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1.0 Introduction

1.1 About MX Cloud

MX Cloud is Carmanah's browser-based application to remotely program, configure and monitor MX systems. Upon installation, MX systems will automatically report various data into MX Cloud.

MX Cloud allows users to perform several functions, including:

- User management
- Asset management
- System health and usage data
- Over-the-air updates
- System alerts
- Knockdown alerts
- Historical system data
- Remote programming
- Remote scheduling
- Historical vehicle data (SPEEDCHECK-MX only)
- MX Traffic Analyzer (SPEEDCHECK-MX only)

NOTE Certain features within MX Cloud are tied to your MX subscription tier.

1.2 MX Subscriptions

MX subscriptions come in three tiers.

- 1. MX Lite included with every system for three years. Provides remote visibility of all aspects of your system with actionable alerts.
- 2. MX Plus includes all the MX Lite features + remote programming, 180 days of historical data and enhanced event-specific alerts (system knockdown).
- MX Pro includes all the MX Lite and MX Plus features + remote scheduling to create, edit and set schedules remotely.

For detailed information on subscriptions, see our website - https://carmanah.com/mx-series.



2.0 Initial Setup

2.1 System Commissioning

Refer to the **LEVEL 1** System Planner and **LEVEL 2** Installation Guides to complete the installation of your MX system.

Systems that have yet to be deployed will not be accessible or show further details. These systems will reside on the System Management screen until they are powered on for the first time.

Sy	stem Managemer	it	Q Search M	lame or Serial Number		
	System Name	Status 😨	Local Access 😡	Alert Notification	Last Check In Date	Please select at least one system to use buttons listed down below.
	MX2440053547119 (missing GPS location) Serial Number: 2440053547119	0			AWAITING ACTIVATION	Transfer Ownership Reset Digital Keys Local Access V Alert Notifications V
	MX2440053547354 (missing GPS location) Serial Number: 2440053547354	0			AWAITING ACTIVATION	Launch Bulk Operation Mode Charge
	MX2440053547380 (missing GPS location) Serial Number: 2440053547380	0			AWAITING ACTIVATION	Download Alerts and Events
	MX2440053547418 (missing GPS location) Serial Number: 2440053547418	0			AWAITING ACTIVATION	
	MX2440053547429 (missing GPS location) Serial Number: 2440053547429	0			AWAITING ACTIVATION	
	MX2440053547453 (missing GPS location) Serial Number: 2440053547453	0			AWAITING ACTIVATION	
	MX2440053547624 (missing GPS location) Serial Number: 2440053547624	0			AWAITING ACTIVATION	
	MX2440053547643 (missing GPS location)	0			AWAITING ACTIVATION	

Once powered on, it will connect to the local cellular network and establish communication with MX Cloud, requiring no user interaction. Within a short period, the system will begin reporting to MX Cloud with its respective location, status and programmed settings.



To download the MX Series user manuals, please visit carmanah.com/mxdocs.



To download the MX Field App for local programming and diagnostics, please visit <u>carmanah.com/app</u>. The MX Field App is available free of charge on the Apple App Store and Google Play Store for compatible mobile devices.

2.2 Account Administrator

Every MX Cloud account will be initiated with at least one administrator, an MX Admin. This administrator can invite other users through the self-serve process, as shown in <u>Section 9</u>. The invited user will receive an emailed invitation to create their user profile.

If your organization does not have an MX Cloud account, contact Carmanah. Once your account is created, you will receive an email to set up your MX Cloud user profile as the initial account administrator.





2.3 Logging into MX Cloud

Once you have been invited to join an MX Cloud account, and have completed the profile setup procedure, navigate to the MX Cloud URL here – <u>mxcloud.live</u>.

- 1. Enter your profile email address.
- 2. Enter your profile password.
- 3. Click Sign In to proceed to the dashboard.

earmanah' Abyapantis company MX Cloud™		
Ign in ad latt managing your system: Instrument Instrument <t< td=""><td></td><td></td></t<>		

2.4 Forgot Password

If you have forgotten your password, click the "Forgot your password?" link above the LOG IN button.

- 1. Enter your email address and then click on Password Reset Link.
- 2. Navigate to your email inbox and look for the password reset email. This could be in your spam or junk folder depending on your email provider's settings.
- 3. Click on the link in the email which will open a new browser window or tab. Follow the instructions in the email.
- 4. You will now be taken to the dashboard using your new password.

errmanah" AsynopulTS*contentry MX Cloud™			
Forget your password? There you account wait address below and you will be sert a password reset link. That address Prozent wait address. Prozend Prozet Link	(p) p		
Remember pad passwordf			Â
	·	A A	



3.0 Dashboard

3.1 Overview

You will be greeted with the dashboard once logged into your MX Cloud profile. The dashboard is divided into four sections:

- 1. Navigation bar
- 2. Account and profile information
- 3. Systems and linked systems in table view
- 4. Systems and linked systems in map view

To return to the dashboard, you can click on the Dashboard button in the navigation bar or the Carmanah logo in the upper left corner.



Hover over any "?" icon (?) to bring up additional details.



NOTE

The navigation bar will have more or fewer buttons depending on your user role. See <u>Section</u> $\underline{9}$ for more information.



If you have a warning about an on-site firmware update on the dashboard, see <u>Section 8.1</u> for more information.

Important: You have systems in your account that require an on-site firmware update to continue two-way remote communication.



3.2 Navigation Bar

The navigation bar displays six primary functions for managing MX systems:

- 1. Dashboard takes you to the dashboard where you get an overview of your active MX systems.
- Schedules creating and managing schedules (e.g., for school zone beacon applications; see <u>Section 5</u> and <u>Section 6</u>).
- 3. Subscriptions managing MX subscriptions (see Section 7).
- System Management (MX Admins only) administrative and security management features for your MX systems (see <u>Section 8</u>).
- Users (MX Admins only) managing existing users and inviting new users into your MX Cloud account (see <u>Section 9</u>).
- Analyzer access to MX Traffic Analyzer. Import and analyze vehicle data from SPEEDCHECK-MX radar speed signs (see <u>Section 11</u>).



3.3 Account and Profile Information

The account and profile information area of the dashboard in the upper right corner of the screen will provide the following:

- The unique account number
- The unique account name
- Your user role icon
- Your profile name



Clicking on your profile name will bring up a menu of functions related to your profile:

- Profile
- Change Password
- Your Accounts
- Help & Support
- Feedback
- Sign Out

See <u>Section 10</u> for more information on the items above.



3.4 Systems and Linked Systems

The Systems area of the dashboard lists all active systems in a table view broken down by:

- Standalone MX systems
- Linked MX systems (typically used for a crosswalk) only shows systems that have been manually linked (share the same network parameters) for flash synchronization. Systems that are on the factory default RRFB network will not show under the Linked Systems list. It is recommended to manually link all crosswalk beacons.

ems 3 Alerts 0 Critical Alerts 0	Expired Subscriptions of			< Prev Ne
System Name 🔷	Status 🕑	Subscription 🚱	Operation 🚱	Local Acces
1st and Main Serial Number: 2306015013019	•	MX Plus	8	-
Bay St W Speed Sign Serial Number: 2428099990022	٠	MX Pro	00	-
Central High School Serial Number: 2306015013010	•	MX Pro	High School 2024 ()	•
ked Systems				
ked Systems	Expired Subscriptions			
ked Systems I Alers Critical Alers I Link 🗘	Expired Subscriptions	Subscription 🗣	Operation 🖌	Local Acces
ked Systems Alers Critical Alerts I Link 🗘	Expired Subscriptions	Subscription 🛛	Operation 🗣	Local Acces
ked Systems and Alers Control Alers C Link 🗘	Expired Subscriptions 🔜	Subscription 🕑	Operation 9	Local Acces
ked Systems am [2] Alers Critical Alers 2 Link 🔿	Expired Subscriptions	Subscription •	Operation •	Local Acces

Systems will begin to populate your account on the System Management screen automatically after they have shipped. Once they become active they will move the dashboard. Systems are sorted by their system name. You can change the order from ascending descending at any time by clicking the "up/down chevron" icons ($\land \lor$) next to System Name or Link. Below the system name will be the system's serial number.

To cycle through to the next series of systems, click the "left/right chevron" icons (< >) or number at the top of the list.



You can filter the systems by clicking on any of the following buttons. The numbers shown correspond to the system quantity in each filter.

- Systems shows all systems.
- Alerts shows only systems with one or more alerts.
- Critical Alerts shows only systems with one or more critical alerts.
- Expired Subscriptions shows only systems with expired subscriptions.





