Connected Response for Public Safety: Vehicle + Responder

Connected Solutions for **Law Enforcement:** Powered by FirstNet®

As a law enforcement leader, you need effective communication and information access to ensure officer safety. These are essential for delivering situational awareness and providing protection in any scenario. That's why you need **Connected Response for Public Safety on FirstNet**. It modernizes and connects technologies such as FirstNet mission critical push-to-talk solutions, FirstNet 5G-powered routers, and FirstNet MegaRange™.

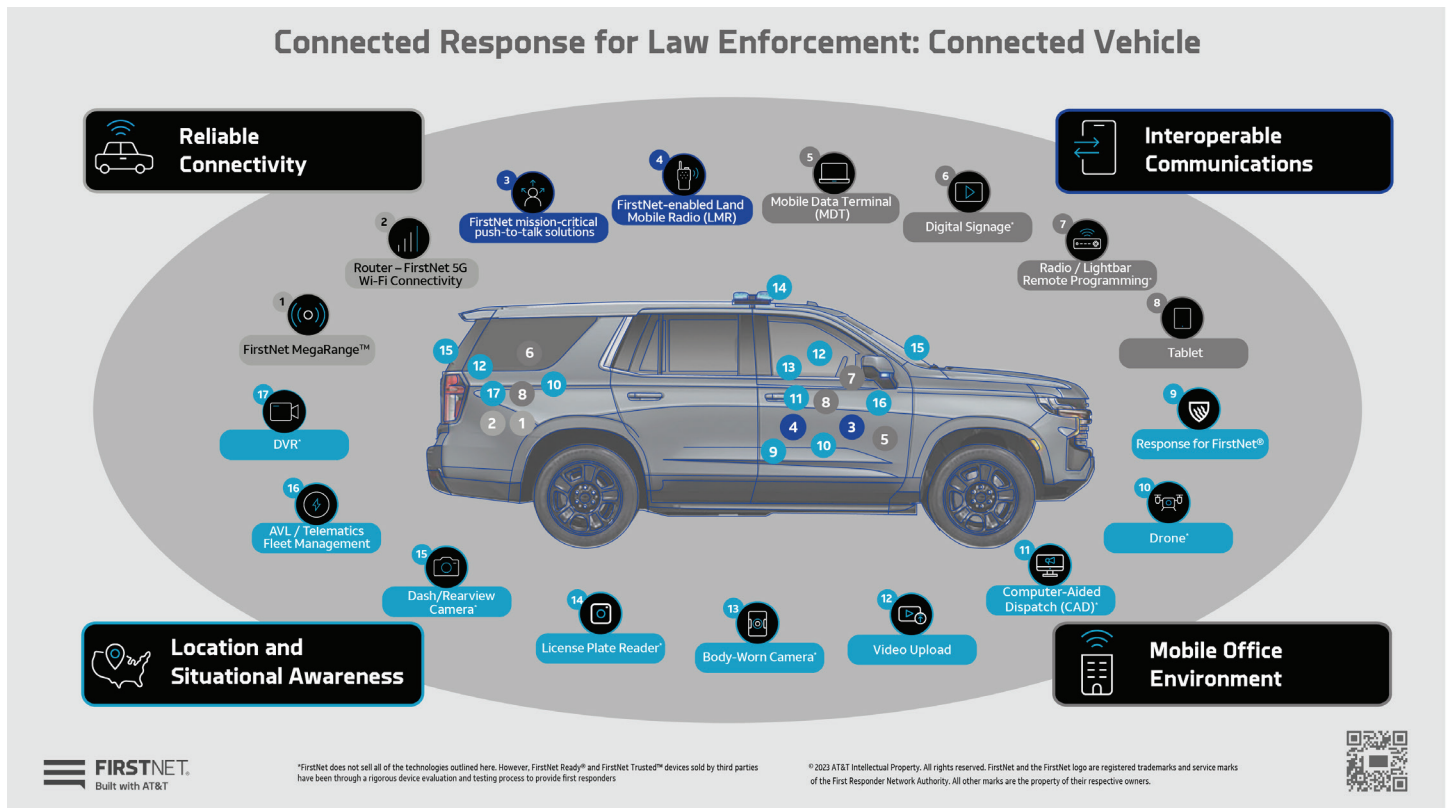**Connected Vehicle and Connected Responder for Law Enforcement offers your team:**

