

Networking Solutions from Grandstream



Why Choose Networking Solutions from Grandstream?

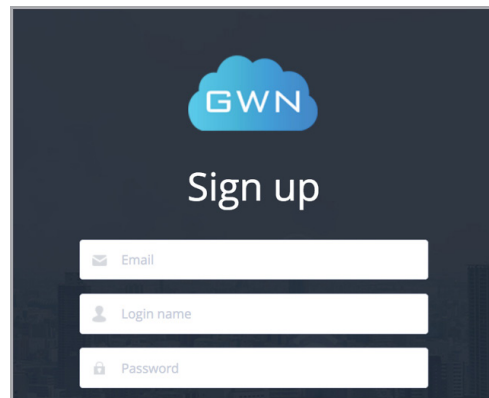
Grandstream's GWN series of networking solutions is designed to make networking easy without sacrificing power. We offer every access point and management platform you need to build a powerful Wi-Fi solution for any setting. Our APs offer industry-leading range, client support, security and roaming while providing indoor, outdoor and long-range options. For management, we offer free cloud and mobile app management with GWN.Cloud, on-premise software management with GWN.Manager, and our APs include built-in Wi-Fi controller software as well. Our solutions can be paired with Grandstream routers and third party routers, making them ideal for new and existing Wi-Fi deployments.



Market Leading Benefits of the GWN series

- ✓ Provides all products needed to create powerful Wi-Fi networks, complete with free management tools and real-time reports and alerts
- ✓ Wired and wireless Internet access can be managed from a single dashboard
- ✓ The solution is scalable and can be tailored for small, medium, or large businesses with no extra fees involved
- ✓ All GWN access points have an embedded controller for easy set up management directly from the Web UI
- ✓ Manage and streamline mass GWN AP deployments in multiple locations through our cloud platform, GWN.Cloud, or through the on-premise software controller, GWN Manager
- ✓ One GWN7000 router can support multiple networks, allowing for private and public networks to be managed from the same device
- ✓ GWN devices work with 3rd party routers and access points
- ✓ A unique security certificate is built into every GWN series AP to encrypt that data and traffic going back and forth between the AP, the controller and the controller's web user interface
- ✓ Random default password generated per AP to increase security protection
- ✓ Anti-Hacking security, critical data and control lock down

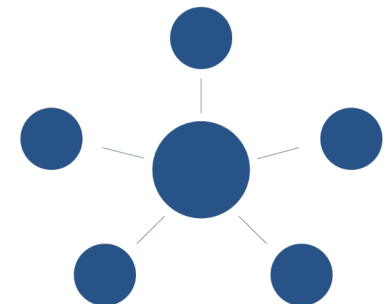
**Easy setup and
management through cloud
platform.**



**Strong anti-hacking security
options.**



**Can support multiple
networks and be managed
through the same device.**

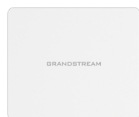


GWN Series Access Point Overview



GWN7600
Mid-Tier 802.11ac
Wave-2 Wi-Fi Access
Point

- » 1.27Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 2x2:2 MU-MIMO technology
- » Support for more than 450+ Wi-Fi client devices
- » Up to 165-meter coverage range



GWN7602
Wi-Fi AP with
Integrated Ethernet
Switch

- » 1.17Gbps aggregate wireless throughput, 1x Gigabit and 3x 100Mbit wireline speed
- » Dual-band 2x2:2 MIMO technology
- » Support for more than 80+ Wi-Fi client devices
- » Up to 100-meter coverage range



GWN7605
802.11ac Wave-2 Wi-Fi
Access Point

- » 1.27Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 2x2:2 MIMO technology
- » Support for more than 100+ Wi-Fi client devices
- » Up to 165-meter coverage range



GWN7610
Enterprise 802.11ac
Access Point

- » 1.75Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 3x3:3 MIMO technology
- » Support for more than 250+ Wi-Fi client devices
- » Up to 175-meter coverage range



GWN7615
Enterprise 802.11ac
Wave-2 Wi-Fi Access
Point

- » 1.75Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 3x3:3 MIMO technology
- » Support for more than 200+ Wi-Fi client devices
- » Up to 175-meter coverage range



GWN7630
Enterprise 802.11ac
Wave-2 Wi-Fi Access
Point

- » 2.33Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 4x4:4 MIMO technology
- » Support for more than 200+ Wi-Fi client devices
- » Up to 175-meter coverage range



GWN7660
802.11ax 2x2:2 Wi-Fi 6
Access Point

- » 1.77Gbps aggregate wireless throughput and 2x Gigabit Ethernet ports
- » Dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology
- » Support for more than 256+ Wi-Fi client devices
- » Up to 175-meter coverage range

Indoor

GWN Series Access Point Overview



GWN7600LR

Outdoor Long-Range Wi-Fi Access Point

- » 1.27Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 2x2:2 MU-MIMO technology
- » Support for more than 450+ Wi-Fi client devices
- » Up to 300-meter coverage range



GWN7605LR

Outdoor Long-Range Wi-Fi Access Point

- » 1.27Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 2x2:2 MU-MIMO technology
- » Support for more than 100+ Wi-Fi client devices
- » Up to 250-meter coverage range

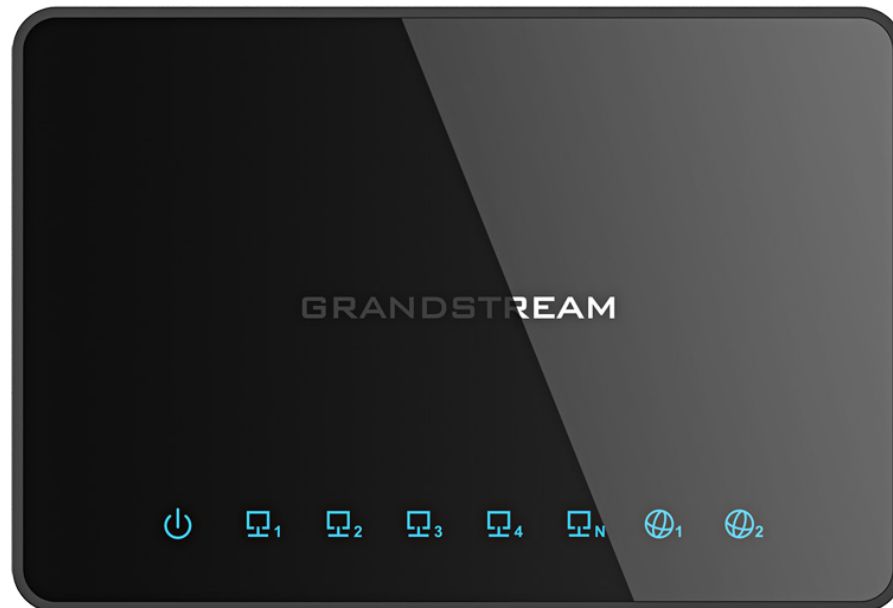


GWN7630LR

High-Performance Outdoor Long-Range Wi-Fi Access Point

- » 2.33Gbps wireless throughput and 2x Gigabit wireline ports
- » Dual-band 4x4:4 MU-MIMO technology
- » Support for more than 200+ Wi-Fi client devices
- » Up to 300-meter coverage range

