



NorCal APCO Chapter Meeting

11/12/2020

Andrew Crawford



MOTOROLA SOLUTIONS

APX PORTFOLIO

APX NEXT

ALL-BAND
SINGLE-BAND
SMART RADIO



APX 8000

ALL-BAND HAZLOC
MISSION CRITICAL



APX 8500



APX 6000

SINGLE-BAND
HIGH TIER



APX 6500



APX 4000

SINGLE-BAND
STANDARD



APX 4500



APX 3000

SINGLE-BAND
COVERT



APX 1000 & 900

SINGLE-BAND
ENTRY TIER
SINGLE-BAND
INDUSTRIAL



APX 1500



07: MULTI-FUNCTIONALITY



E5: COMPLETE FUNCTIONALITY



03: HANDHELD FLEXIBILITY



02: EXTREME USABILITY



ENHANCED APX MOBILE RADIO LINEUP

APX 8500



UNLIMITED MOBILITY
MAXIMUM CONNECTIVITY

- All-band radio
- Built-in Wi-Fi
- Modem tethering
- SmartConnect
- ViQi virtual partner
- Impact detection
- AES/DES encryption
- O2 (green/gray), O3, O5, E5, O7 Control Heads
- Motorcycle configuration
- Multi control heads (4)

APX 6500



STAY INFORMED
STAY SAFE

- Built-in Wi-Fi
- Modem tethering
- SmartConnect
- ViQi virtual partner
- Impact detection
- AES/DES encryption
- O2 (green/gray), O3, O5, E5, O7 Control Heads
- Motorcycle configuration
- Dual control head option

APX 4500



UNCOMPROMISED PERFORMANCE
EFFICIENT OPERATIONS

- Built-in Wi-Fi
- Compact design
- Impact detection
- AES encryption
- O2 Control Head (green/gray)

APX 1500



P25 CONNECTIVITY
EXCEPTIONAL PRICE

- P25 Compatible
- ADP software encryption
- O2 Control Head (gray)