Each system will display its current:

- Status
- Subscription tier
- Operation mode
- Local access status



Systems that have expired subscriptions will be grayed out and are not accessible. A new subscription must be applied to the system to access it in MX Cloud. See <u>Section 7</u> for more information.

Clicking on a system name or serial number will take you to the system's details screen. See <u>Section 4</u> for more information.

Status

Indicates whether the system is operating as intended or not. Depending on the system status, the icon will turn green, yellow, red, blue, or gray. The number inside the yellow or red circle indicates how many alerts/faults that system has.

If all fault conditions are removed, the system will automatically turn green, indicating the system is operating normally.



Subscription

Indicates the type of subscription that is applied to the system. See Section 1.2 for more information.

MX Lite	Get actionable alerts and a network-wide view of your systems.
MX Plus	Make changes to your system settings and access data from anywhere.
MX Pro	Create, edit, and set schedules in bulk and on-the-fly.
EXPIRED	Subscription is expired.



Operation

Indicates which operation mode the system is currently running. See <u>Section 4.7</u> for more information.

Beacon Operation ON Always On The system has been set to always on, and the beacons will flash 24 hours a day. E Dusk-to-Dawn The system is set to operate between dusk and dawn only. H Trigger/Standby The system is set to operate by a push button or trigger. Trigger with Notification The system is set to operate 0.0 by an external trigger or sensor. Each activation will generate a system notification. Radar Speed Signs 2026 (i) High School 202 Schedule The system is set to schedule mode, and a schedule has been applied. The name of the assigned schedule will appear. Current Scheduled Status : Beacon Off Stealth **Upcoming Events** SpeedCheck (Speed Sign) Operation **Upcoming Events** ON Continuous The system has been set to continuous Time Event Time **Operating Mode** mode, and the display will operate 24 hours a day. 2025-05-07 15:00:00 25 Zone 2025-04-16 15:00:00 Beacon On Stealth The system is set to stealth mode, which ٩ 2025-05-07 15:30:00 Stealth turns the LED display off (incoming vehicles' speeds 2025-04-16 15:30:00 Beacon Off won't be displayed) but vehicle speed data will still be 2025-05-08 08:30:00 25 Zone 2025-04-17 00:00:00 Beacon Off collected. 2025-05-08 09:00:00 Stealth 2025-04-17 08:30:00 Beacon On Schedule The system is set to schedule mode, and a 2025-05-08 12:00:00 25 Zone schedule has been applied. The name of the assigned 2025-04-17 09:00:00 Beacon Off 2025-05-08 13:00:00 Stealth schedule will appear. 2025-04-17 12:00:00 Beacon On 2025-05-08 15:00:00 25 Zone Demo The system is set to demo mode, which 2025-04-17 13:00:00 Beacon Off generate its own vehicle data for demonstration 2025-05-08 15:30:00 Stealth purposes.

NOTE

Hovering over the "i" icon for a schedule will bring up the current status and upcoming events scheduled for that system.

Local Access

Indicates whether local pairing is enabled or disabled. See Section 8.6 for more information.

- The system is unlocked and can be accessed in the field by pairing and connecting to a system using the MX Field App.
- The system is locked, and local access is restricted to authorized MX Cloud Users.



3.5 Map View

The map view area of the dashboard will automatically adjust and create a "geofence" around the perimeter of all active systems within the account. Each time a new system is commissioned, the map will automatically change the default map view to show all active systems.

Each system is represented on the map by a "pin." These pins signify the system's location and will be colorcoded with their current system status. Hovering over each pin will provide quick information regarding the system. Clicking on a pin will bring you to the system's details screen.



- The options in the upper right corner provide a satellite view versus the default map view.
- The icon in the upper right corner () provides a full-screen option for the map. Once in full screen, you can use the "plus" () or "minus" () buttons to zoom in or out on the map. This is useful when viewing a cluster of systems on one site. Alternatively, you can zoom in or out at any time using your mouse's middle scroll wheel.
- To bring up Google Street View for each location, drag the "Pegman" onto the desired location.







4.0 System Details

4.1 Overview

The system's detail screen provides additional information and remote programming options, if applicable.

A hierarchy will be displayed on the left panel of the screen with the following:

- System name
- Power module and serial number
- All flasher modules and their respective serial numbers

If your system is manually linked with one or more additional systems, they will also show in this panel. Clicking on any system in this panel will allow you to view each individual system without having to backtrack to the dashboard.

The map will focus on the location of this individual system and can be manipulated in the same manner as on the dashboard.

Dathboard > Central High School Name Status @ Central High School • 2 consider module • Send Number: 2000 5010010 • MX Reacon Module • Send Number: 2000 15010048 •	Map - sila St. :dward St. Coopelia Wilson St. Keybourd sharton	19. 19. 19. 19. 19. 19. 19. 19.	Central High School Serial Number: 2306015013010 Subscription MX Pro Refresh System Data Last Update: a minute ago	System GPS ~ Operation • Local Access • Mgh School 2024
	Alerts Alert Type	Status Charts System Information	Event Log Settings Notes	Date
		No recent a	lerts	

Central High Schoo	System GPS \checkmark	
Serial Number: 2306015013		
Subscription @ MX Pro	Operation @ High School 2024	Local Access 🗿
Refresh System Data Last Update: 8 minutes ago		

NOTE

GPS accuracy will vary. Pinned location is not an exact representation of actual system location. Use Refresh System GPS as required for an updated location.



System Name

Click on the pencil icon (\swarrow) next to the system name to change its name and application icon:

- 1. Choose the new system name (limited to twenty characters).
- 2. Choose the application icon:
 - a. Crosswalk
 - b. School Zone
 - c. LED Stop Sign
 - d. LED Chevron
 - e. LED Warning Sign
 - f. Radar Speed Sign (automatically set for SPEEDCHECK-MX systems)

Edit System System's Current	Name and Icon Name : Central High School	×			
New Name New Icon	Central High School School Zone		SCHOOL SPEED LIMIT	STOP	
	Update Cancel		WHEN FLASHING		

The application icon will show for each system on the system's detail screen and on the dashboard for quick reference on the type of system deployed. If an application is not assigned, you will see an icon with a question mark.

Subscription

Shows the current subscription. Systems with MX Lite or MX Plus will have a hyperlink to upgrade to a higherlevel subscription. Clicking on this will take you to the Subscriptions tab. See <u>Section 7</u> for more information.

Operation

Shows the current operation mode. See <u>Section 4.7</u> to change this mode as required.

Local Access

Shows whether local access is locked or unlocked. See Section 8.6 for more information.

Refresh System Data

When required, manually refresh the system data by clicking the Refresh System Data button. This is particularly helpful when troubleshooting. This will request new data from the system which will be shown on the Charts tab. See <u>Section 4.4</u> for more information.

- MX Lite 30 refresh per month/system
- MX Plus/Pro unlimited refreshes



Systems with MX Lite/MX Plus subscriptions have one scheduled update per day while systems with an MX Pro subscription have scheduled updates every 15 minutes.



Refresh System GPS

When required, you have the option to manually refresh or override a system's location using the System GPS button. This is useful if the system has been moved or the GPS location is incorrect.



Refresh GPS Location

This will request a new GPS fix from the system.

	① Waiting for update confirmation.
-	

Override GPS Location

This will allow for selecting the location you want the system to be placed.

- 1. Zoom in on the map. Green pin is where the system thinks it is currently.
- 2. Click on the location you wish to place the system. Pink pin is the new location of your choice.
- 3. Click on Override GPS Location.

The system will now be placed in the location chosen. If the system reports in a new GPS location, such as done during a power cycle, the system will automatically adjust and replace this manual selection.





4.2 Additional Information Tabs

Along the middle of the system's details screen will be additional functions:

- Status
- Charts
- System Information
- Event Log
- Settings
- Notes

	Status	Charts	System Information	Event Log	Settings Not	tes	
Alerts							
Alert Type			Alert		Status 🕑	•	Date
			No recent a	orts			
			No recent a				

4.3 Status Tab

The Status tab will be selected by default each time you click on a system. This will show if there are any active alerts for this system. If there are multiple alerts, they will be listed chronologically with the newest at the top. The status of the system will change to yellow or red depending on the severity of the alert(s) detected.

- Yellow = alert (abnormal condition)
- Red = critical alert (system not operating as intended)
- Blue = on-site firmware required (two-way communications unavailable)

If the alert is cleared or rectified, it will be removed from the Status tab, and a record of this will be reflected in the Event Log.