Outdoor



GWN7000

Enterprise Multi-WAN Gigabit VPN Router

- » 7 Gigabit ports (2 WAN and 5 LAN)
- » Hardware accelerated VPN
- » Embedded controller to control 300+ APs
- » Multi-WAN ports with load balancing and failover
- » 1 million packets/second routing & 10Gbps aggregate switching power
- » Rich peripheral support like printer, NAS, file server

Grandstream Indoor GWN Series Comparison Chart



GWN Series Comparison Chart - Indoor

Specifications	Indoor Wi-Fi Access Points					
Model	 GWN7600	 GWN7602	 GWN7605	 GWN7615	 GWN7630	 GWN7660
Client Devices	450+	Up to 80	100+	200+	200+	250+
Range	up to 165 Meters	up to 100 Meters	up to 165 Meters	up to 175 Meters	up to 175 Meters	up to 175 Meters
Network Interfaces	2x autosensing 10/100/1000 Base-T Ethernet Ports	1x 10/100/1000M uplink Ethernet port with PoE/PoE+ 2x 10/100M Ethernet port with PSE 1x 10/100M Ethernet port	2 x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports
PoE/PoE+	Supports PoE 802.3af Max consumption:13.8W	Supports 802.3 az; PoE 802.3af/ 802.3at PSE max output per port: 6W; Max Consumption: 20W	Supports PoE 802.3af/ 802.3at Max Consumption: 10.16W	Supports PoE 802.3af/802.3at; Max consumption: 12.5W	Supports PoE 802.3af/ 802.3at; Max Consumption: 16.5W	Supports PoE 802.3af/ 802.3at; Max Consumption: 9W
2.4G Throughput	400Mbps (2x2:2 MIMO)	300Mbps (2x2:2 MIMO)	300Mbps (2x2:2 MIMO)	450Mbps (3x3:3 MIMO)	600Mbps (4x4:4 MIMO)	573.5Mbps (2x2:2 MIMO)
5G Throughput	867Mbps (2x2:2 MU-MIMO)	867Mbps (2x2:2 MIMO)	867Mbps (2x2:2 MU-MIMO)	1300Mbps (3x3:3 MU-MIMO)	1733Mbps (4x4:4 MU-MIMO)	1201Mbps (2x2:2 MU-MIMO)
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac (Wave-2)	IEEE 802.11a/b/g/n/ac	IEEE 802.11a/b/g/n/ac (Wave-2)	IEEE 802.11a/b/g/n/ac (Wave-2)	IEEE 802.11 a/b/g/n/ac (Wave-2)	IEEE 802.11 a/b/g/n/ac/ax
SSIDs	32 SSIDs total, 16 per radio (2.4Ghz and 5Ghz)	8 SSIDs total, 4 per radio (2.4Ghz and 5Ghz)	16 SSIDs total, 8 per radio (2.4Ghz and 5Ghz)	32 SSIDs total, 16 per radio (2.4Ghz and 5Ghz)	32 SSIDs total, 16 per radio (2.4Ghz and 5Ghz)	32 SSIDs total, 16 per radio (2.4Ghz and 5Ghz)
Network Management	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller
Antennas	2 dual band internal antennas	2 dual band internal antennas	2 dual band internal antennas	3 dual band internal antennas	4 dual band internal antennas	2 dual band internal antennas
Wi-Fi & System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
Dimensions	180.4x180.4x40.8mm	135x115x30mm	180.4x180.4x40.8mm	205.4x205.4x45.9mm	205.3x205.3x45.9mm	180.4x180.4x40.8mm
Mounting	Indoor wall mount or ceiling mount	Wall Mountable	Indoor wall mount or ceiling mount	Indoor wall mount or ceiling mount	Indoor wall mount or ceiling mount	Indoor wall mount or ceiling mount, kits included

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Grandstream Long-Range Weatherproof GWN Series Comparison Chart



GWN Series Comparison Chart - Long Range

Specifications	Long-Range Weatherproof Wi-Fi Access Points		
Model	 GWN7600LR	 GWN7605LR	 GWN7630LR
Client Devices	450+	100+	200+
Range	300 Meters	250 Meters	300 Meters
Network Interfaces	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports
PoE/PoE+	Supports PoE 802.3af/802.3at; Max Consumption: 12.9 W (PoE); 23.0 W (PoE+)	Supports PoE 802.3af/802.3at; Max Consumption: 10.16W	Supports PoE 802.3af/802.3at; Max Consumption: 16.5W
2.4G Throughput	400Mbps (2x2:2 MIMO)	300Mbps (2x2:2 MIMO)	600Mbps (4x4:4 MIMO)
5G Throughput	867Mbps (2x2:2 MU-MIMO)	867Mbps (2x2:2 MU-MIMO)	1733Mbps (4x4:4 MU-MIMO)
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac (Wave-2)	IEEE 802.11a/b/g/n/ac (Wave-2)	IEEE 802.11a/b/g/n/ac (Wave-2)
SSIDs	16 SSIDs per radio	16 SSIDs per radio	16 SSIDs per radio
Network Management	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller
Antennas	2 dual band internal antennas	2 dual band external antennas	4 detachable/changeable dual-band omnidirectional antennas
Wi-Fi & System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures
Dimensions	290x150x35mm	558.3x115x45.3mm	533.1x115x40mm
Mounting	Outdoor base bracket and cover bracket	Wall mount or pole mount	Wall mount or pole mount
Weatherproof Capabilities	IP66-level	IP66-level	IP66-level

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Network Management

GWN.CLOUD



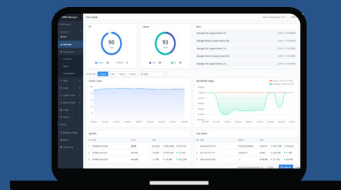
GWN.Cloud is a **FREE** enterprise-grade, management platform for Grandstream access points. Thanks to streamlined monitoring and maintenance, managing your network across multiple locations has never been easier. Secure networks can be deployed in seconds using our GWN.Cloud mobile app or the web browser interface, then later managed from the same interface. Keep an eye on the network's performance with real-time monitoring, alerts, statistics and reports that can be viewed using a web browser or the mobile application, then later managed from either interface. The monitoring capabilities are easy for anyone at any technical level to understand and use. If any problems arise in the middle of the night, the support technician can easily log on and troubleshoot without being onsite.

