

APX™ FEATURE DESCRIPTION: DATA MODEM TETHERING

SUMMARY

This feature allows your APX radios to offload data to a cellular or public safety broadband network.

DETAILS

Your P25 system is designed to keep you safe and in control. Voice calls and mission-critical data (such as GPS) are always prioritized.

That means ordinary data transmissions are not prioritized. When you need to push an update to your radios – such as a new codeplug or encryption keys – you may have to wait, especially if the network is busy.

But this feature allows you to speed up those transmissions, by “tethering” your radios to a vehicle-mounted LTE modem. You can now route non-critical data over a mobile broadband network, improving speed and responsiveness.

Portable radios are connected over Wi-Fi; mobile radios can be connected over Wi-Fi or using a USB cable.

CUSTOMER BENEFITS

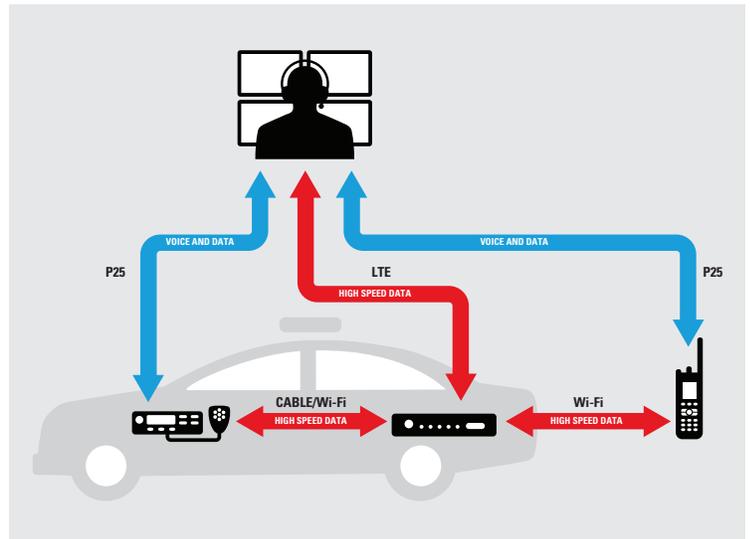
Non-critical data such as radio updates can be delivered more quickly.

DEPENDENCIES

- Portable radios must be Wi-Fi capable: APX 8000, APX 8000XE, or Enhanced models of APX 6000, APX 6000XE and SRX2200.
- Mobile radios can be connected over Wi-Fi or using a USB cable.
- Mobile radios cannot also be connected to a DVRS unit.
- All radios must have firmware release 7.18 or later.
- Motorola Solutions VML750 Vehicle-Mounted LTE Router supports 6 simultaneous connections.
- Sierra Wireless GX440/450 LTE Vehicle Modem supports 1 connection.

COMPATIBILITY

APX 8000 APX 8000XE Optional (Over Wi-Fi)	APX 7000 APX 7000XE NOT AVAILABLE	APX 6000 APX 6000XE SRX2200 Optional (Over Wi-Fi)	APX 4000 NOT AVAILABLE	APX 3000 NOT AVAILABLE	APX 1000 NOT AVAILABLE	APX 900 NOT AVAILABLE
APX 8500 Optional (Over Wi-Fi or cable)	APX 7500 Optional (Cable)	APX 6500 Optional (Cable)	APX 4500 Optional (Cable)		APX 1500 NOT AVAILABLE	



SAMPLE USE CASES

RADIO UPDATES

As part of our APX Device Management Services, we offer a Radio Management service. Whether you're adding a new talkgroup to your system, or upgrading all radios to the latest firmware release, we can handle the experience for you. The Radio Management process is greatly enhanced when you have a broadband connection to your radio fleet. Where once you had to wait for radios to be within range of static Wi-Fi hotspots, you can now use Data Modem Tethering to connect every radio that's close to any of your vehicles.

OVER THE AIR REKEYING

Security is important to you, so you change your encryption keys regularly. You're using the recommended encryption scheme (AES 256) and Over The Air Rekeying (OTAR). Sometimes it takes several days to complete an update. That may not be good enough in a high-threat environment. Data Modem Tethering allows you to route that traffic over LTE and Wi-Fi. You can do a complete system rekeying in less than an hour, and your security is never in doubt.

TEXT MESSAGING

When you are sharing sensitive or detailed information or there is a need for silent communication between individuals or entire teams, a text message is a useful tool. However when your system is busy, voice is prioritized and texts can be delayed. Data Modem Tethering allows you to bypass the busy P25 system, so your messages are passed quickly and efficiently.

DISASTER RESPONSE

All of these scenarios may be useful in everyday situations – but in a crisis they can become essential. Whether you're in the middle of a natural disaster such as a hurricane or flood, or responding to a multijurisdictional terrorist threat in your community, your P25 system needs to prioritize voice call traffic. The time you most need a data link to your personnel is inevitably the time your data bandwidth is the lowest. Data Modem Tethering allows you to use a second network: taking advantage of LTE bandwidth without compromising those life-saving, mission-critical P25 voice calls.



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