IT Facilities at DGS

All buildings are connected to the school network via a 10 Gbps optical fibre backbone and 802.11n Wi-Fi system. The bandwidth of Broadband Internet access is increased to 100 Mbps. Totally there are 1,700 date nodes in both Schools.

Almost 200 Cisco Aironet 1142 and 1262 Wi-Fi access points have been installed to cover all classrooms, special rooms and open spaces in the campus.

Two Cisco C40 videoconferencing systems, each with two HD cameras and a highly sensitive ceiling mic, are installed in Modern Language Centre and Chinese Cultural Centre for activities with overseas sister schools.

The VoIP system provides a unified communications platform for both Schools. More than 100 IP phone sets have been installed in all offices, necessary classrooms and special rooms for staff use and along the corridors for student use. The school telephone system is now more customizable with improved efficiency to facilitate administrative work.

Network Infrastructure

Cisco Catalyst 6509 core switch and 2960S switches in the Server Room

The backbone of IT facilities was the most important whole-school system in the Redevelopment Project because any form of replacement is extremely difficult, requiring time and enormous effort. Hence, resources have been put into building a network infrastructure that is perceived to serve the redeveloped school campus for as long as possible.

As one combined system for DGS and DGJS in the redeveloped school campus, the network infrastructure is supported by the Cisco Catalyst 6509 core switch and 2960S switches, providing an integrated platform for the wired network, wireless network, Voice over IP (VoIP) system, and videoconferencing systems.

IT Facilities for Teaching and Learning Activities

students using iPads in IT lesson

50 Apple iPads and accessories have been procured for the School Improvement Project "Migration towards Mobile Learning". In the three-year project period, each teacher is requested to use iPads in one learning activity in class, and each subject department will design some learning activities using iPads on one topic for one level of students.

IT Facilities for Student Use

students using iMac computers in the Library during break

IT facilities for student use are mostly set up in the Library, Multimedia Learning Centre (MMLC), and Computer Rooms. There are 7 Apple iMac Core i7 27" computers in the Library on Level 3. Students like to use them for group work because of their large monitor displays.

students doing Internet research during a History lesson in MMLC

The MMLC is located inside the Library. There are 44 student computers and 1 teacher computer in the room. They are equipped with up-to-date software like Microsoft Office 2010, Adobe Design Premium CS 5.5, Corel Video Studio Pro X4, etc. The room can be booked by teachers for lessons that require each student using a desktop computer on her own. The room is also open during lunch and after-school for students to use desktop computers to do their assignments and projects.

A desktop computer, visualizer and projector are installed in each classroom or special room for teaching and learning activities.