	Status	Charts	System Information	Event Log	Settings	Notes	
Alerts							
Alert Type			Alert			Status 😗	Date
System Fault	System Central Hig fault: The system h	tem Central High School (Serial Number: 2306015013010) reported a It: The system has experienced a knockdown or severe impact.				•	2/26/2025, 4:06:49 PM PST



Alerts will not show in MX Cloud or via email/SMS notifications until the system has greater than 24-hours of runtime.



4.4 Charts Tab

The Charts tab provides current performance and historical system data. Information on this screen varies depending on the:

- System model
- Subscription level
- Solar or AC power source
- Operation mode

The following information may be displayed for the system. This information reflects the last reported value as shown in each performance card or under the Refresh System Data button. Click on Refresh System Data to receive new data as required.

- System or battery voltage
- Solar panel voltage
- Charge current
- Yesterday's activations (Trigger/Standby mode only)
- Today's activations (Trigger/Standby mode only)
- 30-day activation average (Trigger/Standby mode only)
- Vehicles yesterday (SPEEDCHECK-MX only)
- Average speed yesterday (SPEEDCHECK-MX only)
- 85th percentile yesterday (SPEEDCHECK-MX only)
- System temperature
- Cellular signal strength
- Cellular signal-to-noise ratio

NOTE Hover over each performance metric for a detailed description.

o 13.64 ¹⁵ Battery Voltage (1) 2 hours ago	Status Charts System Information	n Event Log Settings	Voltage from battery. Normal voltage range 11.7 - 14.8 V. Battery Voltage (V) 3 hours ago	
756 Activations (yesterday)	495 Activations (today) 21hours age	7552 Activations (30 day avg)	1st and Main Serial Number: 2306015013019	System GPS V
48.2 System Temperature (*) 2 hours app	-110 -73 Cellular Signal Strength (Bhurs ago	15 30 Celular Signal to Noise Ratio (dit) Bhors ago	MX Plus Diggrade	

NOTE

Activation count is calculated by the total activation time divided by the flash duration set. Systems that are linked together will yield a result of all combined activations.



MX Plus and MX Pro subscriptions will have access to 180 days of historical information. MX Lite systems will only show the last reported data points.



MX Lite chart section



MX Plus/Pro chart section

Hover over any data point on the graph to see a timestamp of when it occurred and the value.





Click on the legend at the bottom of the graph to turn off the data for that parameter.



In the upper right corner of each graph, you can change the duration and resolution of the data. Duration can be set up to 180 days. Clicking on the "clock" icon (\bigcirc) will allow you to adjust these settings.



Clicking on the "gear" icon (will allow you to view each graph in full screen.







4.5 System Information Tab

The System Information tab provides general information about each system. Between this tab and the power module/flasher module(s) screens, you will come across the following parameters:

System Information	
Account Name	Mx102546
System Name	1st and Main
Local Access	Unlocked
Intensity Mode	Manual
Subscription Level	Mx Plus
Subscription Start Date	2025-02-26
Subscription End Date	2026-02-26
GPS Location	48.4334, -123.382584
GPS Fix Time	2025-02-25
First Activation Date	2023-05-09
Channel	23
PAN ID	27516
Network Key	E618ca707c3511ef9ccbfdc740c5c253
Cellular Signal Strength	Good
Cellular Signal to Noise Ratio	Fair
IMEI	359986127431721
ICCID	8935711550000028954

Parameter	Description
Account Name	Unique name for your account
Channel	Radio channel assigned to the power module
Firmware Part Number	Module circuit board firmware part number
Firmware Version	Module circuit board firmware version
First Activation Date	Date of first power up for system or module
GPS Location	Coordinates of system
GPS Fix Time	Date of last GPS fix
Hardware Part Number	Module circuit board part number
Hardware Version	Module circuit board revision
ICCID	Unique SIM card identifier
IMEI	Unique modem identifier
Intensity Mode	Denotes whether beacon intensity is in Auto or Manual mode
Local Access	Denotes whether local pairing button is enabled (unlocked) or disabled (locked)
LTE Signal Strength	Cellular signal strength



LTE Signal to Noise Ratio	Cellular bandwidth based on signal strength
MAC Address	Unique hardware identifier
Module Name	Denotes power or flasher module
Module Part Number	Module part number
Network Key	Network parameter for linking
PAN ID	Network parameter for linking
Power Source	Denotes whether system is solar or AC powered
Serial Number	Module serial number
Subscription End Date	End date of subscription
Subscription Level	Subscription level applied to system
Subscription Start Date	Start date of subscription
System Name	Unique system name
Warranty End Date	End date of warranty of module
Warranty Start Date	Start date of warranty of module

4.6 Event Log Tab

The Event Log tab provides a recent list of system events. Alerts that have self-cleared will also show here when they are resolved. MX Plus and MX Pro subscriptions will have access to 45 days of historical information. MX Lite systems will show system events from the past seven days.

	Status Charts System Information Event Log	Settings Notes	
Event Log			
Event Type	Event	Event Source	Date
Setting Change	Operation Mode update requested - change from Always On to Trigger/Standby	mbattagello@synapse-its.com	2/26/2025, 3:51:34 PM PST
Setting Change	Local Access Lock update requested - change from Locked to Unlocked	mbattagello@synapse-its.com	2/26/2025, 2:57:34 PM PST
Setting Change	Local Access Lock update requested - change from Unlocked to Locked	mbattagello@synapse-its.com	2/26/2025, 2:55:58 PM PST
Refresh Request	Refresh data requested.	mbattagello@synapse-its.com	2/26/2025, 2:50:24 PM PST
Setting Change	Operation Mode update requested - change from Trigger/Standby to Always On	mbattagello@synapse-its.com	2/26/2025, 2:45:32 PM PST
System Online	System was offline for more than 48 Hours, but is now back online.		2/25/2025, 3:11:47 PM PST

NOTE

Systems with MX Plus/Pro can have the last 180 days of their Event Log downloaded via the System Management screen. See <u>Section 8</u> for more information.



4.7 Settings Tab

The Settings tab allows remote programming of various system settings. Full use of this tab requires an MX Plus or MX Pro subscription and will be mainly read-only for MX Lite subscriptions.

Click on the Edit button for any parameter to bring up the adjustments that can be made. When editing a parameter, the current setting and the desired new setting will be displayed. Once complete, click Send and wait for the system to confirm that the update has been made.

MX Beacons

- Operation sets the system operation mode and other related settings.
- Beacon Intensity sets the beacon intensity.
- Relay (overhead lighting) sets overhead lighting related parameters.
- Local Access enables or disables local pairing via the MX Field App.

		Status	Charts	System Information	Event Log	Settings	Notes		
Operation				Edit	Relay (overhe	ead lighting	0		Edit
Mode	Trigger/Standby				Mode		Activated Day	y and Night	
Flash Duration	20 seconds				Relay Extensio	n	0 seconds		
Beacon Intensity 🛛				Edit	Local Access	0			Edit
Mode	Auto				Local Access		Unlocked		

MX SpeedCheck Radar Speed Signs (SPEEDCHECK-MX)

- Application sets the radar speed sign system type.
- Sign Mode sets the system sign mode.
- Unit of Speed sets the system unit of speed.
- Beacon Intensity sets the beacon intensity (if applicable).
- Speed Parameters sets the system speed parameters.
- Local Access enables or disables local pairing via the MX Field App.

	Status Charts System Inform	nation	Event Log Settings	Notes
Operation 🛛	Edit		Speed Parameters @	Edit
Application	Vehicle Speed Feedback (Your Speed)		Speed Limit	25
Sign Mode	Continuous		Minimum Speed	20
Unit of Speed	MPH		Violation Alert	OFF
			Violation Alert Speed	Disabled
			Slow Down	OFF
			Slow Down Speed	Disabled
			Strobe	OFF
			Strobe Speed	Disabled
			High Speed Cutoff	45
Beacon Intensity 🛛	Edit		Local Access 🛛	Edit
Mode	Auto		Local Access	Unlocked



Operation – MX Beacons

There are five different operation modes to select from. Choosing one of these will expose additional parameters depending on the application.

- Always On beacon(s) will flash 24 hours a day.
- Dusk-to-Dawn beacon(s) will flash between dusk and dawn only.
- Trigger/Standby beacon(s) is activated by a push button, or external trigger such as a passive detection sensor. When selected you will be prompted to enter an additional Flash Duration value.
- Trigger with Notification –beacon(s) are activated by an external trigger or sensor. An SMS and/or email alert is sent each time the system is triggered. Requires an MX Cloud profile with notifications enabled and an active MX Cloud subscription for the system.
- Schedule beacon(s) will flash based on a user generated schedule.

