Axon Fleet In-Car Recording Platform

This document details a proposed system design

Agency Created For: **North Richland Hills PD**

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Desgined By:	**Marvin England**
Installed By:	**TBD**
Target Install Date:	**,**

VEHICLE OVERVIEW

SITE NAME	CUSTOMER NAME
Headquarters	North Richland Hills PD

Total Configured Vehicles
- 43   Total Vehicles with this Configuration

Video Capture Sources
- 86   Total Cameras Deployed
- 1   Axon Signal Unit(s) Per Vehicle

Mobile Data Terminal Per Vehicle
- 1   Located In Each Vehicle

Mobile Router Per Vehicle
- 1   Cradlepoint IBR1100 Series

Offload Mechanism
- 4G & WiFi Offload

Evidence Management System
- Evidence.com

Axon Camera

Signal Unit

In-Car Router

Battery Box

SYSTEM CONFIGURATION DETAILS

The following sections detail the configuration of the Axon Fleet system

Vehicle Hardware

Vehicle Hardware	2	Axon Fleet Cameras will be installed in each vehicle
	2	Axon Fleet Battery Boxes will be installed in each vehicle
	1	Axon Signal Units will be installed in each vehicle
	1	Cradlepoint IBR1100 Series router will be installed in each vehicle
	When triggered, the Axon Signal Unit (ASU) will activate the recording mechanism of all Axon cameras within 30 feet of the vehicle.	
Axon Battery Boxes	Each battery box will provide power to its connected camera for up to 4 hours, to allow for video offload while the vehicle is in an off state.	
Signal Activation Methods	A recording trigger will occur when the Axon Signal Unit detects a change in voltage on a terminal. All Axon cameras within 30 feet of the triggered Axon signal unit will begin recording.	
Mobile Data Terminal	Each vehicle will be equiped with a Mobile Data Terminal	
Mobile Data Terminal Requirements	**Operating System:** Windows 7 or Windows 10 - x32 or x64 **Hard Drive:** Must have 25GB+ of free disk space **RAM/Memory:** Windows 7 - 4GB or greater | Windows 10 - 8GB or greater **Ethernet Port:** The system requires the MDT to have one dedicated and available Ethernet port reserved for an Ethernet cable from router. The Ethernet port can be located on an electronic and stationary mobile docking station. If a docking station is used, it is the preferred location for the Ethernet port. **Wi-Fi Card:** The system requires an 802.11n compatible Wi-Fi card using 5Ghz band. **USB Ports:** If the computer is assigned to the officer and does not remain with the vehicle, then the number dongles ordered should equal the number of officers or the number of computers assigned. At least one dedicated and available USB 2.0 port for the Fleet USB dongle USB Port on MDT or Dock.	

Additional Considerations	If the customer has a MiFi hotspot, embedded cellular, or USB 4G, then the customer must purchase a Cradlepoint router with an external antenna and Cradlecare. For agencies that use NetMotion Mobility, Axon traffic must be passed through; such that it does not use the Mobility VPN tunnel. Axon will only be installing 37 vehicles.
Hardware Provisioning	Axon to provide Fleet Cameras, Axon Signal Units and Battery Boxes
	The customer will provide the following router for all vehicles: Cradlepoint IBR1100 Series
	The customer will provide an MDT for each vehicle

In-Car Network Considerations

Network Requirements	The Cradlepoint IBR1100 Series will create a dedicated 5Ghz WiFi network within each vehicle. This network will join the Axon Fleet cameras and Mobile Data Terminal together.			
Network Addressing	**IP Addressing**		**Total IPs Required**	
	Axon Fleet Cameras	86	**172**	
	Mobile Data Terminal	43		
	Cradlepoint IBR1100 Series	43		
Hardware Provisioning	Customer to provide all IP addressing and applicable network information			

4G / Cellular Offload Considerations

Network Considerations	The Cradlepoint IBR1100 Series will be the connection which allows 4G upload of recorded video content.
	The customer will ensure that their cellular contract does not allow for data throttling, or service denial, once a set data threshold is met. Throttling or denial of service will negatively affect Fleet upload capabilities.
	The MDT's 4G connection will facilitate the upload of recorded video content.
Hardware Provisioning	A 2FF-sized SIM card must be provided by the agency and inserted into the Cradlepoint router to provide internet connectivity. Customers will provide all Cradlepoints

WiFi Offload Considerations

WiFi Offload Standards	There will be a maximum of 10 concurrent vehicles offloading at any given time.
	1 servers are required to fascilitate the offload of in-car data to Evidence.com
	3 wireless access point(s) are required to facilitate the offload of data to Evidence.com
	When in proximity, the Cradlepoint IBR1100 Series will connect to the agency's wireless access points an initiate the upload of recorded video content.
Hardware Provisioning	The customer will provide all wireless access points for this installation.
	The customer will provide all servers required for this installation.

Store & Forward Server Considerations

Hardware Provisioning	The customer will provide all wireless access points for this installation.
	The customer will provide the data switch for this installation.
	The customer will provide the server rack for this installation.
	The customer will provide the KVM, monitor and mouse for this installation.
	The customer will provide the Uninteruptable Power Supply (UPS) for this installation.
	Servers will maintain a Sustained Disk Write Speed of 7.57575757575758 MBps.

Network Consideration Agreement

Network Consideration Agreement	North Richland Hills PD acknowledges the minimum requirements for the network to support this Statement of Work.
	All Axon employees performing services under this SOW are CJIS certified..
	If the network provided by North Richland Hills PD does not meet the minimum requirement, or in the event of a requested change in scope of the project, a Change Order will be required and additional fees may apply.

Project Management & Training

Project Management	AXON will assign a Project Manager that will provide the expertise to execute a successful Fleet camera deployment and implementation. The Project Manager will have significant knowledge and experience with all phases of the project management lifecycle and with all application modules being implemented. He/she will work closely with the customer's project manager and project team members and will be responsible for completing the tasks required to meet all contract deliverables on time and on budget.
Training	AXON will provide on-site training to lead the AXON Fleet deployment. End-user go-live training and support: This training provides individual device set up and configuration assistance, training on device use, Evidence.com and AXON View XL.

Axon International, Inc.'s Sales Terms and Conditions
for Direct Sales to End User Purchasers

By signing this Statement of Work, you are agreeing to the items set forth in this document and Axon's Master Services & Purchasing Agreement posted at https://www.Axon.com/sales-terms-and-conditions. You represent that you are lawfully able to enter into contracts and if you are entering into this agreement for an entity, such as the company, municipality, or government agency you work for, you represent to Axon that you have legal authority to bind that entity. If you do not have this authority, do not sign Statement of Work.

Changes to the scope of this SOW must be documented and agreed upon by the Parties in a change order. If the changes cause an increase or decrease in any charges or cause a scheduling change from that originally agreed upon, an equitable adjustment in the charges or schedule will be agreed upon by the Parties and included in the change order, signed by both Parties.

Signature: _____   Date: _____

Name (Print): _____

Title: _____