- Robust, prioritized and highly secure connectivity

- A mobile office environment to reduce time spent at the station doing paperwork

- Greater insight into officers' health and wellness for improved officer safety

- The ability to share information — video, photos, data, and voice — in near real-time across agencies, regions and jurisdictions

Whether you choose one of the technologies in the Connected Vehicle/Connected Responder concepts or the whole suite, you'll be helping your officers do their job more safely and effectively.

Core Technologies for Connected Response

While law enforcement agencies can and should choose only the solutions that will most benefit their personnel, these four solutions are the foundation of Connected Response for FirstNet and often a good place to start:

- FirstNet-enabled Land Mobile Radio (LMR)
- FirstNet-connected smart device with mission critical push-to-talk
- FirstNet-enabled Router with 5G Wi-Fi Connectivity
- FirstNet MegaRange™

Connected Response for Law Enforcement: Connected Vehicle

Reliable Connectivity

Interoperable Communications

1. FirstNet MegaRange™
2. Router – FirstNet 5G Wi-Fi Connectivity
3. FirstNet mission-critical push-to-talk solutions
4. FirstNet-enabled Land Mobile Radio (LMR)
5. Mobile Data Terminal (MDT)
6. Digital Signage*
7. Radio / Lightbar Remote Programming*
8. Tablet
9. Response for FirstNet®
10. Drone*
11. Computer-Aided Dispatch (CAD)*
12. Video Upload
13. Body-Worn Camera*
14. License Plate Reader*
15. Dash/Rearview Camera*
16. AVL / Telematics Fleet Management
17. DVR*

Location and Situational Awareness

Mobile Office Environment

*FirstNet does not sell all of the technologies outlined here. However, FirstNet Ready® and FirstNet Trusted™ devices sold by third parties have been through a rigorous device evaluation and testing process to provide first responders

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In an age of dwindling resources and ongoing staffing and retention challenges, Connected Response for Public Safety illustrates how incorporating innovative technology can help enable law enforcement agencies to do more with less.

Reliable Connectivity

1. FirstNet MegaRange™: This high-power user equipment (HPUE) solution helps boost your signal at the edge of coverage for a range of communications and needs.

2. FirstNet-enabled Router with 5G Wi-Fi Connectivity: The foundation of all reliable, robust and prioritized connectivity and communications for Connected Response for Public Safety. FirstNet enables public safety to connect in areas where there's typically little or no coverage and also delivers greater uplink speed.

Interoperable Communications

3. FirstNet mission critical push-to-talk solutions: A public safety-grade group communications service defined by 3GPP Mission Critical standards. Delivers group and 1-to-1 push-to-talk calling; location services to map or call team members; text messaging to groups or individuals; file-sharing of images, video clips, documents and more.

4. FirstNet-enabled Land Mobile Radio (LMR): In augmenting your existing LMR, this technology delivers nationwide coverage and push-to-talk capabilities that allow for far greater interoperability.

Mobile Office Environment

5. Mobile Data Terminal (MDT): In-vehicle laptop providing public safety with mobile office environment capabilities.

6. Digital Signage*: Ability to program vehicular digital signage and digital road signs.

7. Radio/Lightbar Remote Programming*: Remote programming and provisioning of land mobile radio, lightbar features.

8. Tablet: Offers a less expensive and highly versatile, capable and mobile replacement to MDT. Delivers silent notifications to the officer. Enables issuing of e-citations and streamlined incident reporting.

Location and Situational Awareness

9. Response for FirstNet®: A low-cost, simple-to-use web and mobile situational awareness platform for day-to-day and emergency operations. In one deployable solution, users get near real-time mapping, information-sharing, team mobilization, integrated IAP creation, ICS reporting and push-to-talk communication.

