



Private IP Push to Talk Communication Over LTE/Wi-Fi

Walkie Talkie
Private and Group Calls

- Voice
- Messenger, GPS Tracking
 - Group Operations





PROMPT WIRED & WIRELESS COMMUNICATIONS

- Founded in 2004
- Based in Cochin, India
- Wireless Radio Services & Communication Technologies
- Engaged in the Business of Wireless Communication, Safety & Security Equipments, Access Control etc..





Industry Trends, Opportunity

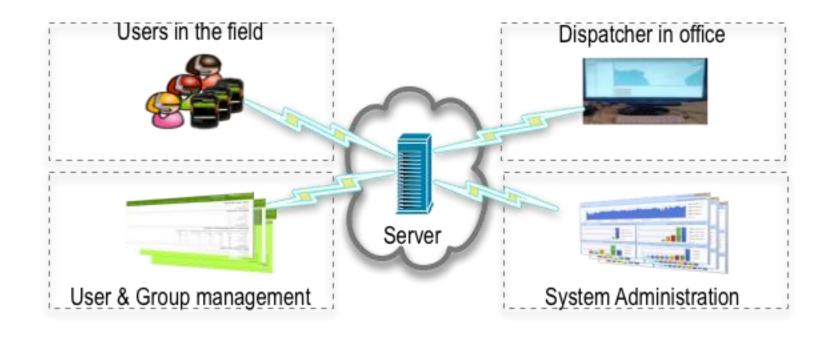
Public Safety LTE & Mission Critical PTT (3GPP Rel 13 and later)

- Global *LMR/PMR market (to be replaced by PUSH ToTalk-type of solutions):
 - USD9 billion annual spending and growing (source: Sepura 2010)
 Currently dominated by proprietary technologies, such as TETRA, APCO-25, MPT-1327 and various analog and digital handsets and trunked solutions
- Public Safety LTE (PS-LTE) deployments has started in large scale; Mission Critical PTT (PTT over LTE) is mandatory part of PS-LTE:
 - USA: USD 7.2 bln government allocation for FirstNet to replace P25 and others by PTT over LTE
 - UK: GBP 1.2 bln allocation to replace TETRA (Airwave) by MCPTT
 - South Korea: USD 840M allocation to replace current TETRA, VHF & iDEN by MCPTT
- This trend will open opportunities in private sectors (=our target)





Functional entities

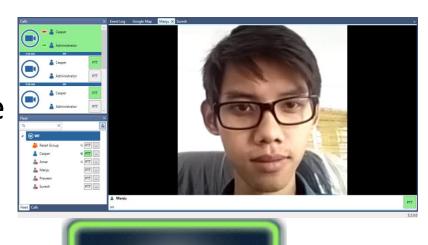






Prompt PTT Pro Ace is for Communication

- Push to Talk Voice Calls
- Messenger. Text, Images and File Exchange
- GPS Tracking
- Legacy system Patch
- Dispatcher Console