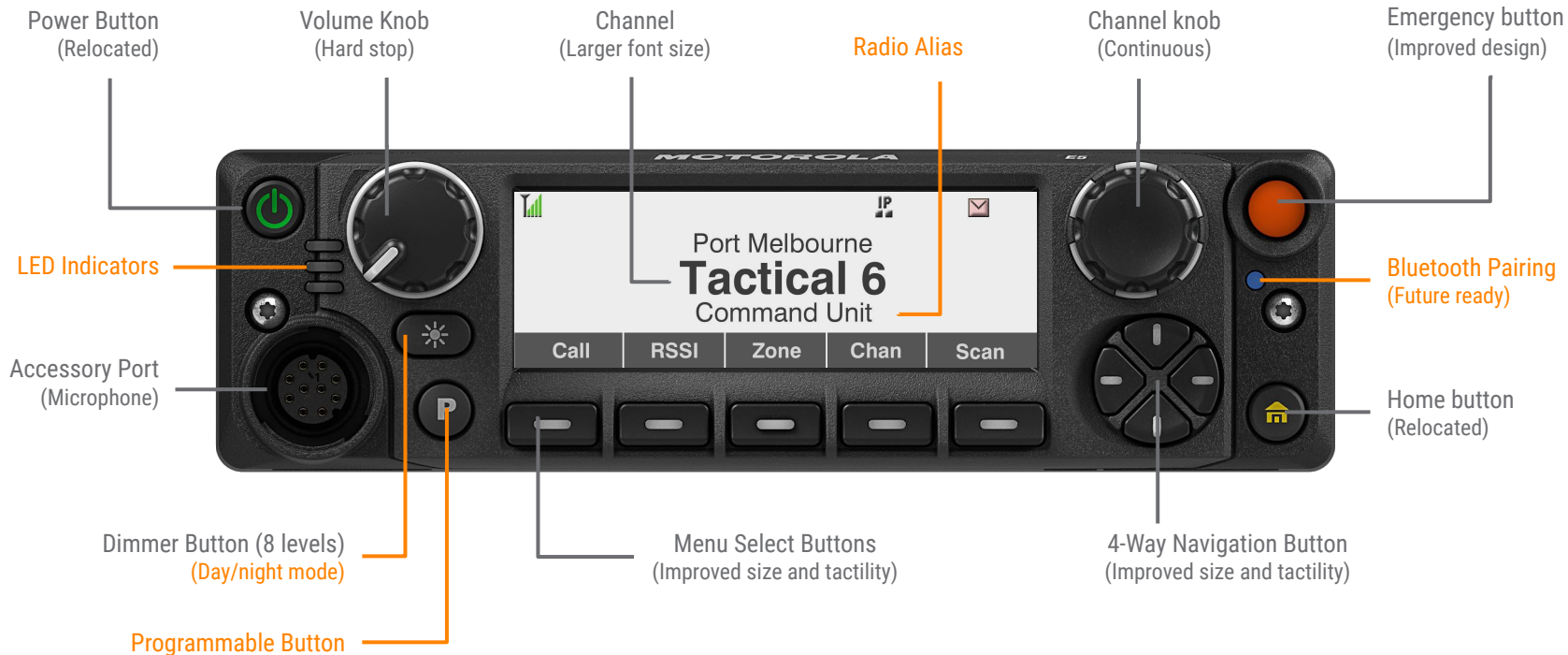


NEW APX E5 CONTROL HEAD

REPLACEMENT FOR O5 CONTROL HEAD



O5 for comparison



- New
- Improved



FM battery cancelation Dec 2020

"NOTICE: As of 18 December 2020, MSI will no longer accept orders for replacement batteries for FM3610_88 radios. The FM3610_88 standard expired in 2012, after which MSI began phasing out production of FM3610_88 radios and associated accessories, such as replacement batteries. Due to normal manufacturing component obsolescence pressures, regrettably, Motorola will no longer be able to build and sell FM batteries beyond the eight-year anniversary of the FM3610_88 expiration. The last date to order Motorola FM batteries is 18 December 2020, and only delivery terms no later than 31 March 2021 will be accepted."

Motorola Depot will not be able to conduct FM repairs/recertification after 2020

- Option to have the radio return unrepaired or repaired as a non FM radio.
- The radio will be returned with all FM certification labels removed if the Depot proceeds with the repair.



APX FM BATTERY CANCELATION

AFFECTED BATTERIES

Cancelled Battery Model Description	Last Order Date	Last Ship Date
APX 6000/APX 6000XE, APX 7000/APX 7000XE, SRX2200		
NNTN8092A BATT IMPRES FM LI ION 2350mAh T	18 Dec 2020	no later than 31 March 2021
NNTN7033A BATT IMPRES FM LI ION 4300mAh T	18 Dec 2020	no later than 31 March 2021
NNTN7035A ASSY,BTRY IMPRES FM NIMH 2200mAh T	18 Dec 2020	no later than 31 March 2021
APX 4000, APX 3000		
NNTN8129AR BATT IMPRES FM LI ION 2350mAh T	18 Dec 2020	no later than 31 March 2021



XTS FM BATTERY CANCELATION

AFFECTED BATTERIES

Cancelled Battery Model Description	Last Order Date	Last Ship Date
XTS5000		
NNTN4437B BATT 1800 mAh FM RUGGED NIMH	18 Dec 2020	no later than 31 March 2021
NNTN4436B BATT 1800 mAh FM NIMH	18 Dec 2020	no later than 31 March 2021
NNTN7453B BATT IMPRES FM LIION 4500mAh T	18 Dec 2020	no later than 31 March 2021
RNN4007AR BATTERY PACK,PREM BATT NIMH 3500 mAh 7.5V IS	18 Dec 2020	no later than 31 March 2021
XTS2500/XTS1500		
NTN9857C BATTERY IMPRES NIMH FM 2000mAh	18 Dec 2020	no later than 31 March 2021
NNTN6263C BATTERY IMPRES NiMH FM IMMERSIBLE 2000 mAh	18 Dec 2020	no later than 31 March 2021