10. Drone*: Improves situational awareness in areas or situations where it's difficult or hazardous for an officer to enter or have visibility.

11. Computer-Aided Dispatch (CAD)*: Officers can interact with dispatchers for call information, run license plates, look for wanted persons, and conduct other queries as well as interface with records management systems.

12. Video Upload: Allows for upload, sharing and storage of video from camera systems. Additionally, it can capture plate numbers and compare them to a database of vehicles of interest.

13. Body-Worn Camera*: Improves officer and command center situational awareness.

14. License Plate Reader*: Connects automated license plate recognition system to

15. Dash/Rearview Camera*: Delivers greater situational awareness, safety and after-action reporting.

16. AVL/Telematics Fleet Management: Enables officers to receive faster, more accurate location information and dispatch of the closest available unit. Tracks vehicle health (battery, engine, fuel usage, speed). Can recreate vehicle trips and incidents; and provides intelligent routing.
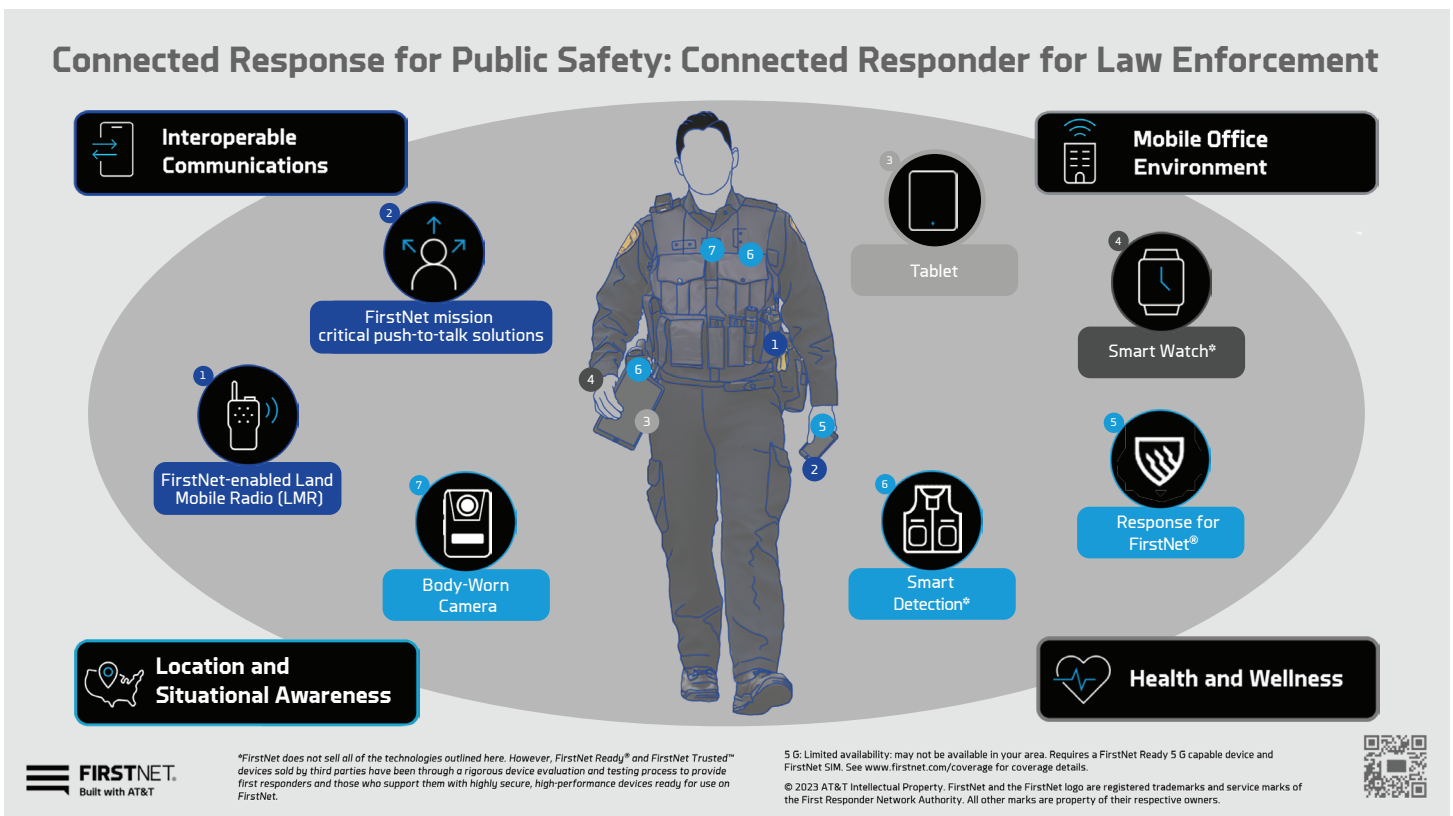
17. DVR*: Records high-quality video from dashcams and other cameras.

