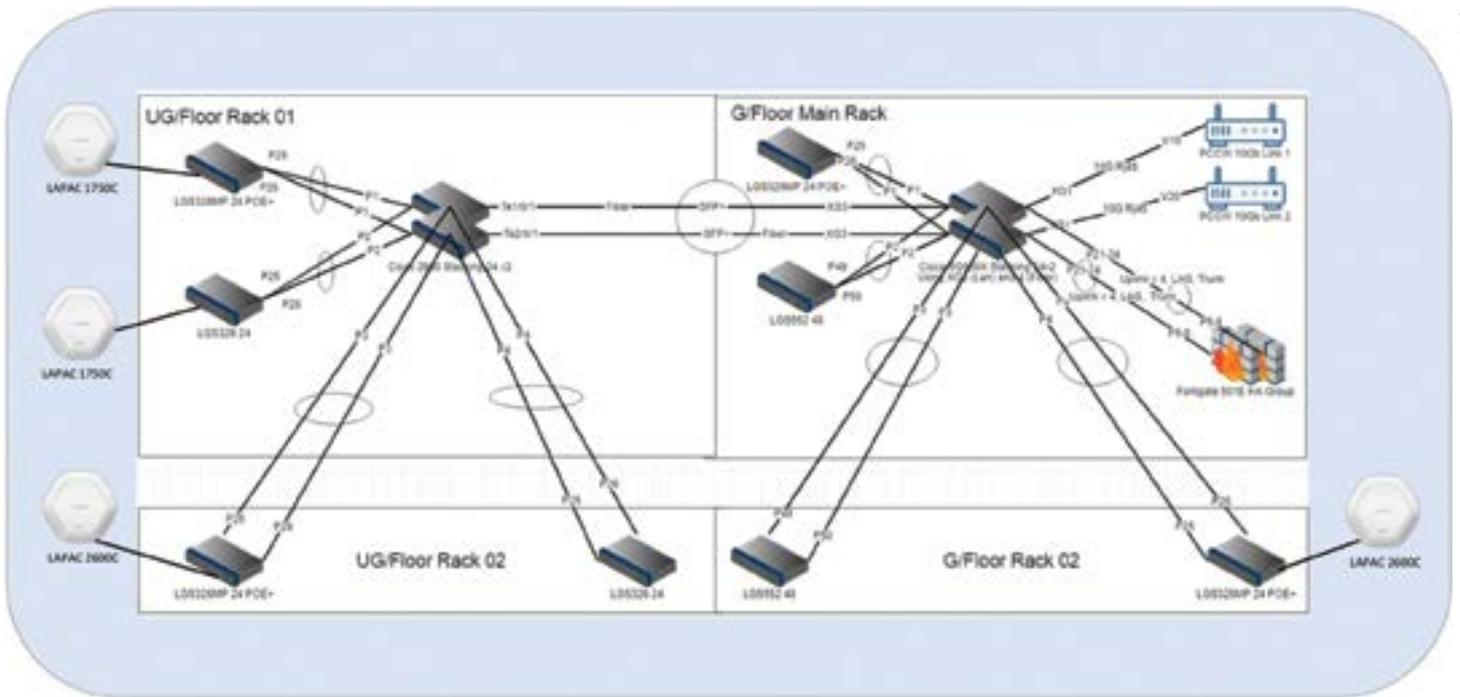
The Challenge

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Cyber Games Arena was looking for a dependable solution to fix issues on their current networking solution - low speed and unstable wireless connectivity. Up to 130 CGA gamers regularly compete in their gaming hall at any given time, the need for a network connection free from lag, with high-speed WiFi with low latency to the mobile devices, was becoming increasingly problematic.

Network Diagram

The Solution

Cyber Games Arena chose Linksys because it offered a true Cloud Managed WiFi solution that helps solve the challenges they were facing.

The installation included the **LAPAC2600C** for high client density areas and the **LAPAC1750C** everywhere else. The Linksys Cloud Manager provided easy remote access capability that allowed them to monitor their networks and change the configuration from anywhere, at any time. These access points also have Multi-user, multiple-input, multiple-output technology—better known as MU-MIMO – which allows a WiFi Access Point to communicate with multiple devices simultaneously and boosts network throughput to deliver robust wireless performance. This decreases the time each device has to wait for a signal and dramatically speeds up the network. By using Linksys Cloud Managed Access Points with Cloud Manager, CGA has a centralised management solution that was not only affordable, but that offered real time insights and notifications on network activity and health.

LAPAC1750C		Linksys Business AC1750 Dual-Band Cloud Wireless Access Point
LAPAC2600C		Linksys Business AC2600 Dual-Band Cloud Wireless Access Point
LGS326MP		Linksys Business PoE+ Smart 24-Port Gigabit Network Switch + 2x Gigabit SFP/RJ45 Combo Ports (PoE+ Budget 384W)
LGS326		Linksys Business Smart 24-Port Gigabit Network Switch + 2x Gigabit SFP/RJ45 Combo Ports
LGS552		Linksys Business 48-Port Gigabit Managed Switch + 2x Gigabit SFP/RJ45 Combo Ports + 2x 10G SFP+ Ports

Additionally, the Cyber Games Arena team installed eight Linksys switches; four **LGS326MP**, two **LGS326**, and two **LGS552** that helped expand their network to scale productivity and increase efficiency. Through the deployment of these high-powered network switches, CGA was enabled a dramatically streamlined installation process of peripheral devices, an ideal choice for their demanding LAN environments. Linksys network switches also allow for flexible network expansion options and advanced network security features – making this a great choice for the complex and demanding network environment. Linksys switches allow multiple high-bandwidth trunks to carry data smoothly between the switches, helping alleviate network congestion and improve availability. Additionally, equipped with numerous Quality of Service (QoS) features, Linksys switches intelligently manage traffic to help deliver the best user experience possible!

Conclusion

Overall, the Cyber Games Arena team were impressed with the products, execution and cost savings in choosing Linksys. The easy configuration and management of the network simplified the deployment process across their site. Through rigorous real world testing, the CGA team felt confident that the latest Linksys Cloud Managed access points provided the reliability and performance they needed to run their business. These industry leading products ensure that the gamers are getting the best user experience possible and will continue to return and compete at CGA.

In addition, the Cyber Games Arena team reiterated that the Linksys Cloud Manager User Interface (UI) is easy to manage and use, even without a certified network technician onsite. They were blown away that the access points include five years of free cloud management right out of the box and complimentary technical support, at no additional cost.

Linksys Business Technical Support.. 877-855-6899   (Mon – Fri, 5am – 11pm, PST)
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