Benefits:

- Cloud-based platform ideal for managing medium, large and multi-site networks
- Complete scalability: supports an unlimited number of sites and APs
- Access from anywhere via the web interface or GWN.Cloud mobile app, allowing remote, off-site configuration, management and maintenance
- GWN.Cloud mobile app allows APs to be added by scanning a barcode
- Full suite of real-time networking monitoring and reporting tools
- Bank-grade TLS encryption and X.509 certificate-based authentication

[LEARN MORE](#)

GWN MANAGER



GWN Manager is a **FREE** on-premise enterprise-grade, management platform for Grandstream access points. Typically deployed on a customer's private network, this flexible, scalable solution offers simplified configuration and management. Thanks to streamlined monitoring and maintenance, managing your network has never been easier. Keep an eye on the network's performance with real-time monitoring, alerts, statistics and reports that can be viewed using a web browser or the mobile application. The GWN Manager is ideal for many companies who have strict privacy policies and do not allow Cloud storage, making the Manager a great alternative to the GWN.Cloud. The GWN.Cloud and GWN Man

It offers complete scalability with an **UNLIMITED** number of sites or APs.

Benefits:

- Ideal for managing medium, large and multi-site networks who prefer on-premise software to cloud platforms
- Complete scalability: supports an unlimited number of sites and APs
- Full suite of real-time networking monitoring and reporting tools
- Bank-grade TLS encryption and X.509 certificate-based authentication

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EMBEDDED CONTROLLER

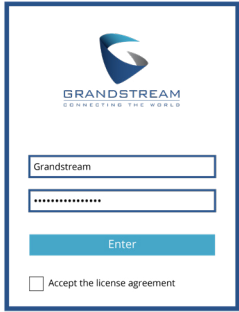


Our GWN series of Routers and APs includes controller software at no extra cost and it is simply built-in to the product's web user interface. Our embedded controllers can auto-discover and auto-provision any in-network GWN series AP from the designated Provisioning Master (either an AP or the GWN7000), which also offers a centralized provisioning and management interface. All GWN series APs, except the GWN7602, include a build-in controller that can support 30 or 50 other GWN series APs, depending on the model.

Here is a quick look at the easy 4 step process of setting up Wi-Fi networks with our built-in controllers:

1. Log in to the GWN router or APs web user interface.
2. The Setup Wizard will set up the device as the master and setup initial network settings
3. From the master's web UI, go to the "Access Points" screen, to see all in-network GWN APs
4. Select the GWN APs you want to add to the network for automatic provisioning.

Key Security Features



Captive Portal

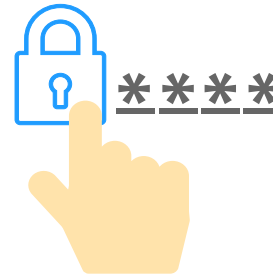
Define a Portal Web Page that will be displayed on Wi-Fi clients' browsers when accessing the Internet. Authentications include: RADIUS, Social, Voucher, or the option for No Authentication.

View the Guide [HERE](#)



Unique Security Certificates

Unique security certificate built into every GWN series Access Point to encrypt data and traffic going back and forth between the AP, the controller and the controller's web user interface.



Random Default Password

Added security through random default passwords for every GWN access point.



Anti-Hacking Security/ Critical Data and Secure Lockdown

Powerful firmware security anti-hacking protection will block illegal changes to the firmware as well as encrypt files to add extra layers of security.



Firewall

Strong Firewall including: Traffic Matching (MAC, IP, Port, Protocol) Action (SNAT, DNAT, Port Trigger, Route, Drop, Reject), DMZ Host, Forwarding Rules, Inter-VLAN Routing, and SYN Flood Protection.



Virtual Private Network

Create secure networks through VPN Server/Client: OpenVPN, PPTP, L2TP/IPSec (client only), and Site-to-Site VPN options.



Client Bridge

Client bridge allows an access point to be configured as a client for bridging wired only clients wirelessly to the network. This allows the AP to share a Wi-Fi connection to the LAN ports transparently.



Client Connection Permissions

Enhanced Wi-Fi client blacklist configuration empowers the system administrator to set a fixed time to allow connection to the access point.

Wi-Fi Enabled Endpoints from Grandstream

IP Video Phones



GXV3380

The GXV3380 IP Video Phone for Android combines a 16-line IP video phone with a multi-platform video collaboration solution with integrated Wi-Fi to offer an all-in-one communications solution.

- Runs Android 7x
- Supports 16 lines and 16 SIP accounts
- 7-way HD audio conferencing & 3-way 1080p 30fps HD video capability

[Learn More](#)



GXV3370

The GXV3370 IP Video Phone for Android™ is a powerful desktop video phone featuring Android 7.0, a 7" touch screen, real-time HD video telephony, built-in Wi-Fi & Bluetooth, and more.

- Runs Android 7x
- Supports 16 lines and 16 SIP accounts
- 7-way HD audio conferencing & 3-way 720p 30fps HD video capability

[Learn More](#)



GXV3350

The GXV3350 is the ideal desktop video collaboration solution for busy professionals and executives and also offers a powerful yet cost-effective device for any conference room

- Runs Android 7x
- Supports 16 lines and 16 SIP accounts
- 6-way HD audio conferencing & 3-way 720p 30fps HD video capability

[Learn More](#)



GXV3240

The GXV3240 brings innovation to any desktop by providing a multimedia experience through its cutting edge functionality, integrated Wi-Fi and video conferencing abilities.

- Runs Android 4.2
- Supports 6 lines and 6 SIP accounts
- 6-way HD audio conferencing & 3-way video capability

[Learn More](#)

IP Voice Phones



GRP2600 Series

The GRP series features both essential and professional carrier-grade IP phones. The GRP2600 series are state-of-the-art, carrier-grade IP phones that were designed for mass deployment. This series of next-generation IP phones features a sleek new design, a reimagined user experience, unified firmware and powerful features including Wi-Fi support.

[Learn More](#)



GXP1760W

The GXP1760W is a mid-range, Wi-Fi-enabled IP phone that features a sleek design and moderate call-volume features, ideal for growing businesses at a budget friendly price point.

- 24 digitally programmable BLF/fast-dial keys
- Supports 6 lines and 3 SIP accounts
- 5-way audio conferencing

[Learn More](#)



WP820

The WP820 offers a portable Wi-Fi IP phone with dual-band Wi-Fi support, built-in Bluetooth, and sophisticated antenna design to allow users to seamlessly roam throughout any Wi-Fi environment.