APX NEXT/XE NEW FEATURES



APX NEXT XE OVERVIEW



Black Standard Color

MISSION-CRITICAL DESIGN



XVE500 RSM OVERVIEW



Available in Black



MISSION-CRITICAL DESIGN





SMARTCONNECT MULTI-SYSTEM SCAN

Feature Overview

- Ability to Scan other Conventional & Trunking Systems while on SmartConnect PTT Gateway.
 - Currently radio reduces Multi-system scan list to Priority monitor scan when in SmartConnect.
 - Requirement is to be able to continue to multisystem scan while in SmartConnect

Use Case

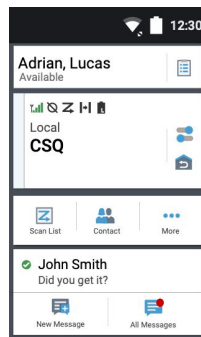
- When the gateway is on the home system the radio can scan to conventional channels and trunked talkgroups on other systems as secondary systems.

Requirements

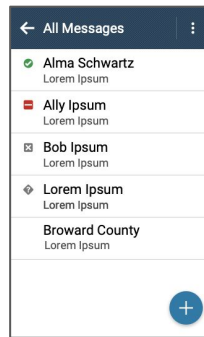
- Included with SmartConnect
- Available on APX BN series and APX NEXT radios

SMARTMESSAGING UPDATES

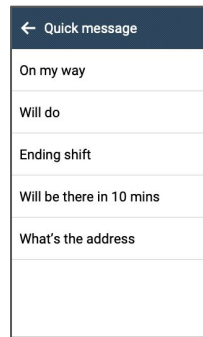
- Deployment in Canada now available
- UI enhancements for improved responsiveness, smooth transitions
 - Radio user presence throughout
 - Unread Message indicator on Widget
 - Canned Messages from the Codeplug



Unread Message
Indication



User Presence
Throughout



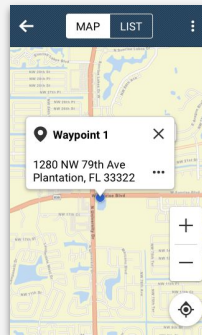
Canned Messages

SMARTMAPPING UPDATES

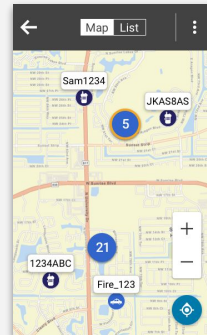
- Iconography enhancements
- Add and edit Waypoints from map
- Show user information
- Clustering



Icons and colors as
defined in CC Admin



Add/edit waypoints
from map



Clustering



ViQi VIRTUAL PARTNER LOCATION INTENTS

Feature Overview

- Users who have a ViQi Virtual Partner Subscription and their device location in the cloud (via SmartLocate or IMW Cloud Connector) can ask ViQi for their location or the location of other units.

Use Case

- Officers who are moving around through backyards, alleys, or in areas with poor visibility can ask ViQi for their location.
- Officers who are wondering if units are in position or where a fellow unit is at can request the specific unit's location from

"Hey ViQi, Where am I?"

"Hey ViQi, Where is unit 347?"



ViQi VIRTUAL PARTNER HOT HITS IN CC AWARE

Feature Overview

- Ability to automatically send ViQi Virtual Partner queries that generate a hot hit to an Aware map with dynamic location.

Use Case

- Officers who run a query that generates a hot hit can automatically send their dynamic location to an intelligence operator monitoring the incident over an Aware map thereby increasing officer safety.
- Intelligence operators can increase their situational awareness of an active situation.