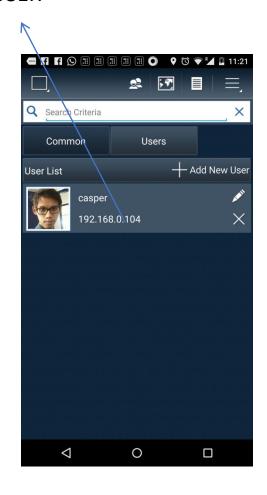
PUSH TO TALK

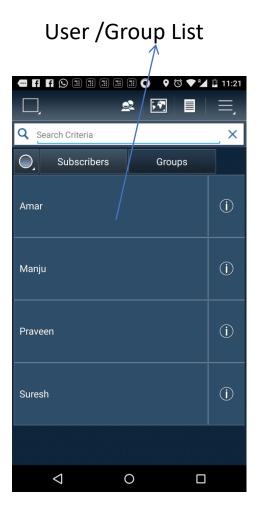


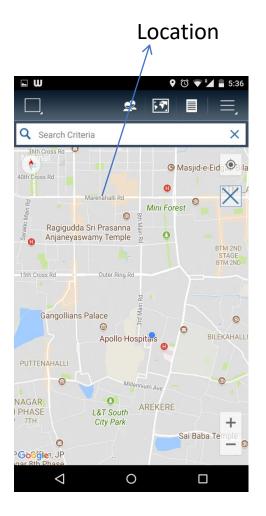


Prompt PTT Pro Ace Client Applications Wired & Wireless Communications

An ISO 9001-2008 Certified Company USER



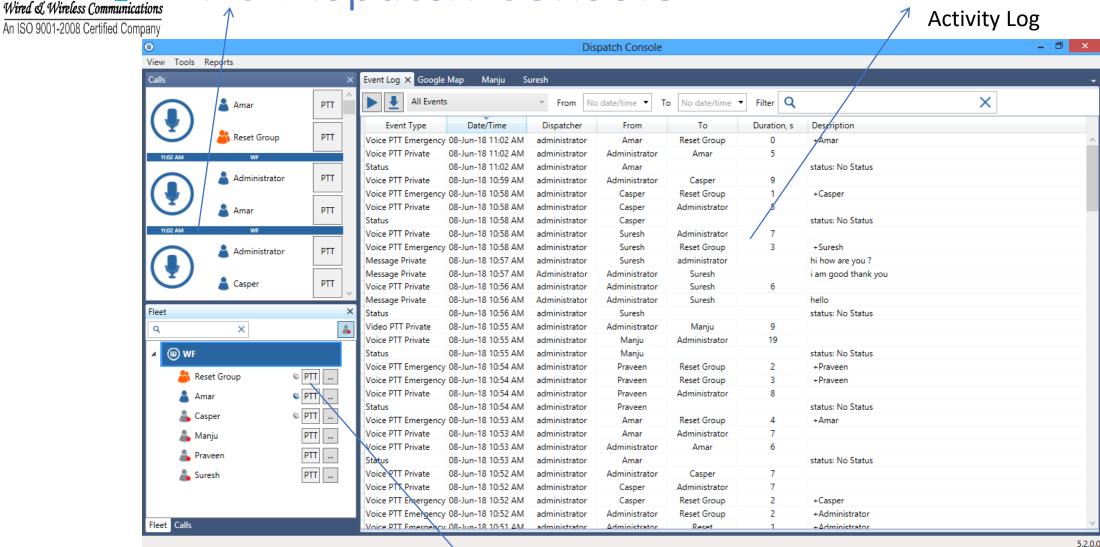






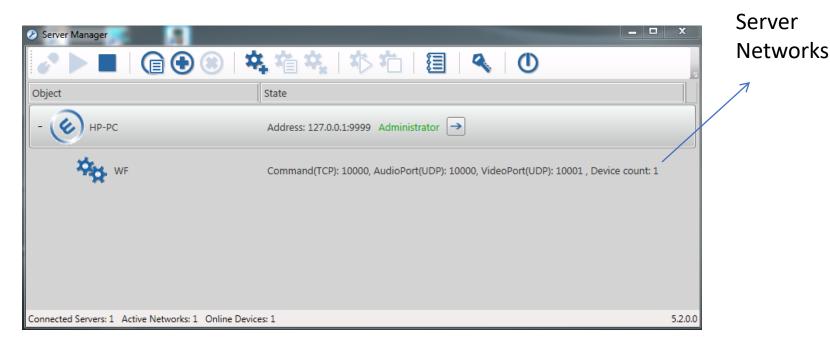


PC Dispatch Console





Prompt PTT Pro Ace Server



- Works on Windows Platform
- Supports multiple communication networks
- Control over dispatchers, users, groups, statuses, etc.