- 7.5 hour talk time, 150-hour standby
- Supports 2 lines and 2 SIP accounts
- Configurable push-to-talk

[Learn More](#)



WP810

The WP810 is a portable Wi-Fi IP phone with dual-band Wi-Fi support. It's an affordable option and comes equipped with a combination of features to suit all portable telephony needs.

- 6 hour talk time, 120-hour standby
- Supports 2 lines and 2 SIP accounts
- Configurable push-to-talk

[Learn More](#)

Wi-Fi Enabled Endpoints from Grandstream

Video Conferencing



GAC2500

This Business Conference Phone offers a variety of mobility options by supporting Bluetooth for audio pairing and data syncing with mobile devices, as well as Wi-Fi for wireless calling/conferencing in any location.

- Runs Android 4.4
- Supports 6 SIP accounts and 7-way voice conferencing
- 4.3 inch capacitive touch screen

[Learn More](#)



GVC3200

The GVC3200 offers businesses a revolutionary video conferencing system with unprecedented flexibility and the power of support for multiple popular video conferencing protocols and platforms equipped with Wi-Fi support.

- Runs Android 4.4
- Embedded MCU allows up to 9 attendees
- Video resolutions up to 1080p

[Learn More](#)



GVC3210

The GVC3210 is an innovative video conferencing endpoint ideal for small to medium businesses who seek an easy-to-use yet powerful video conferencing solution with integrated Wi-Fi for wireless conference rooms.

- Runs Android 6x
- Support for Miracast wireless content sharing
- Video quality up to 4k resolution

[Learn More](#)



IPVideoTalk

Have better meetings, increase productivity and save money on business travel costs with IPVideoTalk. IPVideoTalk is Grandstream's video, audio and web conferencing platform that users to meet with anyone, anytime, using almost any device. IPVideoTalk meeting can be attended from almost any device, including PCs, Macs and any Android or iOS device using the free IPVideoTalk app.

[Learn More](#)

Facility Management



GSC3510

The GSC3510 is a SIP intercom speaker and microphone that allows offices, schools, hospitals, apartments and more to build powerful voice intercom solutions that expand security and communication.

- Full-duplex speakerphone with HD acoustic chamber, advanced acoustic echo cancellation
- 3 directional mics with MMAD & microphone beamforming array

[Learn More](#)



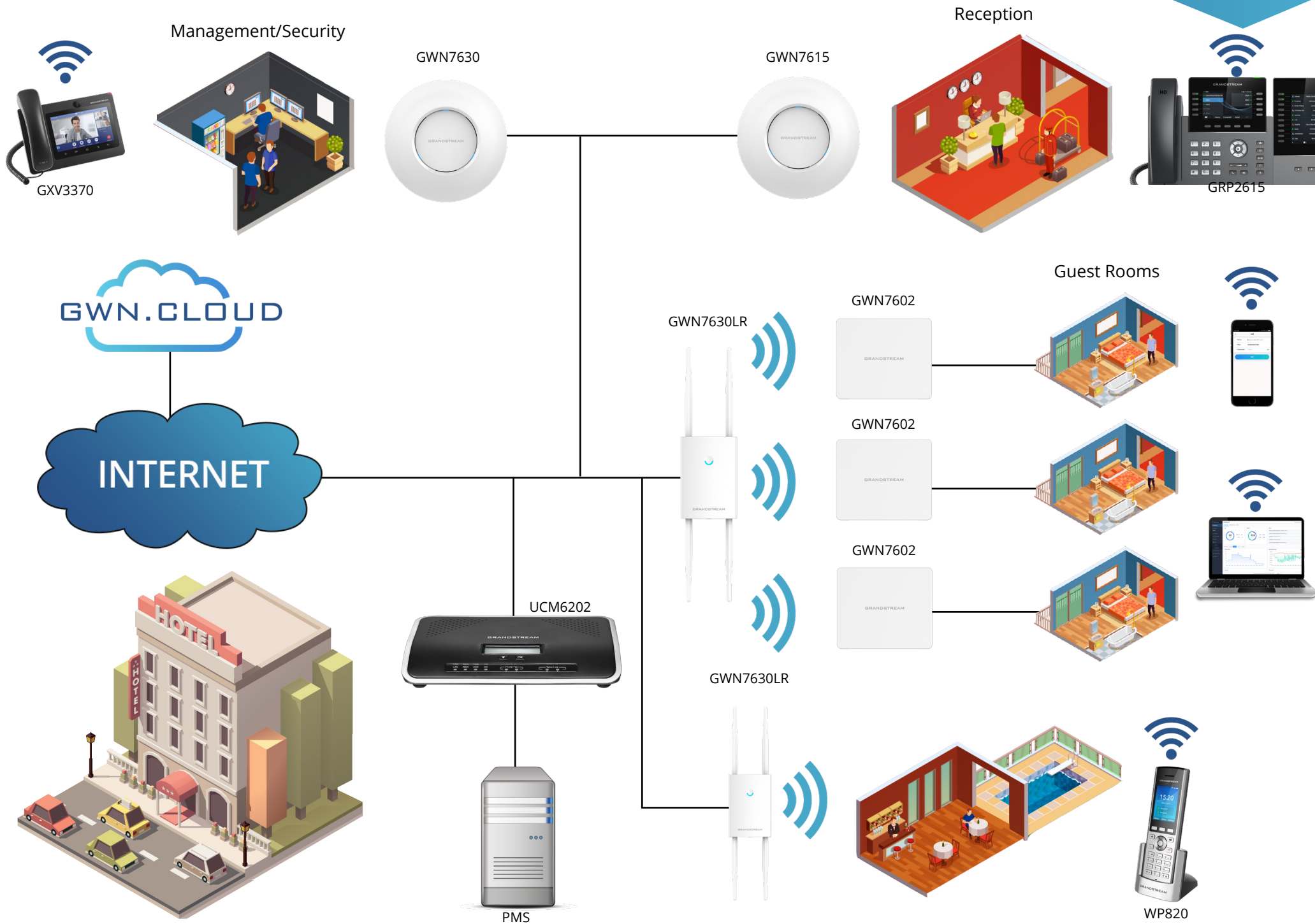
GSC3505

The GSC3505 is a 1-way public address SIP speaker that allows offices, schools, hospitals, apartments and more to build powerful public address announcement solutions that expand security and communication.

