



MOTOTRBO™ Gets 'A' for Clarity and Coverage



The work of River Valley High School's Operations Support and Security officers is important to ensure a safe and secure environment for the students and staff. Staying in constant contact among operation staff enables effective and responsive operations support. Whether it is normal day-to-day operations or during emergencies, a reliable and robust communication system gets the job done effectively.

Challenge: School Expansion and Limited Radio Coverage

River Valley High School has since grown from a modest intake to a growing 2,600 students with a large teaching and supporting staff.

To accommodate growing student population of six levels (Secondary and JC), the school has relocated to a newly-constructed and sprawling campus in Boon Lay in 2010. The campus also house three dormitory blocks, bringing together foreign students from all around the world.

The school's rapid expansion was a milestone for celebration but it also quickly became a cause of concern. The school's Operations Manager, Michael Ho, found the aging analog radio system unable to meet the demands of the new campus.

Communications is required in managing school operations. From controlling traffic and car/bus parking to managing operations staff deployment, the school's operations and security crew coordinate closely for a rapid response. Isolating and rectifying safety hazards in the fastest possible time may prevent a nasty accident.

The Operations Support, Technology and Science Laboratory staffs are constantly moving around in the campus and contacting them for a more immediate support post some difficulties. Having an effective communications system enables more efficient support and also faster response to emergencies.

Solution: Making the Educated Move to Digital Radio Communications

The school's technology partner and Motorola Authorised Distributor – CRS Communications Pte Ltd deployed a working system to give a live demonstration of MOTOTRBO™ capability.

Holding MOTOTRBO portable radios, the school's officers walked across the expansive premises, going up several floors and even past the 15 storey dormitory block. Immediately, they could tell the difference in radio coverage. Their conversations were noise-free and clear – MOTOTRBO digital radio delivered the clarity and coverage they want in their wireless radio communications.



About CRS Communications Pte Ltd

Incorporated in 1997, CRS Communications Pte Ltd is a Motorola Authorized Distributor and Service Centre in Singapore. With over 15 years of experience in system design and installation, the company supports a strong customer base of government and commercial organizations, delivering trunked radio service maintenance and supplying telecommunications equipment and accessories. Visit company website www.crs.com.sg.

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Graduating to Motorola's Next Generation Professional Digital Two-way Radio

With the heightened security requirements enforced by the Singapore's Ministry of Education, the school officials were eager to implement a more robust and reliable communications system.

The campus' migration to the digital radio solution started with CRS's assistance to secure a successful application for operating repeaters from the Info-communications Development Authority, and swiftly commissioned their new system of a MOTOTRBO repeater and 30 units of MOTOTRBO XiR P8208 portable two-way radios.

"River Valley High School's deployment is the first MOTOTRBO system in a Government Educational Institution (Ministry of Education) in Singapore. Within two days, we successfully commissioned the digital platform in the campus on 4 May 2010, making a proud contribution to the school's advancement plans," said Christopher Chong, Sales Director of CRS.

Expanded Coverage and User Base

With digital error-correction technology, MOTOTRBO provides much clearer audio quality than is possible with analog, especially in fringe coverage areas – and that's especially important on this sprawling campus. A digital signal is inherently clearer than analog, but with static and noise cancellation while enhancing the voice, MOTOTRBO audio becomes even crisper and sharper in noisy environment.

"Our Operations Support and Security Officers move around all day, they can be anywhere. When situations arise, they need to get there in the quickest response time. For example, if an

unauthorized person enters the school compound, or a student needs help, we will alert the nearest officer for immediate action," says Michael Ho, "with our MOTOTRBO radios, we know our instructions will get to them and they can report back, regardless they are indoors or outdoors in noisy environments."

Using MOTOTRBO also proved to be more cost effective. The Time-Division Multiple Access (TDMA) technology enables double repeater channel capacity in the existing spectrum. The school's single repeater does the work of two, allowing separate channels for different talk groups.

The Operations Support and Security Officers for the school and hostel were communicating securely on one channel while the other channel was dedicated to the school's Technology and Science Laboratory Staff. During an emergency, all the users can switch to same channel.

Upgraded Radio Communications Enjoy More Benefits

School hours extend beyond the time in the classroom. Co-curricular activities such as band and orchestra practices and class project meetings mean students and teachers are on campus for longer periods. The library opens till 9.00pm daily to cater for exam preparations and the hostel operates round the clock.

Since the digital radios boast of longer battery life with IP57 water submersibility capability, their MOTOTRBO users stay connected, come rain or shine and long after the last student goes to bed in the dormitory. Moreover, the school has the capability to incorporate other robust features, such as Voice logging, Lone Worker and SMS service for their future communication plans.



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