	Edit Operation		
	Changes will be sent to the system	n and may take a few minutes to take effect.	
Always On The system has been set to	Mode	Schedule	
always on, and the beacons will flash 24 hours a day.	Schedule Name	High School 2024	
Dusk-to-Dawn The system is set to operate between dusk and dawn only.	New Settings Mode	- Select Mode - 🗸 🗸]
Trigger/Standby The system is set to operate by a push button or trigger.	Sending an update can take up to 1 m	- Select Mode - Always On Dusk-to-Dawn	h
Frigger with Notification The system is set to operate by an external trigger or sensor.	① Waiting for update confirmation	Trigger/Standby Trigger with Notification	
ach activation will generate a system otification.	Once the update is complete, you will	receive the following confirmation:	
chedule The system is set to schedule node, and a schedule has been applied.			
ippear.		Send Cance	1

The flasher module(s) connected to this system will determine what operation modes are available. For example, for compliance reasons, RRFBs will only operate in Trigger/Standby mode.



Systems cannot change to Schedule mode from the Settings tab. You must assign a system to a schedule, which automatically changes the system to Schedule mode.



These operation modes cover R920-MX, R829-MX, R247-MX, WWD-MX, and CHEVRON-MX systems.



Operation – MX SpeedCheck Radar Speed Signs

The following application modes are available:

• Vehicle Speed Feedback (Your Speed)

There are four different sign modes to select from. Choosing one of these will expose additional parameters depending on the application:

- Continuous vehicle speeds displayed based on configured settings. This is the default setting.
- Schedule vehicle speeds displayed and beacon(s) flash based on user generated schedule.
- Stealth display and beacon(s) off. Vehicle data is still being collected.
- Demo used for demonstration/testing purposes only.

The following units of speed are available:

- MPH
- KPH

Application	Sets the application type - Vehicle Speed Feedback (Your Speed) Continuous sets the display to operate 24 hours a day. Schedule sets the display to operate according to the assigned schedule. Stealth turns the display LEDs off (incoming vehicle speeds won't be displayed) but vehicle speed data is still collected.		Continuous The system has been set to continuous mode, and the display will operate 24 hours a day.
Sign Mode			 Stealth The system is set to stealth mov which turns the LED display off (incomin vehicle's speeds won't be displayed but vehicle speed data will still be collected. Schedule The system is set to schedule name mode, and a schedule has been applied. The name of the assigned schedule will appear. Demo The system is set to demo mode which eenerate its own vehicle data for.
Unit of Speed	Sets the display to MI	PH or KPH.	which generate its own vehicle data for demonstration purposes.
	Current Settings Sign Mode Continuous, Stealth, Schedule or Demo	Demo	
	Unit Of Speed MPH or KPH	MPH	
	New Settings Sign Mode Continuous, Stealth, Schedule or Demo	Continuous Stealth Demo	
	Unit of Speed		
	MPH or KPH	MPH	· ·
	MPH or KPH Sending an update can take up to 1 n © Waiting for update confirmation	minute to complete. During that time, the folio	owing will be displayed:
	MPH or KPH Sending an update can take up to 1 m O Waiting for update confirmation Once the update is complete, you will	NPN injuste to complete. During that time, the follo n I receive the following confirmation:	wing will be displayed:
	MPH or XPH Sending an update can take up to 1 r Other update confirmation Once the update is complete, you will System updated	winter to complete. During that time, the follo	owing will be displayed:



Systems cannot change to Schedule mode from the Settings tab. You must assign a system to a schedule, which automatically changes the system to Schedule mode.

NOTE

Stealth mode is used to collect vehicle data while disabling the display. This is useful comparing data before and after the sign display turned on.



These sign modes cover SPEEDCHECK-MX systems only.



Speed Parameters – MX SpeedCheck Radar Speed Signs

The following speed parameters are available in Continuous (and Demo) mode:

- Speed Limit the speed limit on the roadway.
- Minimum Speed the lowest speed value that will be displayed. Below this value the display will be blank.
- Violation Alert turns on or off the violation alert feature.
- Violation Alert Speed the speed threshold for when the display LEDs begin to flash.
- Slow Down turns on or off the slow down option (if equipped). This option will only be available if the system has the hardware installed.
- Slow Down Speed the speed threshold for when the "slow down" message turns on.
- Strobe turns on or off the strobe option (if equipped). This option will only be available if the system has the hardware installed.
- Strobe Speed the speed threshold for when the strobe(s) will turn on.
- High Speed Cutoff the highest speed value that will be displayed. Above this value the display will be blank.

			New Settings		
dit Speed Parameters		×	Speed Limit Roadway's speed limit	25	
Changes will be sent to the system and may take a few minutes to take effect.			Minimum Speed Below this speed all display LEDs are off	20	
urrent Settings			Violation Alert Display flashes if violation occurs	OFF	~
peed Limit	25		Violation Alert Speed Violation speed threshold	Disabled	
linimum Speed	20		Slow Down Slow Down flashes if threshold is exceeded	OFF	,
elow this speed all display LEDs are off	20		Slow Down Speed Threshold to turn Slow down display on	Disabled	
iolation Alert Display flashes if violation occurs	OFF		Strobe Strobe(s) flashes if threshold exceeded	OFF	
iolation Alert Speed	Disabled		Strobe Speed Threshold to turn strobe(s) on	Disabled	
iolation speed threshold			High Speed Cutoff Above this speed all display LEDs are off	45	
low Down low Down flashes if threshold is exceeded	OFF				
low Down Speed hreshold to turn Slow down display on	Disabled		Sending an update can take up to 1 min Waiting for update confirmation	ute to complete. During that time, the following will be displaye	d:
trobe trobe(s) flashes if threshold exceeded	OFF		Once the update is complete, you will r	eceive the following confirmation:	
Strobe Speed Threshold to turn strobe(s) on	Disabled		⊘ System updated		
High Speed Cutoff Above this speed all display LEDs are off	45			Send	Can

Speed Limit	The speed limit for the roadway.
Minimum Speed	Below this speed all display LEDs are off.
Violation Alert	Turn Violation Alert display on or off.
Violation Alert Speed	The speed threshold for a violation (display LEDs flash).
Slow Down	Turn Slow Down display on or off.
Slow Down Speed	The speed threshold that turns the Slow Down display on.
Strobe	Turn strobe(s) on or off.
Strobe Speed	The speed threshold that turns the strobe(s) on.
High Speed Cutoff	The speed threshold that turns the display off.

NOTE

For MUTCD-compliant operation, Violation Alert/Slow Down Speed/Strobe Speed should be disabled. As per the MUTCD 11th Edition, the sign shall not flash or strobe during operation.



Beacon Intensity

The Beacon Intensity drop-down menu provides settings to adjust daytime and nighttime intensity values. By default, the system will be in Auto mode.

There are two different intensity modes:

- Auto
- Manual

Most users will benefit from leaving the system in Auto mode. In Auto mode, the system will dynamically adjust brightness to retain system sustainability, while attempting to achieve factory default brightness.

The main function of Manual mode is to override the Auto settings to force a specific intensity (a percentage of the factory default value). This is typically to reduce the intensity if it is too bright. Using Manual mode may compromise sustainability for solar-powered systems.



In Manual mode, parameters visible to the user for adjustment are specific to the flasher module(s) connected to the system.

Auto The beacon output intensity will automatically adjust to maximize the beacon's brightness while ensuring sustainability in varying weather conditions.

Manual The beacon output intensity will be fixed at the intensity set by the user.

.dit Beacon Intensity ≚ hanges will be sent to the system and may take a few minutes to take effect.		Edit Beacon Intensity Changes will be sent to the system and may take a few minutes to take effect.		take effect.	
urrent Settings			Current Settings		
Mode	Auto		Mode	Auto	
			New Settings		
ew Settings			Mode	Manual	~
lode	- Select Mode -	~	Daytime Intensity	100%	~
	- Select Mode -		Nighttime Intensity	20%	
Sending an update ca	an take up to 1 mi Manual			3070	•
() Waiting for upda	ate confirmation		Sending an update can take	up to 1 minute to complete. During that time, the	following will be displayed:
			① Waiting for update con	firmation	
Once the update is co	omplete, you will receive the following confirmation:				
System undated	4		Once the update is complete	e, you will receive the following confirmation:	
O System op dated	*		⊙ System updated		
		Cand			
		Cancel			Send Cancel



Auto Mode

The beacon output intensity will automatically adjust to maximize the beacon's brightness while maximizing sustainability in varying weather conditions.