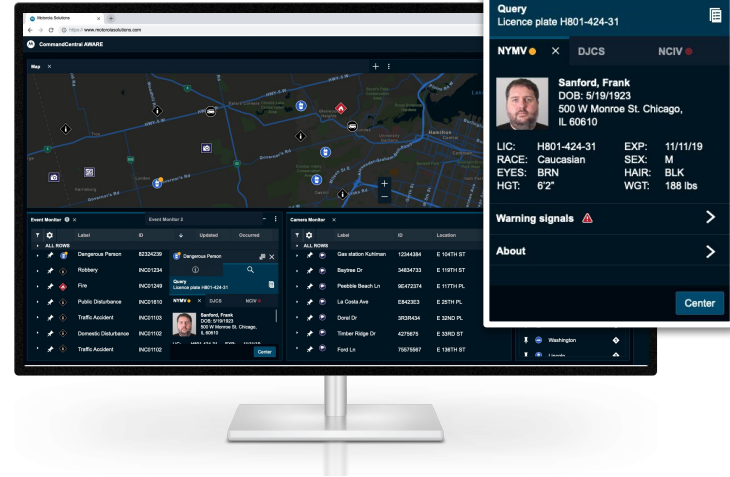
Patrol Officer



"Query hot hit results"



Intelligence Operator



TOUCHLESS KEY PROVISIONING (TKP)

Reduce Time and Effort Spent on Enabling Encryption

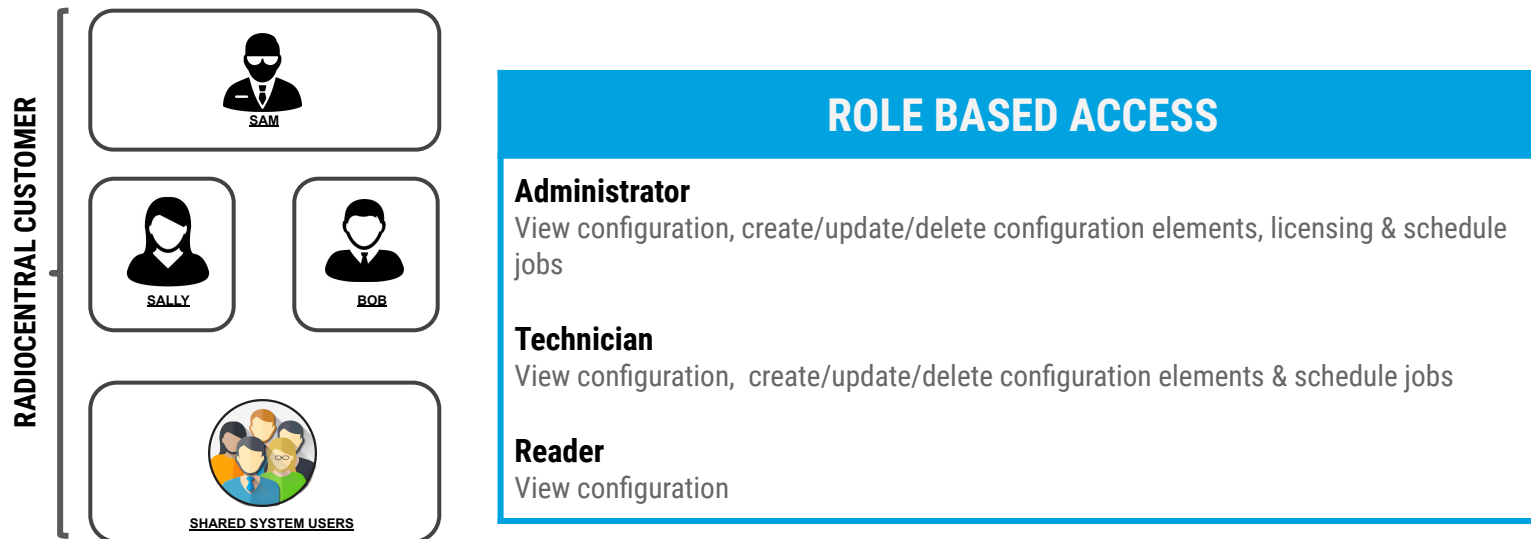
- **TODAY:** requires a KVL to physically connect to each device to enable encryption
- **WITH TKP:** Leveraging RadioCentral, TKP Provides users with *the option* to remove the manual process of loading keys on to APX NEXT through the KVL. Encrypt each device w/ the KMF via OTAR