Prompt Push to Talk Voice Calls

- Private and Group PTT Calls
- Everything is recorded
- AES256 encryption



Like professional radio, but:

- Cheaper
- More functional
- Easy to deploy

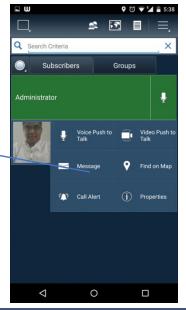




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- Private and Group PTT Video Calls
- Front and rear cameras supported
- Everything is recorded
- AES256 encryption

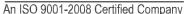
Various Call Options

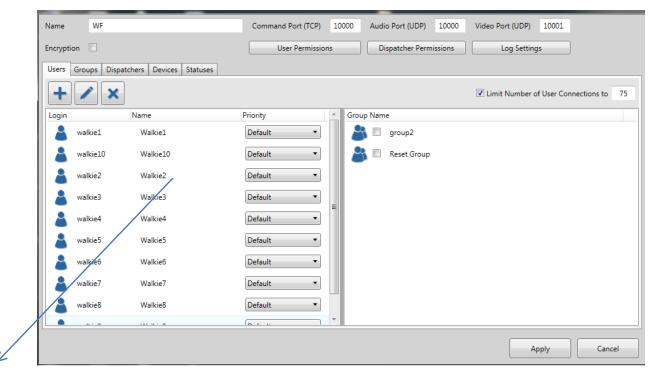


PTT Video Call







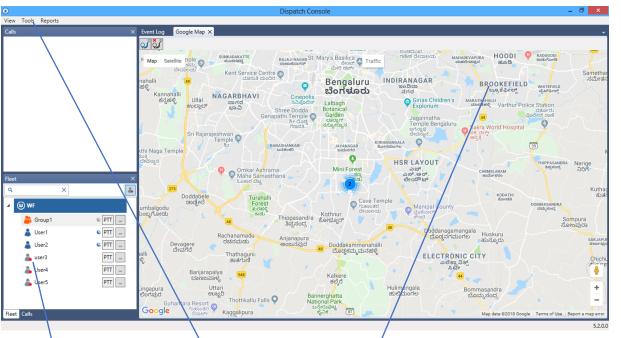


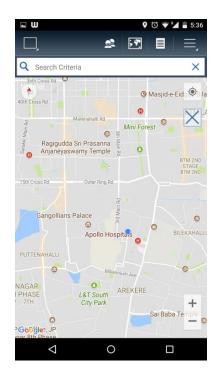
- Group with higher priority supersede group call with lower priority
- Emergency group call is highest priority and supersede any other type of call
- User with higher priority can supersede user with lower priority in scope of ongoing group call



Prompt GPS Tracking Wired & Wireless Communications

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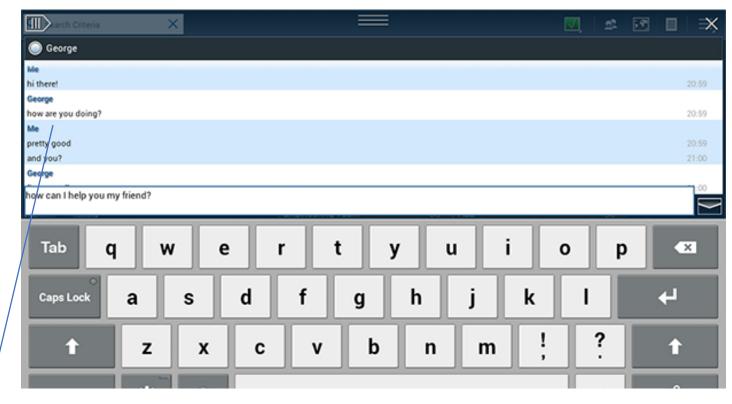


- Google Map and OpenStreetMap Support
- Private and Group GPS Tracking
- Location by request (where are you?)
- Automatic tracking (location every N seconds)



Prompt Extended Messenger Wired & Wireless Communications

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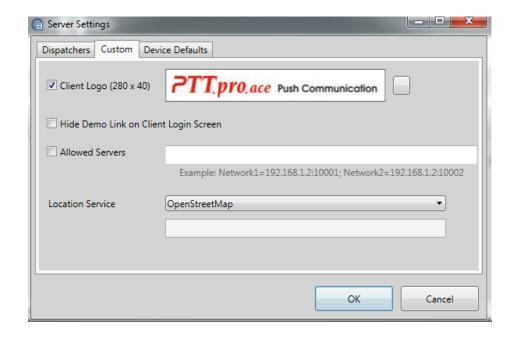