- Meets MUTCD Standards.
- Automatic Light Control (ALC) enabled allows the system to reduce the beacon brightness in response to low battery states of charge. RRFBs will not use ALC to ensure that SAE J595 standards are adhered to.
- Applies sustainable daytime intensity based on the flasher module connected.
- Applies sustainable nighttime intensity based on the flasher module connected.

Manual Mode

The beacon output intensity will be fixed at the percentage set by the user. This is a percentage of the factory default value.

- Automatic Light Control (ALC) disabled the system runs at a fixed intensity.
- User adjustable daytime intensity (percentage of factory default value).
- User adjustable nighttime intensity (percentage of factory default value).

NOTE

Refer to the **LEVEL 1** SYSTEM PLANNER for more information on MX Series default settings, such as flash patterns, intensity settings and out-of-the-box functionality at <u>support.carmanah.com</u>.



Relay (overhead lighting)

There are two relay modes:

- Activated Night Only the overhead light is activated at night only when the beacon(s) is flashing.
- Activated Day and Night the overhead light is activated at all times when the beacon(s) is flashing.

Overhead lighting utilizes the integrated DC relay in all power modules. When the beacon is flashing, the relay output becomes active depending on which mode is selected.

Use the relay extension function to keep the overhead light active after the beacon(s) stops flashing. The relay extension duration can be set between 0 - 60 seconds.

	Edit Relay (overh Changes will be sent to th Current Settings	head lighting) he system and may take a few minutes to take effect.	×
	Mode	Activated Night Only	
	Relay Extension	0 seconds	
	New Settings		
	Mode	Activated Night Only 🗸	
 The DC relay is available for overhead lighting use only. Night Only - the overhead light is active at 	Relay Extension	0 seconds 5 seconds 10 seconds	
night only, when the beacons are flashing.	Sending an update can take	e up to 1 minute to complete. During that time, the following will be displayed:	
both day and night when beacons are flashing.	① Waiting for update con	nfirmation	
• Relay extension – the amount of time the	Once the update is complet	te, you will receive the following confirmation:	
overhead light is on after the beacons stop flashing (0-60 seconds).	⊘ System updated		
		Send Cancel]

NOTE

It is recommended to leave the relay mode in Activated Night Only. This ensures the lighting fixture only comes on at night when the beacon(s) is flashing. For solar systems, this reduces the power requirements.

NOTE

The integrated DC relay uses the 12V OUT (5A MAX) terminals on the power module board. Refer to the appropriate **LEVEL 2** install guide for more information.



4.8 Notes Tab

The Notes tab allows for logging any notes you may have for each system. This can be useful for referencing in the future.

	Status	Charts	System Information	Event Log	Settings	Notes
Please enter your notes in the text area provided down below.						
Description*						64/250
System has been knocked down and replaced. No longer in service.						
 Maximum characters for user's description is 250. 						
						Submit Edit

4.9 Power Module Screen

The Power Module screen provides additional information about the system's power module. See <u>Section 4.5</u> for more information.

Power Module Serial Number: 2306015013010	Request System Data Export
Module Information	
Account Name	MX102546
System Name	Central High School
Module Name	MX Power Module
Power Source	AC
Serial Number	2306015013010
MAC Address	E1:8C:08:99:7E:2F
Module Part Number	90472
Hardware Part Number	90585
Hardware Version	D
Firmware Part Number	91517
Firmware Version	2.9.9
First Activation Date	2023-08-11
Warranty Start Date	2023-08-11
Warranty End Date	2026-08-11
Channel	11
PAN ID	23017
Network Key	2cbb0380451811efb63df93860abc486
GPS Location	48.433756, -123.382368



Click on Request System Data Export to download all available historical data for the power module. Requires an MX Plus (180 days of data) or MX Pro (5 years of data) subscription.



Request Data Export

Systems which have MX Pro subscriptions will have the added feature of requesting up to 5 years of available data from the system. This will be delivered to your email address.



The data exported is exported as a CSV and includes:

- Report date/time
- Serial number
- Activation count from yesterday
- Charge current (mA)
- CPU temperature (°C)
- Energy in available from yesterday (mWh)
- Energy collected yesterday (mWh)
- Energy out Yesterday (mWh)
- GPS latitude
- GPS longitude
- Maximum battery voltage yesterday
- Minimum battery voltage yesterday
- Solar volage (mV)
- Source voltage (mV)
- Activation count since last report
- UTC time of system



4.10 Flasher Module Screen

The Flasher Module screen provides additional information about the system's flasher module(s). See <u>Section 4.5</u> for more information.

MX Beacon Module Serial Number: 2304015016046	Delete MX Beacon Module
Module Information	
Account Name	MX102546
System Name	Central High School
Module Name	MX Beacon Module
Serial Number	2304015016046
MAC Address	1A:EE:01:8D:F7:F4
Module Part Number	90494
Hardware Part Number	90073
Hardware Version	E
Firmware Part Number	90753
Firmware Version	2.9.3
First Activation Date	2023-08-11
Warranty Start Date	2023-08-11
Warranty End Date	2026-08-11
Channel	11
PAN ID	23017
Network Key	2cbb0380451811efb63df93860abc486

NOTE

Click on Delete MX Beacon Module to remove it from the system. Use this if the flasher module has been removed from service or added to another system. Beacons will automatically show up in MX Cloud to whichever system they are connected to.

Remove MX Beacon Module? Serial Number: 2304015016046	×
Remove this module if it has been physically removed from the system in the field. Removing this module puts it in a dormant state in MX Cloud. If this module is reconnected, either to this system or another system, it will reappear in MX Cloud attached to that system.	
Do you want to remove this MX Module from system Central High School?	!



5.0 Schedules – R829-MX Scheduling (Beacon Systems)

5.1 Overview

The Schedules screen is where you will manage schedule-based programming, primarily used for school zone systems. Choose the R829-MX Scheduling option after clicking on Schedules.

Schedules are based on a seven-day period from Sunday to Saturday. The schedule is not date-based and will run in perpetuity when assigned to a system.

Each account will start with a Sample Schedule as an example. It is recommended to start by cloning the Sample Schedule and use it as a template.

Schedules ø			Create Schedule	High School	2024			(2)			
Schedule Name	Assigned to # of Systems	Last Modified Date						<u> </u>			2402
Elementary School	0	2024-04-01	~	sun ootoo							24.00
High School 2024	0	2024-04-01	~	Mon 00:00			08:00	12:00	15:00		24:00
Sample Schedule	0	2024-04-01	~	Tue 00:00			09.00	12:00	15:30		24:00
	(1)			Wed 00:00			09.00	12:00	15:00		24:00
	•			Thu 00:00			09.00	12:00	15:00		24:00
				Fri 00:00			09.00	12:00	15:00		24:00
				Sat 00:00							24:00
				Exceptions			Create Exception	System	Assignments	Assign Systems to S	thedule
				Exception Name	Start Date	End Date	Date Quantity	System I	Name		
					No availa	ble exceptions			No	available assignments	
					(3				4	

This screen is segmented into four sections:

- 1. Schedules
- 2. Schedule details
- 3. Exceptions and alternate schedule
- 4. System assignments

NOTE

Schedules are created and can exist independently of MX systems.



The left side of the screen will show the following:

- List of previously created schedules
- Number of systems assigned to each schedule
- Last date each schedule was modified

Schedules 🥹			Create Schedule
Schedule Name	Assigned to # of Systems	Last Modified Date	
Elementary School	0	2024-04-01	\sim
High School 2024	0	2024-04-01	\checkmark
Sample Schedule	0	2024-04-01	\checkmark

How to create a schedule is outlined in <u>Section 5.2</u>.

Click on the down chevron icon to bring up additional functions for each schedule.



Clone Schedule

This will allow you to clone an existing schedule. The newly cloned schedule will have identical schedule details as the original. The cloned schedule will be given a new name which can be renamed.

Clone Scheo Schedule Name :	Jule High School 2024	×
Name	High School 2024 - 1	
	Clone	



Rename Schedule

This will allow you to rename an existing schedule.

Rename Schedule					
Schedule Name	e : High School 2024 - 1				
New Name	Middle School				
		Rename	Cancel		

Delete Schedule

This will allow you to delete an existing schedule.

Delete Schedule Schedule Name : Middle School		×
This action will permanently delete this schedule.		
	Delete Cancel	



Only schedules with no assigned systems may be modified or deleted. To modify a schedule with systems assigned to it, you will need to clone the schedule and then begin to make modifications. Once you have completed the necessary changes, you can assign each applicable system to the new schedule. See Section 5.4 for more information.

NOTE

The Sample Schedule will automatically populate if all schedules are deleted.

