



**Unication**

**G-Series Solutions**

# G4/G5 SERIES SOLUTIONS



## STANDARD FEATURES:

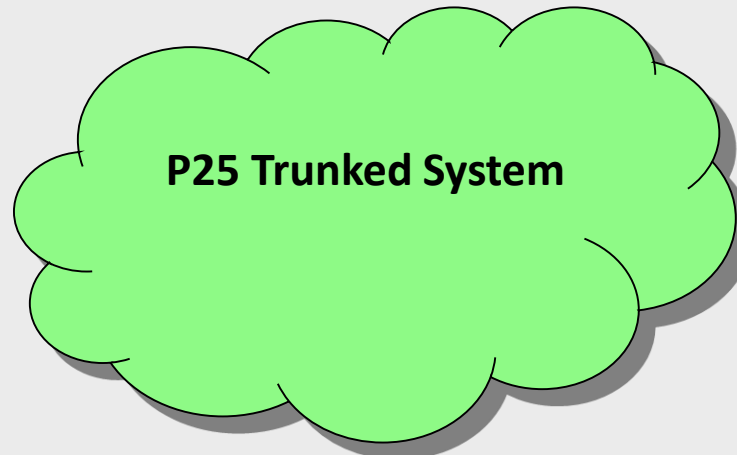
- IP67 Rating- Dustproof & Waterproof, Submersible up to 3ft/30min
- High Impact Resistant Color Screen
- 32 Minutes of Voice Message Storage
- 32 Minutes of Voice Memo Storage
- Up to 128 Channels
- 64 IDs
- Out of Range/ In Range Alert
- Programmable Wav Files for Customized Music and Voice Alerts
- Integrated Bluetooth
- Lithium Ion Battery Pack
- USB For Programming and Charging
- Charger / Amplifier Accessory
- Software Defined
- 2 Year Standard Warranty/ 3 Year Optional Extension Available (5 Year Total Warranty)

# THE G4/G5 SUPPORTS



- Multiple IDs
- Site Trunking
- Full Spectrum Scan
- Linear Simulcast Modulation for Simulcast Applications
- Priority TGIDs
- Multiselect
- 800MHz, 20kHz channel spacing and 4kHz deviation for Direct mode Communications

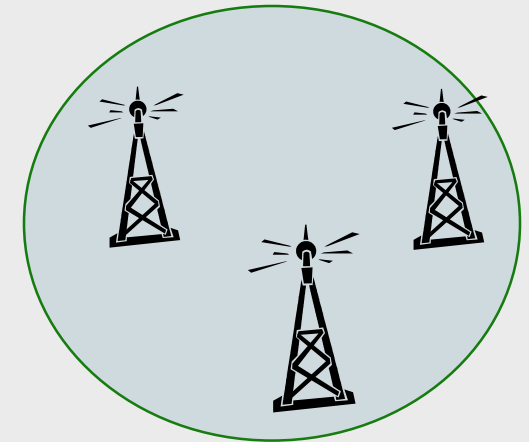
# HOW DOES IT WORK?



Site 1



Site 2

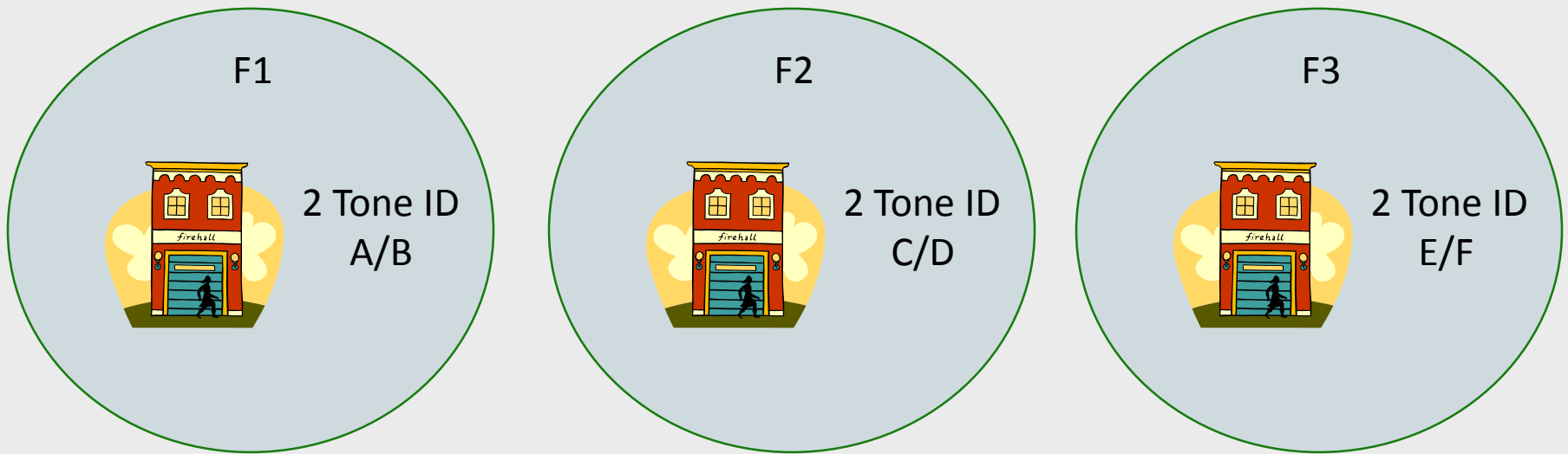


Simulcast Area

- G4 is programmed with Site/Zone Control Channel(s) and TGIDs
- TGIDs are “Forced” to “Critical Sites”
- A Radio need not be Registered/Affiliated to this Critical Site/Zone

# CASE 1- MIGRATE TO P25

## Current Analog Environment



- Three Fire Stations with individual “Tone Out” 2 Tone IDs
- On different RF frequencies, but they could be on a common RF frequency where PL/DPL is used for privacy.
- If on a common frequency, it is possible each Fire Station’s pager may be programmed with each other’s IDs for Mutual Aid reasons.