Requirements

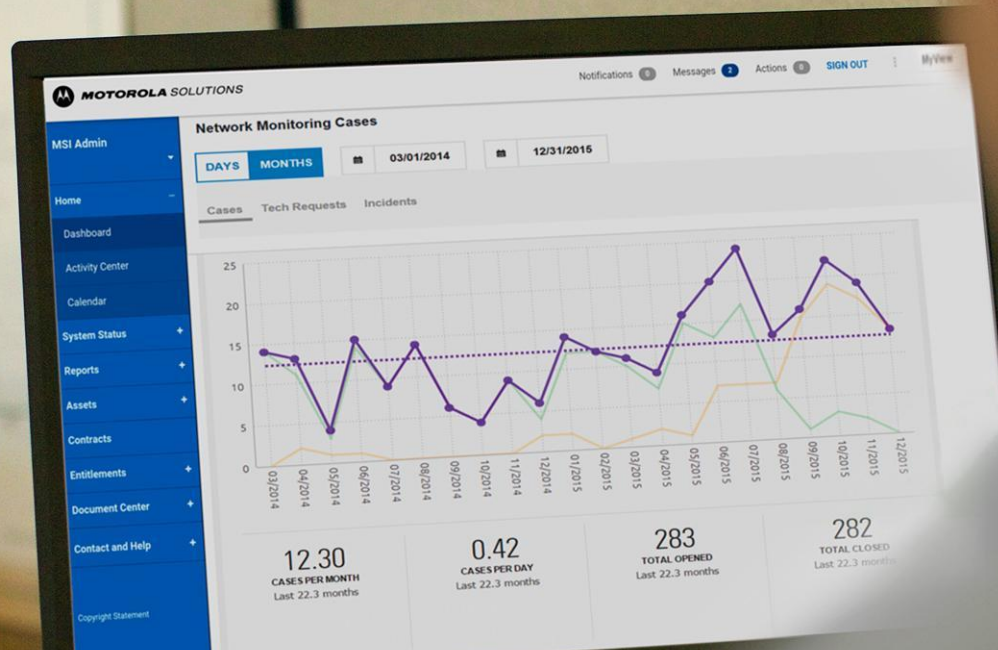
- KMF with license
- OTAR
- For more information, reference [pre-sales training video](#)



RADIOCENTRAL RBAC (Role Based Access Control)



AVAILABLE AS A PREVIEW: Included standard for one full year at no additional charge. During this time Motorola Solutions will be collecting customer feedback before the full market release.