NOTE

Schedules with "APP" next to the name signifies a locally programmed schedule via the MX Field App. These schedules cannot be edited but can be cloned. If the system(s) assigned to this schedule are moved to one created in MX Cloud, the APP schedule will automatically be purged from the account within 24 hours.

Schedules ø			Create Schedule
Schedule Name	Assigned to # of Systems	Last Modified Date	
Central School District	1	2024-04-01	\sim
Elementary School	0	2024-04-01	\checkmark
High School 2024	0	2024-04-01	\checkmark
Sample Schedule	0	2024-04-01	\sim

Indicates this schedule was created
using the MX Field App, and cannot be
editted from MX Cloud. To make
changes, clone this schedule and assign
systems to the cloned version.



5.2 Creating a Schedule

Click on Create Schedule to create a new blank schedule. Optionally, click the checkbox in the New Schedule pop-up to include the Sample Schedule. The Sample Schedule uses the following events from Monday to Friday:

- 08:30 09:00 (beacons on)
- 12:00 13:00 (beacons on)
- 15:00 15:30 (beacons on)

Events are periods when the system's beacons are on. During all other periods in the schedule the beacons will remain off unless pedestrian triggered (if equipped with a push button or passive sensor).

New Schedu	ıle	×
Schedule Name	State College]
🗹 Include Sample	Schedule	
	Create Cancel	J

ite Co	ollege		
Sun	00:00		24:00
Mon	00:00		24:00
Tue	00:00	0830 1200 1500	24:00
Wed	00:00		24:00
Thu	00:00	0830 12:00 15:00 09:00 13:00 15:30	24:00
Fri	00:00	0830 12:00 15:00 09:00 13:00 15:30	24:00
Sat	00:00		24:00

Build the schedule for the typical weekly events throughout the year. For any days that fall outside of this schedule, such as an early release day, create an alternate schedule to supersede this schedule for that day. See <u>Section 5.3</u> for more information.


Click on the down chevron icon to bring up additional functions for each day.

	Add Event
	Clone Day
\sim	Clear Day

Add Event

This will allow you to add a new event. Choose the event on time and off time and click Add to complete. Events use a 24-hour clock format in HH:MM.

Add New Event Current Day : Mon	×
On Time (HH:MM)	19 : 00
Off Time (HH:MM)	21 : 00
	Add Cancel

If you need to make a change to an event, click on the blue portion of the event in the timeline. You can edit the times or delete the event.

ECIT EVENT Current Day : Mon						
On Time (HH:MM)	19:00	12;00	15:00	19:00		
Off Time (HH:MM)	21 : 00	13:00	15:30	21:00	24:00	
Apply Changes Cancel		12:00	15:00		24:00	
Delete Event		12:00	15:00		24:00	
On Time (HH:MM)	19:00	13:00 12:00	15:30			
Off Time (HH:MM)	21:00	13:00	15:30		24:00	
Delete		12:00	15:00		24:00	



Clone Day

This will allow you to copy the event timeline from one day to another. You can select individual days, all days, or just weekdays. Click Clone to complete.



Clear Day

This will allow you to clear the event timeline for a given day.

State College						
Sun 00:00					24:00	~
Clear Day Current Day : Mon	×	12:00	15:00	19:00	24:00	~
This action will delete all events for this day.		12:00	15:00		24:00	
	Clear Cancel	12:00	15:00		24:00	~
Thu 00:00	08:80	12:00	15:00		24:00	
Fri 00:00	08:30	12:00	15:00		24:00	~
Sat 00:00					24:00	



5.3 Creating Exceptions/Alternate Schedules

The Exceptions section allows for the following:

- Create an exception/alternate schedule
- Create a "snow day" exception
- Edit existing exceptions
- Delete existing exceptions

All created exceptions will be listed, showing the exception name, start date and end date.

Exceptions			Create Exception
Exception Name	Start Date	End Date	Date Quantity
	No available	exceptions	

Create Exception/Alternate Schedule

Exceptions/alternate schedules override the existing day's event timeline on the date(s) chosen for the exception. They differ from schedules as they are date-based instead of day-of-the-week based. While an exception is active, the beacon(s) follow the new exception day pattern events. This is useful for altering your weekly schedule with recurring (such as early release days), one-off occasions, or holidays.

- 1. Click on Create Exception.
- 2. Choose a name for the exception.
- 3. Edit/add/delete events for the day pattern to suit your exception requirements. Clearing the day will result in no events, which turns the beacon(s) off for the dates selected.
- 4. Choose the applicable dates.
- 5. Click on Save to complete.

Create Exceptio	n							
Exception Name	Sample Exce	otion						
Exception Day Pattern	00:00			08:30	12:00	15:00		24:00
Select Days 🛛	•			April 2024			•	Active Days : 0
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	⑦ Please select at least one or more date(s) from the calendar to proceed.
	31	1	2	3	4	5	6	
	7	8	9	10	11	12	13	
	14	15	16	17	18	19	20	
	21	22	23	24	25	26	27	
	28	29	30	1	2	3	4	Select All Deselect All Remove
								Save



In the example below, the Summer Break 2024 exception operates between June 17, 2024 and August 30, 2024. No scheduled events will occur during this exception period, and the beacon(s) will remain off. On August 31st, 2024, the schedule will resume its normal weekly programmed events.

ception Name	Summer Bre	ak 2025						
cception Day Pattern	00:00							24:00
elect Days 🛛	•		Si	eptember 202	5		Þ	Active Days : 60
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	2025-06-16
	31	1	2	3	4	5	6	2025-06-172025-06-18
	7	8	9	10	11	12	13	2025-06-19
	14	15	16	17	18	19	20	2025-06-202025-06-23
	21	22	23	24	25	26	27	2025-06-24
	28	29	30	1	2	3	4	Select All Deselect All
								Remove

Exceptions			Create E	Exception
Exception Name	Start Date	End Date	Date Quantity	
Summer Break 2025	2025-06-16	2025-09-05	60	\sim



Create a "Snow Day" Exception

The "snowflake" icon ($\frac{1}{2}$) next to Create Exception is a quick method to turn the beacon(s) off, on the dates selected, for all systems assigned to the schedule.

- 1. Click on the snowflake icon.
- 2. Choose a name for the exception.
- 3. Choose the applicable date(s).
- 4. Click on Save to complete.

In the example below, "Holidays 2024" turns the beacon(s) for May 27, 2024. On May 28, 2024, the schedule will resume its weekly programmed events.

Any additional exceptions will be shown in chronological order under the Exceptions list.

Create Exceptio	n							
Exception Name	Holidays 202	25						
Exception Day Pattern	00:00							24:00
Select Days 🛛	•			April 2025			•	Active Days : 1
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	2025-04-28
	30	31	1	2	3	4	5	
	6	7	8	9	10	11	12	
	13	14	15	16	17	18	19	
	20	21	22	23	24	25	26	
	27	28	29	30	1	2	3	Select All Deselect All Remove
								Save Cancel

Exceptions			🗱 🛛 Create E	xception
Exception Name	Start Date	End Date	Date Quantity	
Holidays 2025	2025-04-28	2025-04-28	1	~
Summer Break 2025	2025-06-16	2025-09-05	60	~



Edit/Delete/Share Exceptions

Click on the down chevron icon to edit or delete an exception.

- Edit Exception allows renaming the exception and changing exception parameters. Click Save to complete.
- Delete Exception deletes the exception. Click Delete to complete.
- Share Exception allows sending an exception to another schedule . Click on the schedule(s) to share the exception with and click Share to complete.





Only dates that are not taken by another exception may be chosen.





5.4 Assigning Systems to Schedules

The System Assignment section allows for the following:

- Assign system(s) to a schedule
- Move all system(s) assigned to this schedule to another schedule

Once you have completed building the schedule's events and exceptions, you can assign a system to this schedule. Assigning a system to a schedule will automatically change that system's operation mode to Schedule.

System Assignments	Assign Systems to Schedule Move All
System Name	
No a	vailable assignments

- 1. On the left side of the Schedules screen, click on the schedule you want to assign systems to. The schedule will turn teal.
- 2. Click on Assign Systems to Schedule.
- 3. Click the checkbox for each system you want to assign to the schedule.
 - a. Only systems with MX Pro subscriptions will be listed. If the system already has a schedule assigned, it will be listed under Current Schedule.
 - b. Click on the checkbox next to System Name to select all systems.
- 4. Click on Save to complete.