- Private and Group Messages
- Text, Image and File Exchange
- AES256 Encryption





Prompt PTT Pro Ace Customization

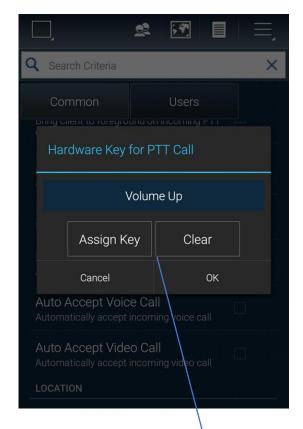


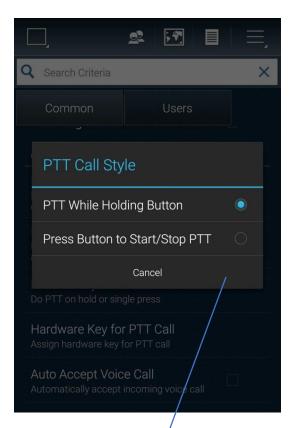
 Custom settings are applied at first login or by predefined files





Prompt PTT Pro Ace Client PTT settings





- Hardware PTT button
- PTT Style Hold or Single Press





Prompt Client for Mobile Devices



- Available for Android Tablets and Smartphones
- Supported in Android 4.0 or higher
- Free download from Play Market





Prompt PC Dispatch Console Functionality

- Control over multiple PTT Pro Ace Networks
- Voice and Video PTT Calls
- Text Message Exchange
- Location tracking (Google Map)
- Location History Tracks
- Call Recordings Playback



- Wi-Fi, Mobile Data and wired extenders to build desired coverage
- In Plant coverage
- Unlimited channels
- All Calls, Broadcast and Emergency calls
- ROIP Patch with Legacy Radios
- Zero Licensing
- Wide/ Unlimited coverage
- ATEX/ IS Options
- Local or Cloud based deployment







Prompt Support for Professional Devices and Wireless Communications Accessories An ISO 9001-2008 Certified Company

- K-Mobile F22, F25, R887 **Smart Radios**
- Sonim XP7
- Hytera 370, 380
- Talkpod etc
- 3G/4G/LTE











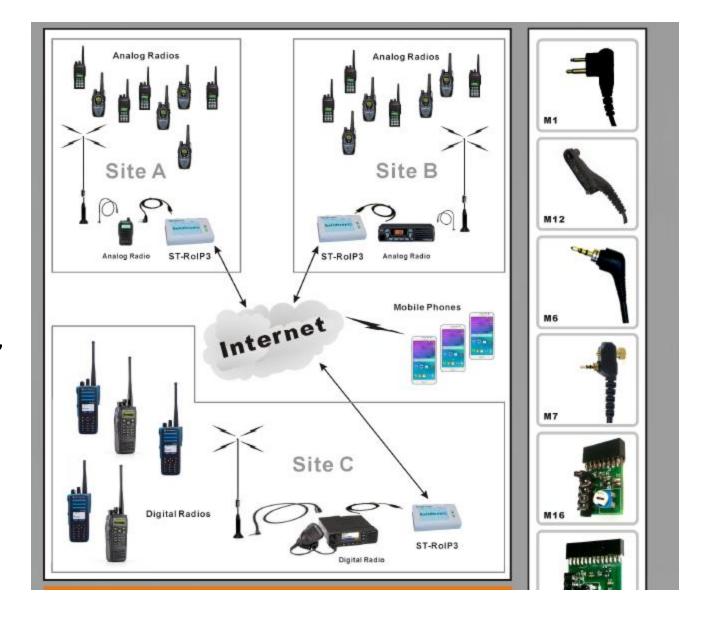
Prompt Patch with Legacy Radios

- Dc 5v
- 600mA
- 10/100 Base T
- ARM
- 4.3" Touch Screen
- Carrier Detection<0.5s
- 450Gms