- Speaker with HD acoustic chamber
- Features SIP paging, multicast paging, call waiting with priority override

[Learn More](#)

Grandstream Wi-Fi Hotel Deployment Scenario



Hotel Deployment Scenario Explained

Deployment Strategy:

The Problem:

In this deployment scenario, a Hotel was undergoing a renovation. Not only did the exterior need some repairs, but their communication tools needed a modern upgrade as well. The hotel was not only receiving negative reviews online from guests about the slow Wi-Fi network, but hotel employees were saying the same. Guests noticed the Wi-Fi was not reaching the pool area so they needed secure network for the interior and exterior of the hotel. The IT department was also very small so having an easy network management platform was crucial.

The Solution:

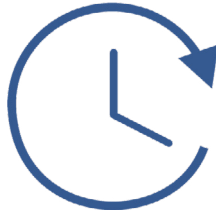
To resolve the hotel's network speed issues, they contacted their local installer to come up with a solution. The installer had previously deployed Grandstream phones throughout the hotel and recommended staying within the Grandstream portfolio to improve their Wi-Fi. The modern solution was to eliminate old wiring systems and upgrade their network with the GWN series of Wi-Fi access points.

- 
- The installer utilized the GWN7630LR long-range outdoor Wi-Fi access points that would cover the outdoor areas of the hotel grounds such as the pool.
 - Next the installer deployed GWN7602's to each guest room which provided guests with full strength Wi-Fi throughout their stay.
 - GWN7630's were deployed to staff area's allowing employees to gain full network access and power their Wi-Fi communication devices.

The Result:

Deploying Grandstream solutions allowed the hotel to build a powerful Wi-Fi network with modern features such as captive portal, time policies, LED scheduling and more. This also included the use of the GWN.Cloud which is Grandstream's cloud network management platform to ease the management of access points from any device at anytime. Not only were guests happy with the improvement but they received more positive reviews due to the renovations, which drove more business to the hotel than they had seen before.

Key Features



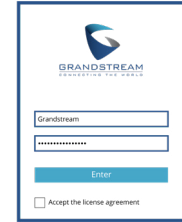
Time Policy

The timed client disconnect feature allows the system administrator to set a fixed time for which clients should be allowed to connect to the access point, after which the client will no longer be allowed to connect for a user configurable cool-down period. This allows the hotel to be able to give guests access to the Wi-Fi during the days of their stay.



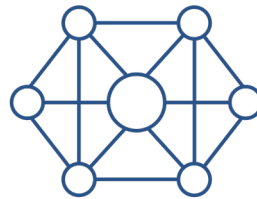
LED Scheduling

The LED schedule feature is used to set the timing when the LEDs are ON and when they will go OFF at customer's convenience. This can be useful for example when the LEDs become disturbing during some periods of the day, such as hotel rooms where the LED lights can be annoying to clients trying to sleep at night but you still don't want to shut down completely the Wi-Fi Access point.



Captive Portal

Captive Portal feature on GWN series helps to define a Landing Page that will be displayed on Wi-Fi clients' browsers when attempting to access Internet. Once connected to a GWN AP, Wi-Fi clients will be forced to view and interact with that landing page before Internet access is granted. This is a great Marketing tool for hotels.



MESH Network

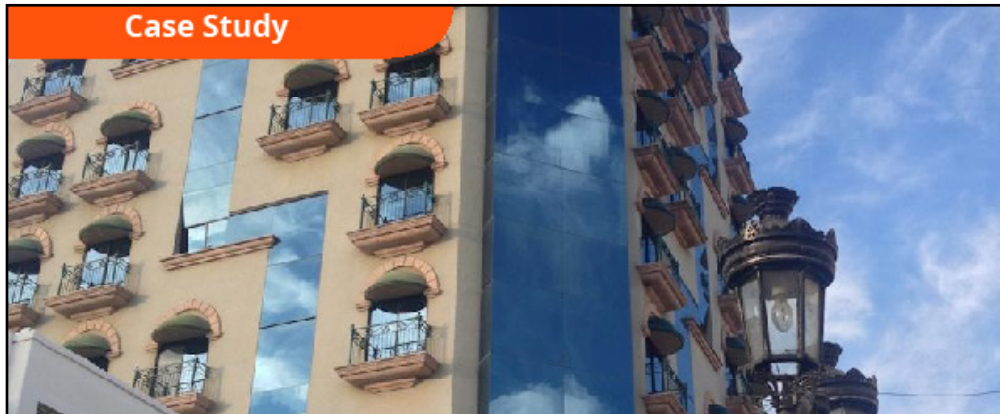
With MESH networks, wireless connection is established between multiple APs, which is used to pass-through data traffic rather than client association. Each AP will evaluate the wireless channels available and route the connection through the fastest available channel. A hotel will likely deploy many APs and setting up a MESH network can help to keep the system organized.



GWN.Cloud

GWN.Cloud is an enterprise-grade, management platform for Grandstream access points. A hotel may not always have an IT person on-site. The cloud platform allows for a user to access the network from the cloud platform. In case of emergencies the IT person could still login to the system to resolve any issues.

Case Study: Hotel Estancia



Case Study



GRANDSTREAM

Hotel Estancia Real's New WiFi Network Running on the GWN7610:

- ✓ Speeds up to 1.75GBps
- ✓ 250+ clients per AP
- ✓ Roaming Support
- ✓ Centralized Management
- ✓ Quick Installation
- ✓ Allows future expansion



Hotel Estancia Real Builds Powerful & Secure Network for Guests Using Grandstream's GWN series

Hotel Estancia Real, a 5-star hotel in San Juan de los Lagos, Jalisco, Mexico, was looking to implement a WiFi network in order to offer their guests the ability to access WiFi all throughout the hotel. This 9 floor hotel has 77 rooms, 2 bars, a restaurant, a night club and a business center that can accommodate up to 200 people. It is frequented by guests from all over the world. Since the hotel offers a variety of 5-star services, views and amenities, their WiFi network also had to be of 5-star quality.

The hotel chose a local reseller, Equipos y Tecnología, TSDC to handle the implementation of their WiFi network. Equipos y Tecnología worked with their distribution partner, Initalec Networks, to look at and analyze all potential products that would allow them to build the 5-star WiFi network that Hotel Estancia Real required.

WiFi Network Requirements

-  **1. Powerful and secure** – the hotel needed to be able to offer lightning fast WiFi speeds and ranges to cover the entire hotel and needed to be able to accommodate up to 250+ WiFi clients per device, and potentially more. This was especially important in their business center.
-  **2. Roaming Support** – the hotel wanted to be able to offer one network on all APs throughout the entire hotel so that guests could move around the entire hotel without having to change networks or re-login.
-  **3. Low maintenance** – Both the hotel and Equipos y Tecnología needed their WiFi solution to be low maintenance. It needed to be easy-to-install, easy-to-manage and it needed to offer a central portal in which the entire network can be setup and managed from one location.