Schedule Service Create Schedule Schedule Name Assigned to # of Systems Last Modified Date Elementary School 0 2024-04-01 High School 2024 1 2024-04-01 Sample Schedule 0 2024-04-01 State College 0 2024-04-01	Assigned to # of Systems Last Modified Date ool 0 2024-04-01 4 1 2024-04-01 0 2024-04-01 0 2024-04-01 0 2024-04-01							
Assigned to # of Systems Last Modified Date Schedule Name Assigned to # of Systems Last Modified Date Elementary School 0 2024-04-01 High School 2024 1 2024-04-01 Sample Schedule 0 2024-04-01 State College 0 2024-04-01	Assigned to # of Systems Last Modified Date bol 0 2024-04-01 4 1 2024-04-01 e 0 2024-04-01 0 2024-04-01 Central High School 0 2024-04-01 Central High School 0 2024-04-01 Central High School	Scriedules			Create Schedule	1	Assign Systems to H	igh School 2024
Elementary School 2024 04-01 Sample Schedule 0 2024-04-01 State College 0 2024-04-01	ool 2024-04-01 Image: System Name Current Schedule 4 1 2024-04-01 Image: School Central High School Central School District e 0 2024-04-01 Image: School Ventral High School Ventral School District 0 2024-04-01 Image: School Ventral High School Ventral High School Ventral High School	Schedule Name	Assigned to # of Systems	Last Modified Date		T ti	hese are your MX Pro systems you on he schedule or unselect systems to u	an assign to schedule High School 2024 . Select systems to unassign from the schedule.
Image: Control School 2024 Image: Control School District High School 2024 Image: Control School District Sample Schedule O 2024-04-01 O 2024-04-01 State College O 2024-04-01	Image: Control High School Central School District Image: Control High School Central High School Image: Control High School Central School District	Elementary School	0	2024-04-01		•	System Name	Current Schedule
High School 2024 1 2024-04-01 V Sample Schedule 0 2024-04-01 V State College 0 2024-04-01 V	1 2024-04-01 e 0 0 2024-04-01	,					Central High School	Central School District
Sample Schedule 0 2024-04-01 State College 0 2024-04-01	e 0 2024-04-01 0 2024-04-01	High School 2024	1	2024-04-01	\sim			
State College 0 2024-04-01 V	0 2024-04-01 🗸	Sample Schedule	0	2024-04-01	~			
	0 2024-04-01	State College	0	2024.04.01				
		State conege	0	2024 04 01				
System Assignments Asign Systems to Schedule Move all	gements Assign Systems to Schedule Move All	System Assignment	nts	Assian Sustems to Sci	hedule Move All			
System Assignments Assign Systems to Schedule Move All	gnments Assign Systems to Schedule Move All	System Assignmer	nts	Assign Systems to Sci	hedule Move All			
System Assignments Assign Systems to Schedule Move All System Name	ignments Assign Systems to Schedule Move All	System Assignmer System Name	nts	Assign Systems to Sci	hedule Move All			
System Assign Systems to Schedule Move All System Name Control Wich School	ignments Assign Systems to Schedule Move All	System Assignmer System Name	nts	Assign Systems to Sci	hedule Move All			



Once you have a system assigned to a schedule, you can do the following:

- Remove a system from a schedule.
- Move all systems from one schedule to another schedule.

Remove System

Click on the down chevron icon to remove a system assigned to a schedule.

- 1. Click on the down chevron icon and click on Remove System.
- 2. Confirm that this is the system you wish to remove from the schedule. Click on Remove to complete.

You can also remove the schedule for a group of systems assigned the same schedule.

- 1. On the left side of the Schedules screen, click on the schedule you want to unassign systems from. The schedule will turn teal.
- 2. Click on Assign Systems to Schedule.
- 3. Choose the system(s) you wish to unassign from the schedule.
 - a. All systems with MX Pro subscriptions assigned to this specific schedule will be listed.
- 4. Uncheck the box on the system(s) you wish to unassign.
 - a. Click on the checkbox next to System Name to select all systems.
- 5. Click on Save to complete. These system(s) will now revert to the Trigger/Standby operation mode.

				Schedules > Assign Systems to High Sche	ool 2024
Schedules @			Create Schedule	Assign Systems to Hig	h School 2024 assign to schedule High School 2024 . Select systems
Schedule Name	Assigned to # of Systems	Last Modified Date		the schedule or unselect systems to una	ssign from the schedule.
Elementary School	0	2024-04-01	~	System Name Central High School	Current Schedule High School 2024
High School 2024	0	2024-04-01	~		
Sample Schedule	0	2024-04-01	~		
State College	0	2024-04-01	~		
System Assignme	nts	Assign Systems to Sch	hedule Move All		
System Name					

NOTE

Removing a system from a schedule automatically changes the operation mode from Schedule to Trigger/Standby.



Move All

Click the Move All button to move all systems from the selected schedule to another.

- 1. Select the schedule you wish to move systems from.
- 2. Click on Move All.
- 3. Select the new schedule you wish to move systems to.
- 4. Click Move to complete.



Schedules 🧕			Create Schedule
Schedule Name	Assigned to # of Systems	Last Modified Date	
Elementary School	0	2024-04-01	\sim
High School 2024	0	2024-04-01	\sim
Sample Schedule	1	2024-04-01	\sim
State College	0	2024-04-01	\sim



6.0 Schedules – SPEEDCHECK-MX Scheduling (Radar Speed Signs)

6.1 Overview

The Schedules screen is where you will manage schedule-based programming, primarily used for school zone radar speed sign systems. Choose the SPEEDCHECK-MX Scheduling option after clicking on Schedules.

Schedules are based on a seven-day period from Sunday to Saturday. The schedule is not date-based and will run in perpetuity when assigned to a system.

Each account will start with a Sample Schedule as an example. It is recommended to start by cloning the Sample Schedule and use it as a template.

SPEEDCHECK-MX Schedu	ules o		Create Schedule	Radar Speed Si	gns 2025					
Schedule Name	Assigned Systems	Last Modified Date			Operating Modes					
Radar Speed Signs 2025	0	2025-04-15	~	(2)	Create Operating Mode					
Sample Schedule	0	2025-04-14	~	\sim	Mode Name					
	-				Stealth	~				
	(1)				25 Zone	~				
				3	Daily Timetables 🛛					
					Create Timetable	411.04				Stealth
					All Off	Aroll				25 Zone
					Stat Holiday Timetable	✓ 00.00				24.00
					Weekday Timetable	~				
					Weekend Timetable	~				
					Weekly Schedule					Save
					Sun	Mon	Tue	Wed	Thu	
					Weekend Timetable V	Weekday Timetable 🗸	Weekday Timetable 💊	Weekday Timetable 🗸	Weekday Timetable 🗸	
					Weekday Timetable 🗸 🗸	Weekend Timetable 🗸	•			
					Exceptions @		Create Exception	System Assignments	Assign Systems to S	chedule Move All
					Exception Name Start I	Date End Date	Date Quantity	System Name		
					No	available exceptions			No available assignments	
						(4)		(5)
							<u> </u>			

This screen is segmented into five sections:

- 1. Schedules
- 2. Operating Modes
- 3. Daily Timetables
- 4. Exceptions
- 5. System Assignments



Refer to <u>Section 5</u> for several shared functions and options between R829-MX and SPEEDCHECK-MX radar speed sign scheduling.



Schedules are created and can exist independently of MX systems.



6.2 Creating Schedules

Click on Create Schedule to create a new blank schedule. Optionally, click the checkbox in the New Schedule pop-up to include the Sample Schedule. The Sample Schedule uses the following parameters:

- Operating Modes
 - Stealth display and beacon(s) off while collecting vehicle data.
 - 25 Zone speed values set for a speed zone of 25 MPH/KPH. Beacon(s) are off by default in this mode.
- Daily Timetables
 - All Off running Stealth operating mode at all times.
 - o Stat Holiday Timetable running Stealth operating mode at all times.
 - Weekday Timetable
 - 08:30 09:00 25 Zone active
 - 12:00 13:00 25 Zone active
 - 15:00 15:30 25 Zone active
 - Weekend Timetable running Stealth operating mode at all times.

New operation modes and timetables can be created. Refer to <u>Section 5.1</u> for more general information on schedules.

New Sched	ule	×
Schedule Name	Enter Schedule Name	
✓ Include Sample	Schedule	
	Create Cancel)



When using the default operating modes and timetables, be sure to edit them before assigning the system to a schedule. For example, the Stealth operating mode has a default speed limit of 25. Failure to change this speed limit may affect the compliance results when viewing the vehicle data in MX Traffic Analyzer.



6.2 Creating Operating Modes

Click on Create Operating Mode to create a new operating mode.

