

Grandstream's Mobility Solutions



Gone are the days where we sit stationary at a desk all day. The modern workplace features open office environments and working spaces that allow users to collaborate and work away from their desk. In order to cater to the modern, mobile workspace, Grandstream has developed a suite of mobility solutions that allow workers to stay connected and productive no matter where they are. This guide will showcase our WiFi & DECT mobility solutions and show you how to setup and install them.

WiFi Voice

- + Longer Range - utilizes immersive WiFi networks
- + Easy installation - just pair with a WiFi network
- + Easy to scale - just add phones
- Interference - from wireless technologies/network traffic
- Handset cost - WiFi handsets are generally costlier than DECT

DECT Voice

- + Tried and true - relied on for wireless voice for over 20 years
- + Specifically designed for voice
- + Operates on it's own frequency - little interference
- Limited Range - generally 50m indoors and 300m outdoors
- Scaling is expensive and complicated

Mobility with WiFi Voice & Video



WiFi Voice extends access to SIP or VoIP networks through WiFi, rather than through hard-wired connections. Grandstream is one of the only manufacturers that offers everything you need to build powerful WiFi voice and video networks - including WiFi Access Points, cordless, desktop, video and audio conferencing IP phones, WiFi video conferencing devices, a free mobile app and IP PBXs to anchor your network. This guide will focus on implementing the WP820 Cordless WiFi IP Phone to achieve wireless mobility.



WP820 Cordless WiFi IP Phone

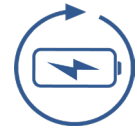
The ideal IP phone for WiFi voice, the WP820 offers a portable, cordless model that enables workers to be mobile and roam around any WiFi facility. It's packed with mobility features including:



Dual-band WiFi



Headsets &
Mobile Devices



Rechargeable
Battery



Dedicated
Push-to-Talk



2 lines,
2 SIP Accounts



HD voice
& dual Mics



GWN series WiFi APs

- GWN7600 - 165m range, 450 clients, indoor
- GWN7610 - 175m range, 250 clients, indoor
- GWN7600LR - 300m range, 450 clients, outdoor



GWN.Cloud WiFi Management

This free cloud platform offers a centralized interface for managing up to 1000 APs. It includes a free mobile app, a suite of real-time reports and analytics, and more.

Connecting the WP820 WiFi



1. On LCD menu, press Menu key and navigate to Settings > Network Settings > Wi-Fi.
2. Set Wi-Fi to "On" and navigate to "Wi-Fi Settings". A list of Wi-Fi networks will be displayed.
3. Select the desired network to connect to. (Enter the correct password to connect if requested)

Building a WiFi Network



The WP820 will be compatible with any WiFi network and any WiFi APs. However, our GWN series of WiFi APs allow you to get enterprise-grade WiFi APs from the same manufacturer as your telephony endpoints, optimized to support WiFi voice. We also offer GWN.Cloud for WiFi network management.

Optimizing WiFi for Voice & Video

There are a few settings available within our GWN series to prioritize voice traffic and ensure seamless WiFi roaming.



QoS - prioritize voice, video, applications or background traffic



WiFi Voice Enterprise - Provides clients with a list of nearby APs to shorten authentication & roaming

PMK Caching and OKC - Eliminate the need to re-verify and authenticate when roaming to a new AP on the same network to shorten authentication.

Connecting WiFi & SIP Networks



It is amazing how simple it is to connect your WiFi and SIP networks to allow SIP to be extended through WiFi.

1. Make sure your APs are on the same network as your on-premise, hosted or cloud PBX
2. Create WiFi network(s) for APs
3. Add WiFi endpoints to WiFi network(s) utilized by APs

Mobility with DECT



Tried and true, DECT technology has been around over 20 years - with good reason too. DECT was specifically designed for voice applications and operates on its own isolated frequency, meaning voice quality only suffers if you leave the range of the base station. More-over, if the range needs to be extended the technology is there to do it in the form of signal repeaters and multi cell systems. Grandstream's DP series provides a full set of single-cell DECT solutions, including base stations, handsets and repeaters. This guide will focus on the DP752, DP730 and DP722 - our latest DECT solutions.



DP730 DECT Handset

This high-end handset offers market-leading range of 400m (outdoors) and 50m (indoors) to allow users to mobilize their VoIP network throughout any business, warehouse, retail store and residential environment.



DP722 DECT Handset

This mid-tier handset offers range of 350m (outdoors) and 50m (indoors) to allow users to mobilize their VoIP network throughout any business, warehouse, retail store and residential environment.



DP752 DECT Base Station

The DP752 is a powerful DECT VoIP base station that pairs with up to 5 of Grandstream's DP series DECT handsets to offer mobility to business and residential users.



10 SIP accounts per system & handset



DECT authentication & encryption



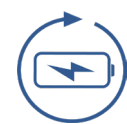
Push-to-talk (PTT)



HD audio & speakerphone



3.5mm headset jack



Rechargeable Batteries

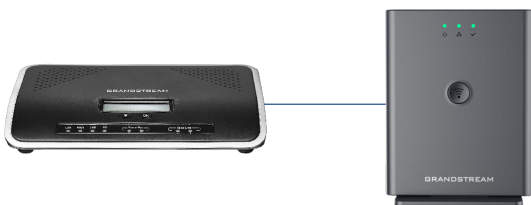
Building a DECT Solution

1. Strategically place DP752 base Station



The base station connects to the SIP network and extends those connections out to DECT handsets wirelessly. The DP752 offer a range of 400 meters (DP730) or 350 meters (DP722). It is important to place base stations centrally to where the handsets will be used

2. Pair DP752 with your SIP network



Register the DP752 to your IP PBX or hosted platform as an endpoint and assign it up to 10 SIP accounts. You can then login to the DP752 webUI to assign those SIP accounts to handsets.

3. Activate Open Subscription on DP752



- Access DP752 Web GUI and press subscribe button
- Or, press the Subscribe/Page button on DP752 base station

4. Pair DECT handsets with DP752



1. From DP730/DP722 main menu, choose Registration > Register.
2. Select "Base 1" and press "Subscribe" key.
3. The handset will search for nearby base stations and will display RFPI code and base station name of the discovered DP752.
4. Press "Subscribe" to pair with displayed DP752.

5. Implement DP760 for extended range



The DP760 DECT Repeater allows users to extend the range of their base station by up to 300 meters outdoors and 50 meters indoors. The DP760 can be automatically or manually associated with a base station. For automatic association:

1. Enable "Repeater Mode" on the DP752 Base Station from the Web UI
2. Power on the DP760 and locate it near the DP752. The DP760 will start blinking to indicate it is searching for a nearby base station
3. When LEDs stop blinking and remain on, the DP760 has been successfully paired.

For more detailed directions and manual association, [click here](#).