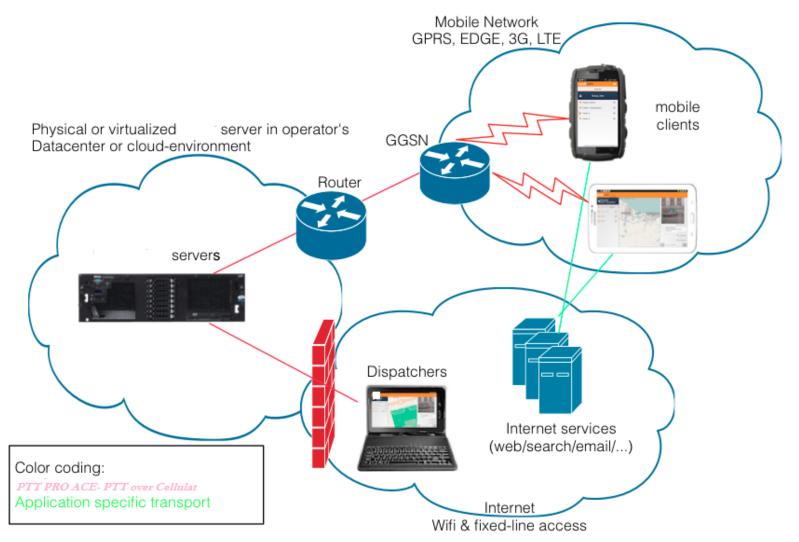


Add disperse networks over IP-Legacy Radio, IP, LTE, 3G





Network





Prompt Audio Speed and Latency

- Server's internal latency <50ms
- Delays in 2G (GPRS) network: (from "mouth to ear")
 - First call: ~3 seconds (PDP-activation takes slighly longer than subsequent calls)
 - Subsequent calls: ~2 seconds
- Delays in in 3G network:
 - First call: ~2 seconds:
 - Subsequent calls: ~1 second
- Delay in LTE-nework: 300-600 milliseconds (Note that setup was non-ideal: no QoS and server outside of core-network which increase delay remarkably)

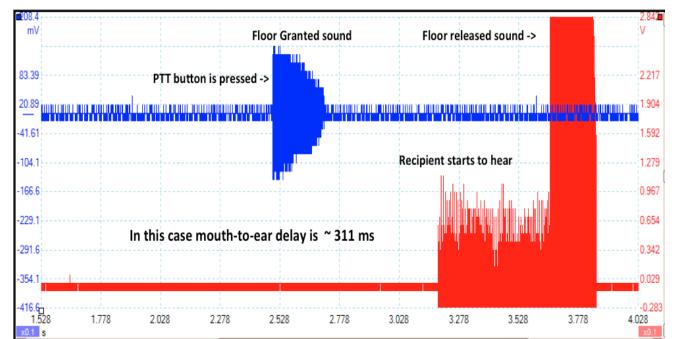


Image left: measurements in LTE-network, from mouth to ear in *LTE-network: 300-600ms

(*Measured in LTE-network, server located outside of core-network without QoS setup)

Delays over Wifi are same level as over LTE.



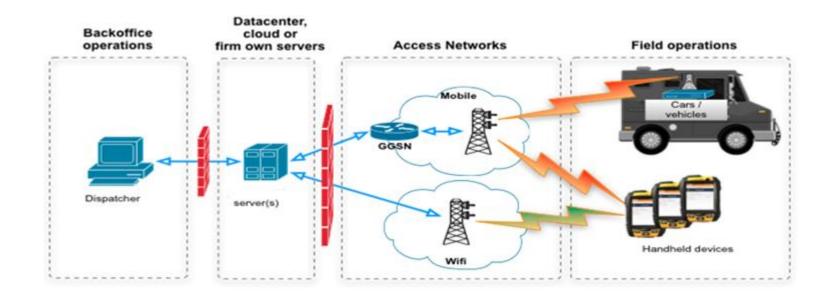
What is Needed? Devices & HW

 For the FIELD: Android based mobile phones and tablets (either a standard or ruggerdized device)

For the OFFICE: Android, Win PC-Dispatchers

For a DATA CENTER: servers to load PTTPROACE control center software.

This can be with physical in house software or virtualized on the cloud







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