After considering many different WiFi access points, Grandstream's GWN7610 was chosen for this 5-star WiFi deployment.

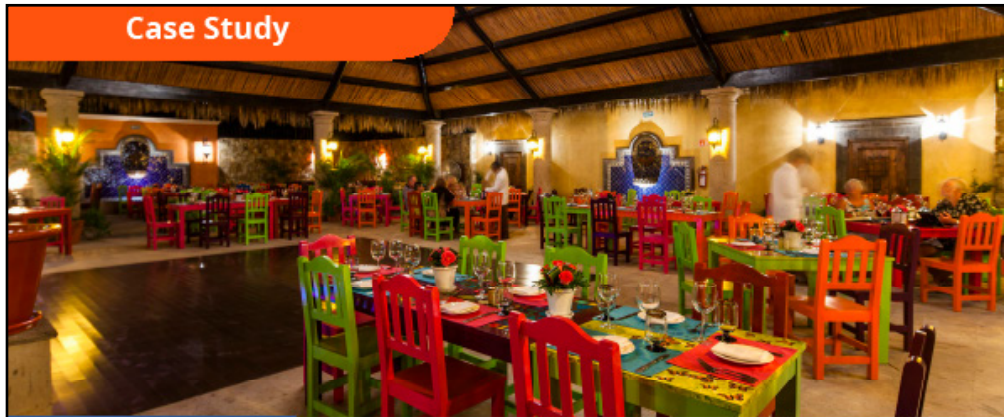
Hotel Estancia Real Builds Powerful & Secure Network for Guests Using Grandstream's GWN Series

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Case Study: Edith's Restaurant

Case Study




GRANDSTREAM

Highlights of Edith's Grandstream Solution

- ✓ Robust, long-range coverage
- ✓ Blazing fast WiFi speeds
- ✓ Weatherproof APs for outdoor use
- ✓ Easy, centralized management
- ✓ Separate guest & staff networks



A Popular Beach-side Restaurant in Mexico Relies on Grandstream's GWN series



Edith's is a popular restaurant in one of Mexico's prominent vacation destinations, Cabo San Lucas. The restaurant serves a fusion of Baja California and Guerreran cuisines highlighted by imported steaks, local seafood and fresh regional ingredients. This partially outdoor restaurant offers breathtaking views of Medano Beach and the famous Arch of Cabo San Lucas. Edith's is well-known to both local and tourists who frequent Cabo San Lucas.

Requirement: A Blazing Fast, Long-Range and Secure WiFi Network

As with any business, Edith's relied on a strong wireless network. They relied on it for processing credit card payments, keeping track of reservations, managing inventory, placing orders, tracking finances and to offer employees a dedicated data network. As importantly, Edith's needed to offer their customers a strong wireless network in order to meet the demands of today's consumers. With studies showing businesses that offer WiFi access to customers see an increase in sales, and most restaurants doing so, a strong guest network is a requirement.

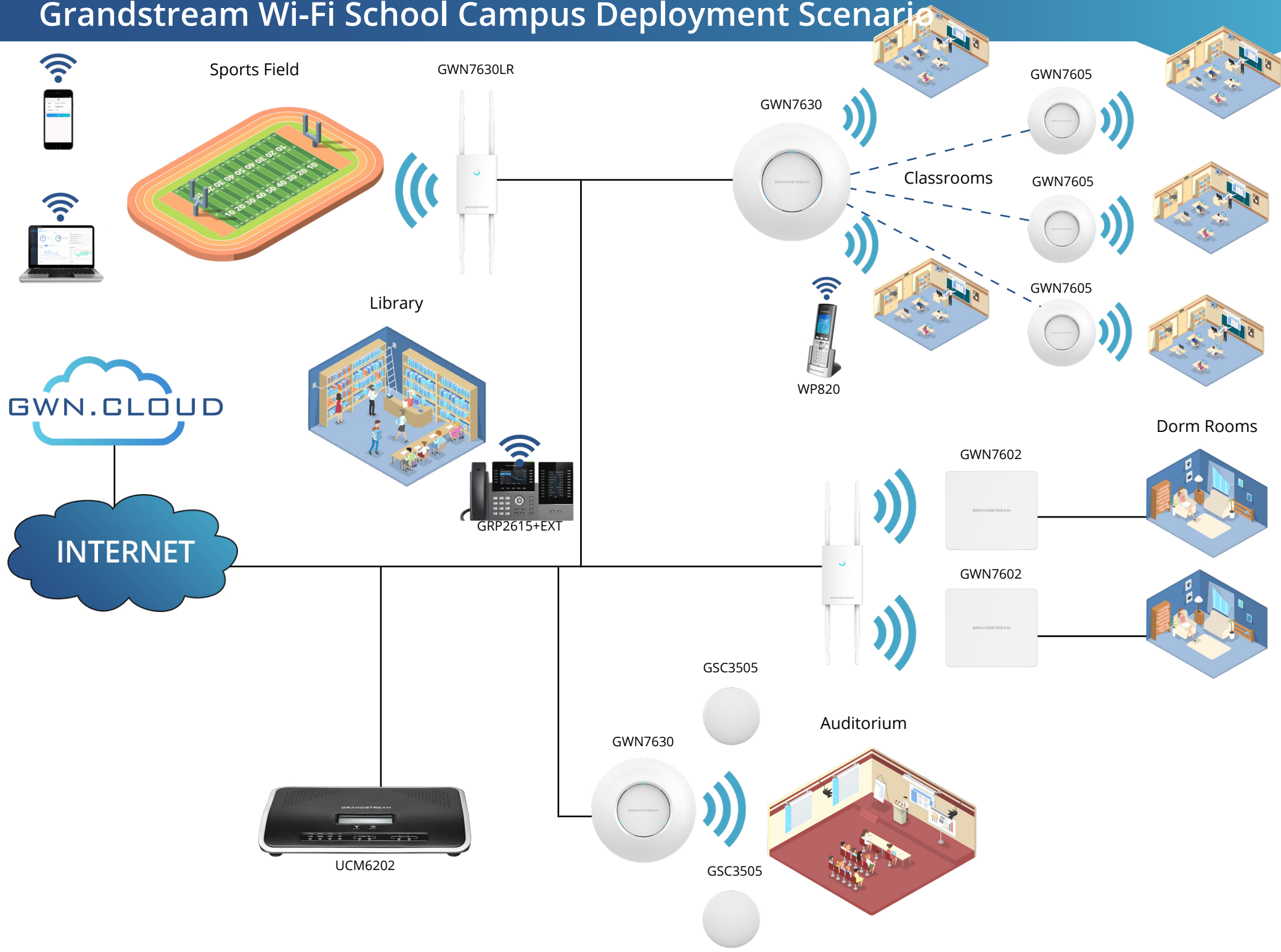
As Edith's business expanded, their network of WiFi access points could not support the increasing demand on their wireless network. They began to notice that they would get no connection or a poor connection in many high-traffic or distant areas of the restaurant. Edith's reached out to local communications installer and integrator, Cor IP, to help them build a faster, stronger network with greater range. After identifying the need to implement stronger WiFi access points, Cor IP decided to deploy Grandstream's GWN series at Edith's and purchased the devices from SYSKOM. Cor IP chose the GWN series, specifically the GWN7600LR, because of the high-end speeds, long-range and security features they offer. As important was the easy setup and manage processes the GWN series offers. The GWN7600LR's competitive price point, the high-end features it offers, and the fact that it offers an embedded controller that prevents the purchase of a separate controller, made the decision an easy one.

