



## International Network of Schools Relies on Grandstream's UC and Networking Solutions

### RED DE COLEGIOS • SEMPER ALTIUS •

Red de Colegios Semper Altius is an international network of schools with more than 60 years of experience in 18 countries throughout Latin America, North America, Europe and Asia. They operate over 100 schools around the world, including 65 schools in Mexico. Semper Altius provides continuity from preschool through high school and offers undergraduate and graduate programs through the Anahuac University Network, which has 13 campuses in Mexico and presence in the United States, Spain, Chile and Italy.

#### The Requirement: A New Communications and Networking Solution

A network of three schools and a central office operated by Semper Altius in Mexico City was in need of a new communications platform and endpoints. They were using an outdated Avaya analog PBX that supported mostly analog trunks, along with outdated analog phones. They wanted a solution that could integrate various platforms (analog or SIP; E1, T1 and J1 ports) and technologies (voice, video, data, mobility). Semper Altius needed the ability to frequently, manage, customize and update their voice platform, specifically IVR and auto-attendant messages. Lastly, they wanted to avoid licensing and other on-going fees.

Semper Altius was also interested in building a WiFi network in one of the three schools. They needed a solution that would offer fast WiFi speeds, support hundreds of users, offer high-end security protection and a centralized installation and management platform.

Semper Altius reached out to local technology installer, Emer Communications, to request a bid for the project. After consulting with their distribution partner, SYSCOM, Emer Communication submitted a bid of all Grandstream solutions for the Semper Altius deployment, including multiple UCM series IP PBXs, multiple IP Phone models, and GWN series WiFi Access Points. After considering a number of other bids, Semper Altius selected the Grandstream solution submitted by Emer Communications.



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#### Highlights of Semper Altius' Grandstream Solution

- ✓ Robust UC support
- ✓ No licensing or extra fees
- ✓ Scalability and Redundancy
- ✓ 4 sites sharing a network
- ✓ Powerful IP phones
- ✓ An immersive WiFi network



## The Solution – Building the Communications Network



The anchor of Semper Altius' new solution is the UCM series of IP PBXs. This powerful on-premise IP PBX allows the school's network to integrate both analog and digital services and devices. The UCM series provides a fully comprehensive unified communication platform, including video, data, mobility and security support, with all features included and no licensing fees ever required

A total of three UCM6510's were installed, with one at each school, and a UCM6202 was installed in the central office. All IP PBXs are peered together on the same network to create a redundant network that allows in-network calls from school-to-school while still enabling each school to manage their own IVRs, auto-attendants and more. Additionally, the UCM series offers a number of mobility options important to the school, including voicemail forwarding to email, the ability to register an extension on multiple devices, customized call forwarding and more.

Because they chose the UCM series of IP PBXs, Grandstream IP phones were the ideal choice for Semper Altius. Though they will support any third party endpoint, the UCM series offers a variety of extra features and functionalities to Grandstream IP phones. This is highlighted by the Zero Config provisioning process it offers to Grandstream phones, which allows any UCM series device to instantly detect and automatically configure any Grandstream endpoint.

## The Solution – Telephony Endpoints

To take advantage of the features offered by the UCM series and to support a quick and easy deployment with seamless on-going management, Emer Communications installed a variety of Grandstream IP phones for Semper Altius.



### **GXP1630**

Each school featured 100-plus GXP1630s in classrooms and administrative areas. They were chosen because they offer Gigabit speeds as the schools were planning to utilize the PC port for computer connections while using 3 lines on each device.



### **GXP2160**

Deployed for receptionists at the three schools, the GXP2160 offers a total of 30 built-on speed-dial/BLF keys for quick and easy dispatching of calls.



### **GXP2135**

This well-designed, sleek IP phone was deployed for managers and directors because of its high-end look and feature set, including Bluetooth support.



### **GXP1615**

Close to 75 GXP1615s were installed for staff at the central office. This Basic IP phone is incredibly easy-to-use and has a small desktop footprint while still offering advanced VoIP features.



### **GAC2500**

This innovative Android-based Conference Phone was deployed in conference rooms throughout the central office. The GAC2500 offers full access to the Google Play Store to support calling through any Android app, WiFi support for mobility, Bluetooth support, and a built-in 6-way conference bridge.



### The WiFi Solution

Emer Communications installed 16 of Grandstream's GWN7610 WiFi Access Point throughout one of Semper Altius' schools in Mexico City. The GWN7610 allowed the school to build a WiFi network that covered their entire campus, offered incredibly fast speeds and had the power to support hundreds of users in any area. This high powered WiFi AP supports dual-band WiFi and offer speeds up to 1.75 GB per second while supporting up to 250 simultaneous clients. It also features Grandstream's market-leading built-in controller technology to allow the entire network of APs to be setup and managed centrally through the user interface of one AP.

### The Results and Next Steps

Semper Altius' solution shows off the true power of the integrated Grandstream solution. The UCM series provides a powerful network anchor that can support many service options and offer integrated voice, video, data and mobility support – all without licensing fees. Building a network of UCM devices offers Semper Altius scalability for future expansion, redundancy through numerous in-network backup options and the ability to make easy extension calls between the schools. Combining the UCM series with Grandstream IP phones allowed for quick and easy installation while allowing Semper Altius to access an optimized feature set on easy-to-use yet powerful IP phones.

Finally, the GWN series caps off the whole deployment by providing a powerful WiFi network anchored by APs from the same manufacturer as their UC solution. As a result of their integrated Grandstream solution, Semper Altius' three schools and administrative office in Mexico City are thriving and operating as smoothly and efficiently as ever before.

## About Emer Communications

Emer Communications is a technology integrator with presence in Mexico City and Merida. The company offers a wide variety of services including complete turnkey solutions. Their team of qualified engineers designs and deploys mainly IP Telephony and WiFi networks projects for all kind of businesses using the best and most advanced technology available. For more information, contact [emilioalonso@totalnetworkkit.com](mailto:emilioalonso@totalnetworkkit.com).

## About SYSCOM



SYSCOM is a leading global distributor of telecommunications and security solutions. The company has 15 distribution centers in the United States and Mexico and partnerships in Central a South America. To learn more, visit [www.syscom.mx](http://www.syscom.mx)

## About Grandstream



GRANDSTREAM

Grandstream Networks, Inc. has been connecting the world since 2002 with SIP Unified Communications solutions that allow businesses to be more productive than ever before. Our award-winning solutions serve the small and medium business and enterprises markets and have been recognized throughout the world for their quality, reliability and innovation.