FirstNet® Connected Responder for Law Enforcement

While there's a lot a connected vehicle can do, true connectivity means extending capability to *outside* the car – enabling officers to serve safely and effectively at the roadside, in pursuit of a suspect or wherever their job takes them.

That's where FirstNet Connected Responder comes in: These 7 solutions help you:

- Deliver remote, prioritized connectivity to communicate critical information in near real-time
- Use technology to keep officers safer, acting as a force multiplier in times of inadequate staffing or other resource limitations
- Make the officer's job — from administrative duties to aiding a neighboring jurisdiction — easier, simpler and faster.

Connected Response for Public Safety: Connected Responder for Law Enforcement

Interoperable Communications

2 — FirstNet mission critical push-to-talk solutions

1 — FirstNet-enabled Land Mobile Radio (LMR)

7 — Body-Worn Camera

Location and Situational Awareness

3 — Tablet

Mobile Office Environment

4 — Smart Watch*

5 — Response for FirstNet®

6 — Smart Detection*

Health and Wellness

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5 G: Limited availability: may not be available in your area. Requires a FirstNet Ready 5 G capable device and FirstNet SIM. See www.firstnet.com/coverage for coverage details.

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Interoperable Communications

1. FirstNet-enabled Land Mobile Radio (LMR): Turn a local radio system into a nationwide platform using the FirstNet network. Provides additional capability, allowing for failover and system redundancy in the event of an outage. In cases of mutual aid, reprogramming your radio to align with a neighboring agency is simple and quick using over-the-air programming, delivering near real-time communication.

2. Smart Device with FirstNet mission critical push-to-talk solutions: Equips officers with a reliable, robust communication tool that augments LMR and can transmit voice, data and live video. Capabilities also include location-sharing and tracking of officers when out of the vehicle, improving awareness and safety.

Mobile Office Environment

3. Tablet: A less expensive and highly versatile tool that augments traditional in-car MDT, delivering greater capability and mobility for officers. Through FirstNet, officers have connectivity that allows them to file e-citations, communicate with CAD and streamline incident reporting.

Health and Wellness

4. Smart Watch*: Receive notifications of an officer's heart rate, blood pressure and other health markers to identify risks and improve officer wellness. Wearables can also communicate man-down notifications and officers are able to transmit information using voice-to-text.

Location and Situational Awareness

5. Response for FirstNet®: A low-cost, simple-to-use web and mobile situational awareness platform for day-to-day and emergency operations. In one deployable solution, users get near real-time mapping, information-sharing, team mobilization, integrated IAP creation, ICS reporting and push-to-talk communication.

6. Smart Detection*: Communicates body armor notifications and sensors that indicate when a gun or TASER has been unholstered or fired, immediately starting live video and notifying dispatch, supervisors and/or commanders.

7. Body-Worn Camera*: Improves situational awareness, resulting in more effective policing and protection of officers, providing video of incident. Wireless upload of video.

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To learn more, go to **firstnet.com/connectedresponse**, or contact your **FirstNet Solutions Consultant**.