A Popular Beach-side Restaurant in Mexico Relies on Grandstream's GWN series

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Grandstream Wi-Fi School Campus Deployment Scenario



School Deployment Scenario Explained

Deployment Strategy:

The Problem:

In this deployment scenario, a local private boarding school with over 2000 students were seeing an increasing need for a new Wi-Fi network solution. With new modern tools for teachers and students there was also a need for a Wi-Fi solution that could handle the upkeep of devices on the network. This would allow teachers to stay more connected not only for communication purposes but also for educational and security purposes.

The Solution:

The school was granted a budget from the school board to implement a new Wi-Fi network that would allow for increased productivity. The school received a bid from a local installer who used Grandstream's GWN series of Wi-Fi access points.

- A MESH network was built for the system of classroom access points using the GWN7630 as the Master, and GWN7605s for each room. Teachers to use modern tools such as class designated laptops/tablets to present information such as digital textbooks and interactive materials such as question polls.
- Providing GWN7602s in the dorm rooms allow students to continue studying from the comfort of their bedroom after classroom hours.
- A GWN7630 was installed to power Wi-Fi devices for the auditorium including the GSC3505, 1-way public address speakers that were spread throughout so that any announcements could be heard by the whole crowd
- The GWN7630LR allows for outdoor Wi-Fi in area's such as a football field which allows coaches and spectators to gain access to the schools network.

The Result:

The result of deploying GWN series of Wi-Fi Access Points allowed the school to implement new teaching techniques, they saw an increase in student productivity and improvement of grades. Teachers were happy with this new system and found that students not only enjoyed the tools but participated more. Once the school board was able to see these changes they provided a budget to increase spending and scale the network as needed.

Key Features



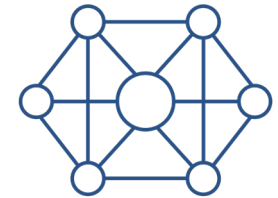
Wi-Fi Scheduling

The main usage of Wi-Fi scheduler is to schedule the times when the Wi-Fi is ON or OFF, this will give the administrator a flexible way to control the AP. A k-12 school may have strict policies with allowing students access to the Wi-Fi and if a signal is not needed during after school hours the user can set a schedule and the AP will shut down the wireless signal during specified hours.



Time Policy/Voucher

The voucher feature allows clients to have internet access for a limited duration using a code that is randomly generated from the GWN controller. In a school setting admins may only allow students access to Wi-Fi for certain periods of time such as in the library or during a computer class customers. A Voucher codes can be generated with a set amount of time and can be delivered on command, once the voucher expires the student will no longer have access to the Wi-Fi.



MESH Network

With MESH networks, wireless connection is established between multiple APs, which is used to pass-through data traffic rather than client association. Each AP will evaluate the wireless channels available and route the connection through the fastest available channel. Some educational campuses such as large universities will need to have many APs thus the need to keep it organized using a MESH network.



Omni-Directional Antennas

In an open outdoor space such as the sports field at a large school, the GWN7630LR comes equipped with omni-directional antennas. The omni-directional antennas can be deployed to radiate coverage evenly among 360 degrees in the horizontal direction.



GWN.Cloud

GWN.Cloud is an enterprise-grade, management platform for Grandstream access points. The cloud platform allows for a user to access the network from the cloud platform remotely from any device. In case of emergencies an IT person could still login to the system should there be any issues that arise outside of normal working hours.

Case Study: Semper Altius School Network



Case Study



GRANDSTREAM

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



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.