# CASE 1- MIGRATE TO P25

## New P25 Environment



- Three Fire Stations with individual Talk Group IDs
- The TGIDs are “Forced” to specific sites/simulcast areas , a 2-Way radio is **not** needed at each site for TGID affiliation.
- It is possible each Fire Station’s pager may be programmed with each other’s IDs for Mutual Aid reasons.

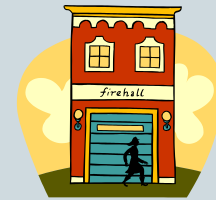
# CASE 2- P25 AND ANALOG - DIFFERENT COVERAGE AREAS



P25 Coverage

TAC Communications  
uses TGID XX

F1



- 2 Tone ID A/B
- TGID XX

- G4 is programmed for 2 Tone ID A/B and TGID XX
- When the G4 is in P25 coverage it listens to the TAC communications on TGID XX

# CASE 3- P25 AND ANALOG CO-EXIST- SAME OR OVERLAPPING COVERAGE AREAS



## P25 Coverage

- TAC Communications uses TGID XX
  - Dispatch Uses TGID YY

## F1



- 2 Tone ID A/B
- TGID XX
- TGID YY

- G4 is programmed for 2 Tone ID A/B ,TGID XX and TGID YY
- G4 can be dispatched on 2 Tone or P25 (TGID YY). Provides for redundant communications solution.
- When at the incident, the G4 listens to the TAC communications on TGID XX



# FAQ'S (FREQUENTLY ASKED QUESTIONS)



## WHAT DOES IT SUPPORT?

- **What systems does the G4 support?**
  - The G4 supports multiple P25 systems, including Conventional, P25 Trunking, and P25 Conventional.
  - The G4 Supports:
    - Multiple IDs
    - Site Trunking
    - Full Spectrum Scan
    - Linear Simulcast Modulation for Simulcast Applications
    - Priority TGIDs
    - Multiselect
    - 800MHz, 20kHz channel spacing and 4kHz deviation for Direct mode communications
- **Does the G4 work on a Phase II system?**
  - Many Phase II systems support Phase I devices, please check with the System Administrator.

## WHAT DOES IT SUPPORT?

- **Can the G4 "scan" a defined trunking frequency (Example: 855.9875, 856.2625, 857.2625, 858.2625)? If so can you scan defined TALKGROUPS on those frequencies?**
  - Yes, TGIDs are assigned along with the Control Channels and Site Information (site information is used to further validate that the pager is assigned to that site(s) in situations where Control Channels are reused in the network). The G4 can be pre-programmed with Control Channels and, when first turned on, will scan for the active Control Channel. Once it is on an active Control Channel it stays there until the Bit Error Rate exceeds a predetermined value.

## HOW DOES IT WORK?

### ■ **How does the dispatch center send out the page?**

- Sending the page is as simple as sending a 2 tone page. The Dispatcher will select the appropriate icon and when they send the page the system will send out the pre-programmed TGID. The Dispatcher can choose to send an Alerting tone like they do for portable radios or not. Once the TGID is sent the Dispatcher can begin sending the voice message.

### ■ **How does the dispatch center activate pagers in the field?**

- The Administrator will “map” the TGIDs to select Sites or Simulcast Zones. The system then “Forces” the TGID(s) to “Critical Sites”.

### ■ **Does the dispatcher have to send an alert call the same way they would ping a portable radio?**

- They could or just let the G4 generate its internal Alerting tone (or wav file).

### ■ **Does this unit require any changes to the communications center equipment?**

- If the Dispatch Center does not currently dispatch on the P25 system a Control Station will be needed.

## HOW DOES IT WORK?

- **Does this unit require any changes to how they would dispatch incidents?**
  - There may or may not be changes. If one already dispatches to P25 Group IDs (directed to Portables and Mobiles) then there probably will be no change required.
- **On an analog radio system we use an encoder to send tones over the radio frequency. In a digital system you have to send data to the pager. How are we sending data to the Pager?**
  - The Dispatching Console, 2-way portable or Mobile sends the appropriate TGID to the G4. The G4 is monitoring the Control Channel and upon detection of a programmed TGID, it will go to the assigned Traffic Channel for the voice message.
- **Don't I need a Portable Radio that affiliates the assigned TGID in order to make the G4 work?**
  - Although this is a good way to initially test the G4, in the final configuration the System will be programmed to "Force TGIDS to Critical Sites" thereby allowing the Dispatcher or a back-up Portable to send messages.

## RELEASE INFORMATION:

- **Will the G4 be available in UHF? VHF? Dual Band? What is the timeframe of these releases?**
  - **Release 1: G4 P25 700-800MHz Voice Pager**
    - 700/800MHz, Conventional, P25 Trunking and P25 Conventional
    - Official Release: 1/1/2016
  - **Release 2: G4 P25 VHF Voice Pager**
    - VHF, Conventional, P25 Trunking and P25 Conventional
    - Anticipated Release: January 2016
  - **Release 3: G4 P25 UHF Voice Pager**
    - UHF, Conventional, P25 Trunking and P25 Conventional
    - Anticipated Release: January 2016
  - **Release 4: G5 Dual Band P25 Voice Pager**
    - VHF/700/800MHz, Conventional, 2Tone, P25 Trunking, and P25 Conventional
    - UHF/700/800MHz, Conventional, 2Tone, P25 Trunking, and P25 Conventional
    - Anticipated Release: Q1 2016

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