Maple Bear Katong : Indoor Wireless & Surveillance

Background

Maple Bear Singapore is headed by Maple Bear Global Schools located in Vancouver, Canada. Awarded the "Best in Preschool Bilingual Literacy Award" in 2017, MapleBear Singapore offers a rigorous program utilising Canadian methodology and curriculum that has been developed ground up by Canadian teaching experts and refined for the children of Singapore by local childcare education expert, Mrs Patricia Koh (founder of Pat's Schoolhouse).

Located at a charming area rich in its cultural heritage, Maple Bear Katong boasts quality childcare and student care and is easily accessible by car and public transport. The school features a spacious and conducive environment that includes art room, water play, music room, theme/exploration room, reading room and indoor play area.

MapleBear Challenges

Maple Bear Katong wanted a reliable total networking solutions to ensure that they are able to view, monitor and record all activities carry out in every corner of the centre via its surveillance system to prevent and verify disputes. On top of that, Maple Bear Katong used Internet to access online materials for the children experience the world without stepping out of the classrooms. Hence, seamless Wi-Fi connectivity was also one of their criterias in searching for the one-stop provider.

Technical Challenges

D-Link was asked to propose a solution that would be able to link everything together - an excellent Wi-Fi connectivity and a surveillance system.

With solid experience in creating the perfect solutions for clients from different industries, its technical and sales team went onsite to understand the needs of Maple Bear Katong and identify the strategic locations for the mounting of access points and IP cameras.

D-Link Business Solutions

18 business-class surveillance cameras, 2 access points, 1 network video recorder as well as 1 PoE switch are all needed to create that total networking solutions Maple Bear Katon is looking for.
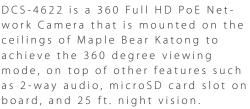
The DCS-4602EV is a 2 Megapixel Full HD Day & Night Dome IP Camera featuring a compact form factor, IP66 weatherproof, IK10 vandal-poof housing, integrated IR LEDs and 3D noise reduction.

It uses a high-sensitivity 1/3" megapixel progressive scan CMOS sensor with digital WDR image enhancement to deliver balanced video in varying lighting conditions. It also provides real-time video compression using the H.264 and MJPEG codecs, and supports three separate profiles for simultaneous-video streaming and recording.

Key Purchase Drives

■ Value
D-Link provided a complete wireless surveillance solution with its access points and surveillance cameras without the high investment of cabling for monitoring via PoE functionality.

■ Service + Support
D-Link's team went for site survey to determine the right surveillance model for the right place and the strategic location for access points among the many cubicle classrooms to ensure Wi-Fi was seamless.

■ Performance
Clear and accurate recorded images through D-Link's IP surveillance cameras and seamless Wi-Fi connectivity helped Maple Bear Katong achieve real-time monitoring and internet access.

DCS-4622 is a 360 Full HD PoE Network Camera that is mounted on the ceilings of Maple Bear Katong to achieve the 360 degree viewing mode, on top of other features such as 2-way audio, microSD card slot on board, and 25 ft. night vision.

DCS-4622 features a 1080p 3-megapixel sensor, together with digital wide dynamic range (WDR) and distortion correction technology that allows detailed capturing. Its fixed fisheye lens has a focal length of 1.1mm and an F2.0 aperture.

Surveillance software, D-ViewCam, is included with DCS-4602-EV and DCS-4622 to enable viewing, management, and recording from up to 32 cameras on a single computer in a central location. Recordings and e-mail alerts can be triggered through motion detection or events triggered by digital input devices, keeping administrators informed of any unusual activity.

DNR-2020-04P is a standalone Network Video Recorder (NVR) that can record video from up to sixteen network cameras due to its video-management software and dual HDD storage. Featuring Power over Ethernet (PoE), the NVR supplies power to up to four PoE cameras, saving valuable time and electrical installation costs.

The DAP-2610 Wireless AC1300 Wave 2 Dual-Band PoE Access Point delivers reliable, high-speed wireless performance using the latest 802.11ac Wave 2 standard with maximum wireless signal rates of up to 400 Mbps (256-QAM) over the 2.4 GHz band, and 900 Mbps over the 5 GHz band.

The DAP-2610 is designed to support MU-MIMO technology that allows multiple devices to get high-bandwidth Wi-Fi signal at the same time. It also has integrated 802.3af Power over Ethernet (PoE) support, allowing the device to be installed in areas where power outlets are not readily available.

DGS-1100-26MP, 26-Port Layer 2 Gigabit PoE Smart Managed Switch, provides 24 PoE-enabled ports, a power budget of 370W, and all PoE-enabled ports supports up to 30W. With an automatic Surveillance VLAN and 6KV surge protection and Its support for PoE, deployment time for IP cameras and access points is greatly reduced.

DCS-4602EV Full HD WDR Vandal-Proof PoE Dome Camera	**DCS-4622** 360-Degree Full HD WDR PoE Fisheye Camera	**DNR-2020-04P** 2-Bay PoE Network Video Recorder
DAP-2610 Wireless AC1300 Dual-Band PoE Access Point	**DGS-1100-26MP** 26-Port Layer 2 Gigabit PoE Smart Managed Switch	D-Link's Wireless and Surveillance Site Survey is the starting point for a successful wireless LAN / IP surveillance upgrade or initial implementation. We determine the most effective solution to not only meet the requirements of your business, but also your budget. Book your **Site Survey** now!