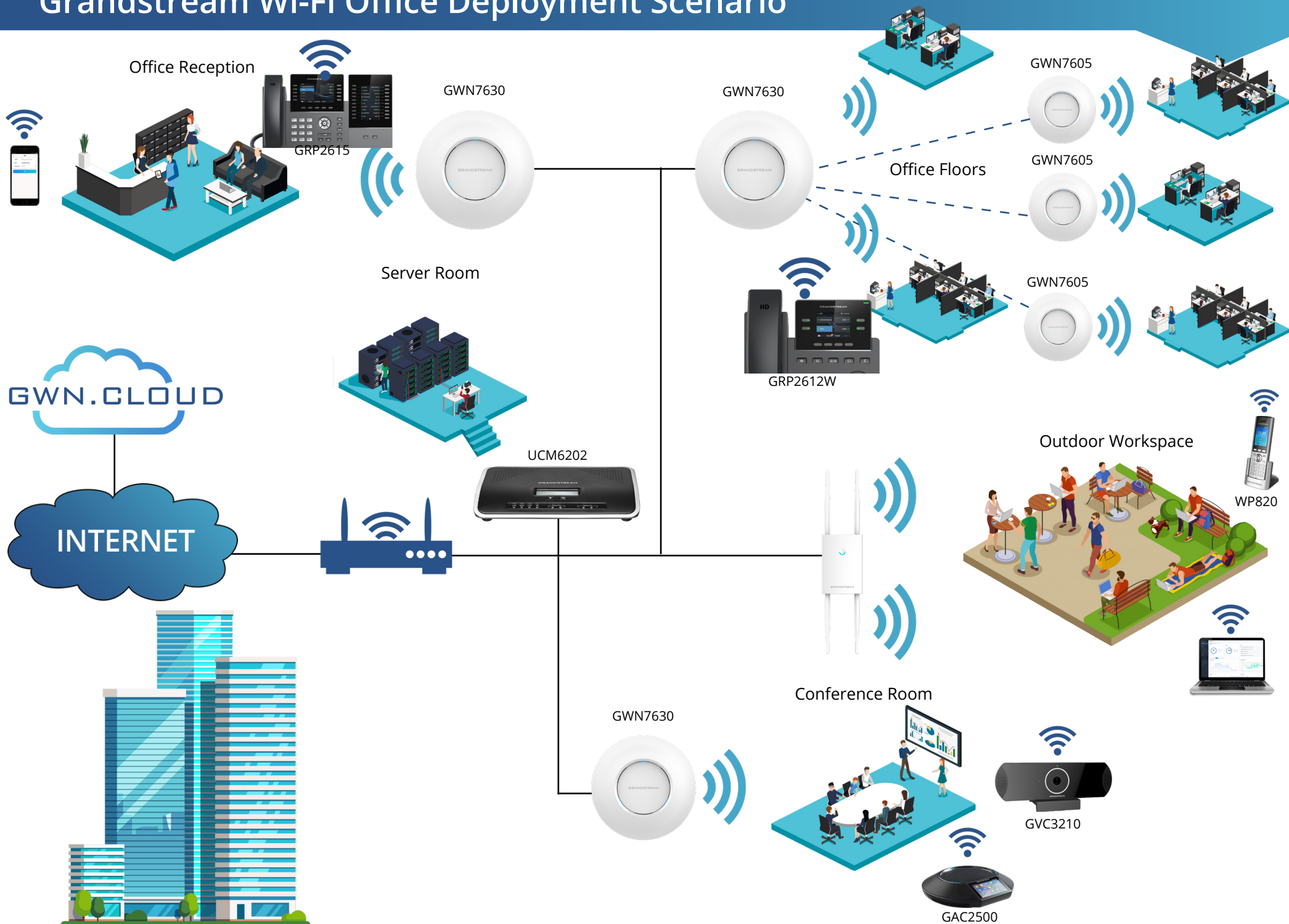


International Network of Schools Relies on Grandstream's UC and Networking Solutions

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Grandstream Wi-Fi Office Deployment Scenario



Office Deployment Scenario Explained

Deployment Strategy:

The Problem:

In this deployment scenario, a company had outgrown their previous office and needed a space where they could grow and had room to continue growing. This led to the company leasing a 6-floor office building. With their increase in both space, and employees they needed to upgrade their communication tools to allow for higher productivity, and a new Wi-Fi network that could handle the number of devices and Wi-Fi activity in the office. They also needed a system that could scale as the company grows.

The Solution:

The office asked their IT department to research a new scalable solution that could handle the needs of the office. The IT department was familiar with Grandstream and their portfolio of products due to previous experience and knew that it would fit within the office budget.

- The IT department worked with a local installer to strategically place access points throughout high traffic areas. They would create a MESH network to deploy a GWN7630 as the Master and GWN7605's on each office floor.
- They also gave each conference room it's own AP to power not only client devices, but communication tools such as the GAC2500 and the GVC3210 to provide a full HD Wi-Fi conferencing solution.
- The office also had an outdoor working space to allow their employees to get fresh air throughout the day and powered the area using a GWN7630LR long-range outdoor Wi-Fi AP.

The Result:

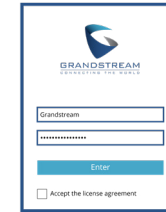
The result of deploying GWN series of Wi-Fi Access Points allowed the offices IT department to easily manage the access points using the GWN Manager an on-premise network management solution. This also allowed for the department to implement key features such as scheduling, guest access, scalability and more. The office saw an increase in productivity and employees enjoyed the ability they had to move their devices throughout the office space both indoor and outdoor without losing any connection.

Key Features



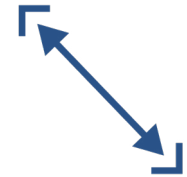
QoS for Voice and Video

GWN series APs include built-in QoS, which makes them ideal for extending VoIP connections through Wi-Fi. With QoS, businesses can prioritize voice and video traffic over their Wi-Fi network, making sure that critical communications are not impacted by general network usage.



Guest Access

Offices with visitors and/or clients can provide guests access to the Wi-Fi network using the Captive portal. A landing page can be set up and provide guests a password that they can use to login ensuring security for the whole office's network.



Scalability

The scalability of the GWN series allows any sized business to grow their network with their business growth. An office network needs to have the ability to start small with maybe one or two APs, but expand in their coverage and capacity as needed without having to overhaul or build an entirely new network. A scalable solution can set up any business for success.



MESH Network

With MESH networks, wireless connection is established between multiple APs, which is used to pass-through data traffic rather than client association. Each AP will evaluate the wireless channels available and route the connection through the fastest available channel. In an office setting, creating a MESH network will allow for organization.

GWN MANAGER

GWN Manager

Some companies don't allow Cloud management platforms due to privacy policies. The GWN Manager is the on-premise version of the GWN.Cloud, allowing for easy management of the access points from Grandstream.

Case Study: Sys Logic

Case Study





GRANDSTREAM

"Adopting Grandstream's GWN series has been a great decision for Sys Logic and our customers. These very high quality Wi-Fi APs have improved our customer's networks while allowing us to provide more at a lower price. A great product combined with Grandstream's local tech support has made the GWN series a success for us."

- Chris Goldsmith, Sys Logic



Sys Logic Relies on Grandstream's GWN series to Provide Powerful & Reliable Wi-Fi Networks



The Customer

Sys Logic Technology Services is a full-service IT consulting and computer repair services firm based in Canton, Texas. In operation since 2004, Sys Logic provides high-quality technology services, including managed IT, networking, hosted VoIP and security solutions, to the municipalities and businesses of Canton and the East Texas Region. They offer highly reliable solutions that enhance functionality and increase cost savings through reliability.

The Need

A central component of Sys Logic's business are the wired and wireless networking services they offer to business, government and hotel customers. Sys Logic was in search of powerful, high-quality and easy-to-deploy Wi-Fi Access Points (APs) that would improve their customer's Wi-Fi networks while actually lowering the cost of a deployment. As their core customers all had varying network requirements, Sys Logic was looking for a manufacturer who offered a full portfolio of Wi-Fi APs that would allow them to build networks for the varying needs of their customers, including maximizing speeds, boosting supported clients, extending range, prioritizing certain traffic such as voice or video, and much more.

Additionally, they needed Wi-Fi APs that offered a seamless installation process, while also being easy-to-manage with centralized network management technology. In order to add value for their customers, they needed to find devices that could do all of this at a lower price point while including network management functionality at no extra cost.

The Solution

Finding a solution that would fit all of their requirements seemed daunting, however Sys Logic found exactly what they were looking for in Grandstream's GWN series of Wi-Fi APs. The GWN series offers a full portfolio of indoor and outdoor Wi-Fi APs that can be customized to suit various needs, are easily deployed through a free mobile app, offer a variety of free management options to suit any size deployment and feature a price point that is less than half the cost of the devices they were previously deploying.

Sys Logic Relies on Grandstream's GWN Series to Provide Powerful & Reliable Wi-Fi Networks

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