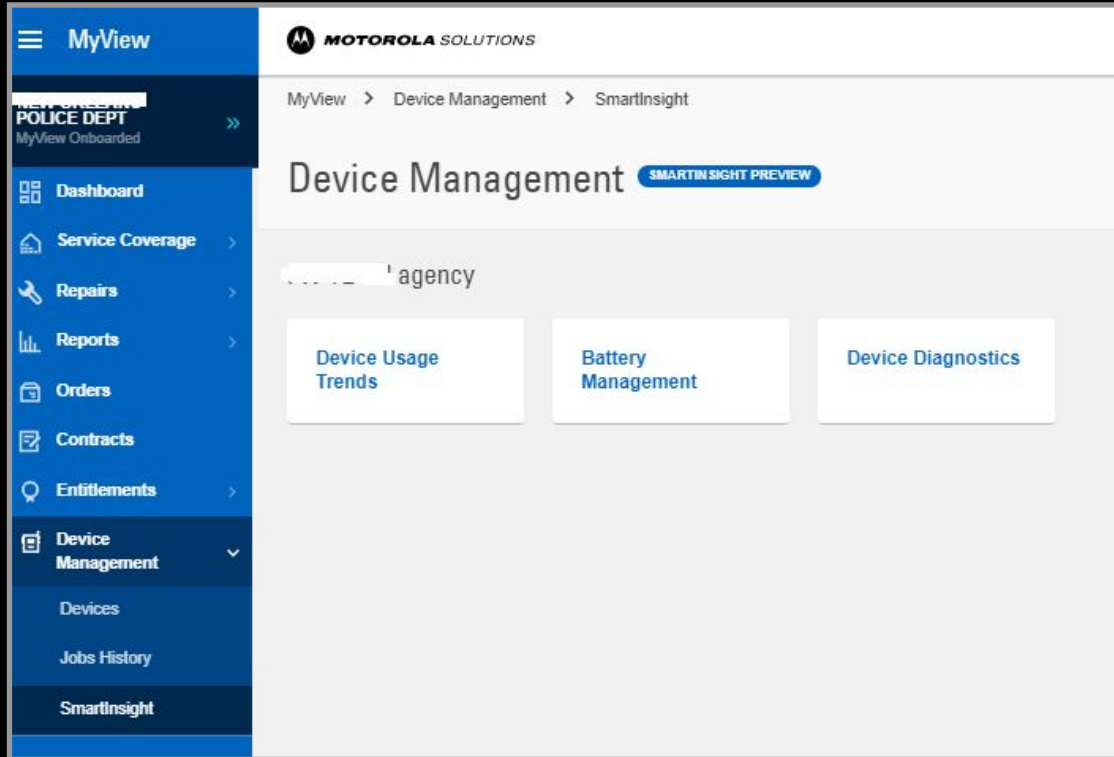
MYVIEW PORTAL

A one-stop resource for all your fleet management assets

- Check your order status
- Download the RadioCentral client
- Access your fleet management database



Locate the SmartInsight Menu



Upon login user will see this window.

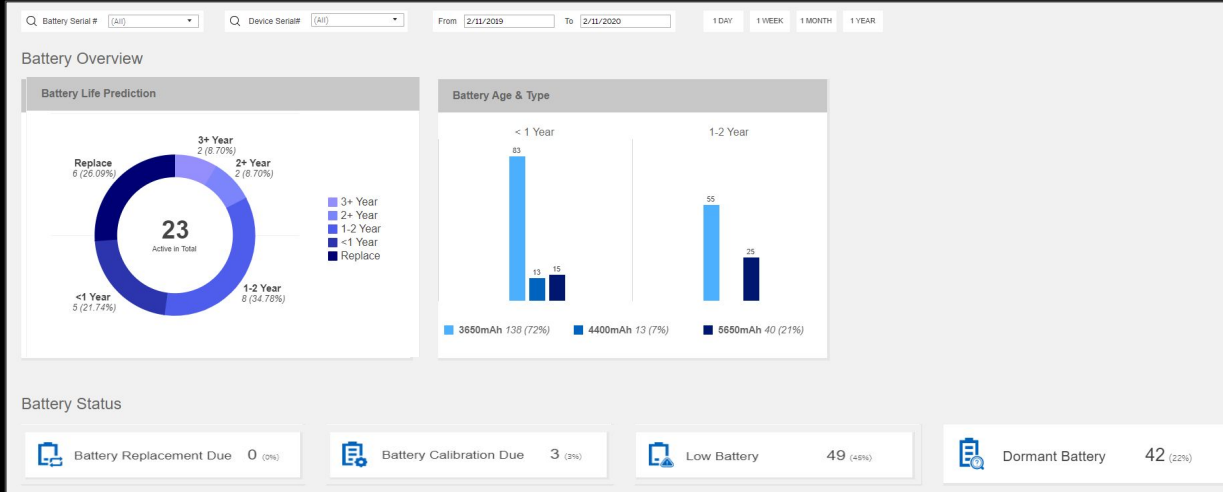
“SmartInsight” menu located in the left column under “Device Management”. (see the red circle)

Selecting the “SmartInsight” menu will reveal the 3 dashboard tiles.

Selection of any tile will route to dashboard view.



Battery Management - Fleet Overview



Key Values

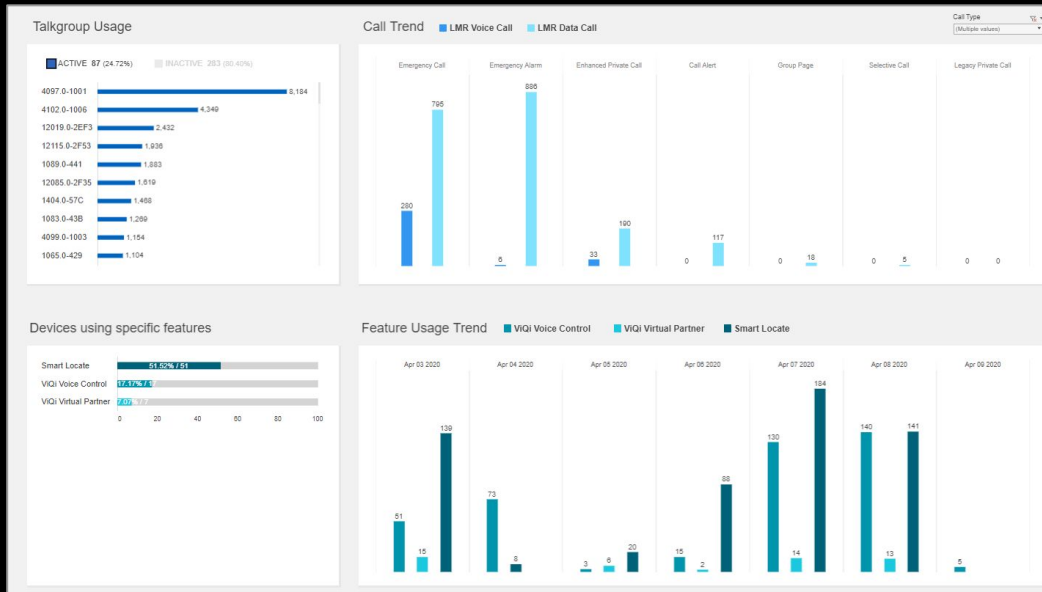
- Define accurate budget plan based on data
- Precise insight to replace batteries only when necessary
- Full awareness of battery fleet health status in a consolidated view

- **Battery life prediction** - Total active battery and remaining life information for the battery fleet, e.g. replace immediately, within 1 year, 1-2 years...
- **Battery Age & Type** -
 - Regular vs. high cap batteries in the fleet
 - Service age.
- **Battery status** -
 - Batteries requiring replacement
 - calibration required
 - Devices experiencing low battery
 - Dormant batteries.

All items can be clicked to reveal further details in a list view.



Device Usage Trends - Talkgroup and Feature Usage



- **Talkgroup Usage** - Talkgroup utilization rate and resource optimization action, e.g. retire a non active talk group.
- **Call Trend** - Itemize different call transactions types in the fleet.
- **Feature Usage & Trend** - Captures which features are being used on which devices and usage trends over time.

Key Values

- Talkgroup and call type usage rate awareness for optimal resource allocation.
- Feature usage awareness to improve training and budget resource planning.



Q&A





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**APX
NEXT**