These are Configurations that determine how the system behaves during different parts of the day	Create Operating Mode					
e.g., Rush Hour, Night Mode.	Operating Mode Name	15 Zone				
	Sign Mode	Continuous 🗸				
	Speed Limit	15				
	Minimum Speed	10				
	Violation Alert	OFF 🗸				
Operating Modes 🛿	Violation Alert Speed	Disabled				
Create Opporting Mode	Slow Down	OFF 🗸				
Create Operating Mode	Slow Down Speed	Disabled				
Mode Name	Strobe	OFF 🗸				
	Strobe Speed	Disabled				
Stealth	High Speed Cutoff	30				
25 Zone	Beacon Mode	ON V				
		Submit Cancel				

- 1. Enter a unique name for the operating mode. Adjust the color chosen as required. This will automatically choose a random color for you. This is to visually represent which mode is being used on the daily timetable timeline.
- 2. Set the sign mode.
- 3. Set the speed values.
- 4. Enable violation alert, slow down, or strobe as desired. Slow down and strobe are optional add-ons.
- 5. Enable beacon mode as desired. Beacons are optional add-ons but are typical for scheduled operations.
 - a. If enabled, beacon(s) will flash during the designated times selected in the daily timetables when using this operating mode.
- 6. Click Submit once complete.

See <u>Section 4.7</u> for more information on the operating mode parameters.



NOTE

Stealth operating mode cannot be changed or deleted, other than adjusting its speed limit value.



6.3 Creating Timetables

Click on Create Timetable to create a new timetable.

Create Time	table		×	
Timetable Name	Early Release 2025	Create Cancel		Each day follows a Daily Timetable , which schedules different Operating Modes at specific times throughout the day.

Daily Timetables 3			
Timetable Name		All Off	Stealth
All Off			25 Zone 15 Zone
Stat Holiday Timetable	~		
Weekday Timetable	~	00:00	24:00
Weekend Timetable	~		

- 1. Click on timetable you wish to edit.
- 2. Click on the down chevron. Click on Clear Day to start from scratch as desired.
- 3. Click on Add Event:
 - a. Choose operating mode.
 - b. Choose on time (time mode begins).
 - c. Choose off time (time mode ends).
- 4. Click Add.

Add New Event	×
Operating Mode	15 Zone 🗸
On Time (HH:MM)	13 : 30
Off Time (HH:MM)	14 : 00
	Add Cancel



All Off daily timetable cannot be edited or deleted.





Daily Timetables ?					
Timetable Name		Early Release 2025			Stealth
All Off					25 Zone
Early Release 2025	~		08:30	13:30	15 Zone
Stat Holiday Timetable		00:00	09:00	14:00	24:00 🗸
Neekday Timetable					

NOTE

Events are designated times when the system is **no longer** in stealth mode.

6.4 Editing Weekly Schedule

The weekly schedule will automatically be populated for you. Adjust each day of the week based on your application and click Save.



Available options are based on daily timetables created in <u>Section 6.3</u>. Selections should be made for your typical weekly requirements. For dates that require a different timetable see <u>Section 6.5</u> to create an exception.



6.5 Creating Exceptions

Exceptions override the existing day's daily timetable on the date(s) chosen for the exception. These are datebased instead of day-of-the-week based. While an exception is active, the radar speed sign will follow the new timetable events. This is useful for altering your weekly schedule with recurring (such as early release days), oneoff occasions, or holidays.

Exceptions Create Exception					Exceptions 😢			Create	Exception
Exception Name	Start Date	End Date	Date Quantity		Exception Name	Start Date	End Date	Date Quantity	
	No available	exceptions			Holidays 2025	2025-04-18	2025-12-31	14	~

- 1. Click on Create Exception.
- 2. Choose a name for the exception.
- 3. Choose the daily timetable. If required, create a new daily timetable.
- 4. Choose the applicable dates.
- 5. Click on Save to complete.

Create Exceptio	n							
Exception Name	Holidays 202	5						
Daily Timetables	All Off	F ~						
Select Days 🛛	•		D	ecember 202	5		۱.	Active Days : 14
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	2025-04-18
	30	1	2	3	4	5	6	2025-05-26
	7	8	9	10	11	12	13	2025-09-01
	14	15	16	17	18	19	20	2025-11-272025-11-28
	21	22	23	24	25	26	27	2025-12-22
	28	29	30	31	1	2	3	Select All Deselect All
								Remove
								Save Cancel

6.6 Assigning Systems to Schedules

Refer to <u>Section 5.4</u> for assigning systems to schedules, removing systems from schedules, and moving systems to another schedule.



7.0 Subscriptions

7.1 Overview

The Subscriptions screen provides access to manage assigned and unassigned subscriptions. Assigned subscriptions are sorted by expiry date but may also be manually sorted by system name.

Systems that have yet to be deployed will not be accessible for subscription management. Their details will be updated once commissioned.

Manage MX Subscriptions View all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions which have not previously been assigned to a system, they will be listed under "Available subscriptions to assign." Visit our website to learn about <u>MX Subscriptions</u> .			Available subscriptions to assign: 0			
			Subscription Length (years)			
			No available plans			
System ^	Subscription @	Today		Expiry Date		

Manage MX Subscr	iptions	Available subscriptions to assign: 17 Transfer Subscr				
View all systems registered on your accou which have not previously been assigned	unt and their current subscription status. to a system, they will be listed under "Av	Subscription @	Length (years)	Quantity		
Visit our website to learn about MX Subsc	criptions.		MX Lite	1	1	
			MX Lite	3	3	
			MX Plus	1	3	
			MX Plus	3	8	
			MX Pro	5	2	
					< Prev 1 Next >	
System 🔷	Subscription @	Today		Expiry Date		
1st and Main Serial Number: 2306015013019	MX Lite			2025-06-15	Add Subscription	
Central High School Serial Number: 2306015013010	MX Pro			2026-01-25	Add Subscription	
Bay St W Speed Sign Serial Number: 2428999999022	MX Pro			2026-10-25	Add Subscription	



System List

Each system in the account will be listed and show the following:

- System name
- Current subscription
- Time remaining on the subscription
- Expiry date of the subscription

If a system is eligible to accept a new subscription, the Add Subscription button will become active. Systems with two subscriptions already applied to it cannot accept any more subscriptions until one has expired. An example of two subscriptions on one system would be:

- Subscription 1 MX Lite (3-years included)
- Subscription 2 MX Plus (3-year length purchased)

Subscription Inventory

In the upper right corner is a list of all unassigned subscriptions available to be assigned to systems. The table of unassigned subscriptions indicates the:

- Subscription level
- Subscription length (in years)
- Quantity of subscriptions in inventory

Available subscriptions to a	Transfer Subscription	
Subscription @	Length (years)	Quantity
MX Lite	1	1
MX Lite	3	3
MX Plus	1	3
MX Plus	3	8
MX Pro	5	2



7.2 Subscription Renewal

To renew a subscription, follow the steps below:

- 1. Find the system you wish to add an unassigned subscription to.
- 2. Click on Add Subscription.
- 3. Choose the appropriate subscription and length from the list.
- 4. A pop-up will display the current subscription information and the proposed change.
- 5. Click Confirm Update to add the subscription. The system will now reflect the new information.
- 6. The available subscription inventory will adjust accordingly.

System A Subscription D Toriay			
Security Security (1993)	Expiry Date		
1st and Main Serial Number 2100/15011019 MIX Lite	2025-06-15	Add Subscription	
Central High School MX Pro	2026-01-25	Subscription Length (year	s) Quantity
Bay St W Speed Sign MK Pro	2026-10-25	MX Lite 1	1
Senal Number: 24/09/09/0022		MX Lite 3	3
		MX Plus 1	
		MX Pro 5	2
Add MX Subscription You are about to make the following change. System Subscription Today Set Muniter: 200015013019 Life Life Humber: 200015013019	Expiry date 2025-06-15 2026-06-15		×
This subscription change cannot be undone. To confirm subscription change, click "Confirm u	ipdate".		
This subscription change cannot be undone. To confirm subscription change, click "Confirm u Confirm Update Cancel Manage MX Subscriptions we all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions to assign."	Available subscriptions to as scriptions	ssign: 16 Length (years)	Transfer Subscription Quantity
This subscription change cannot be undone. To confirm subscription change, click "Confirm u Confirm Update Cancel Manage MX Subscriptions ew all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions this have not previously been assigned to a system, they will be listed under "Available subscriptions to assign." sit our website to learn about MX Subscriptions.	Available subscriptions to as subscriptions to as subscriptions MX Lite	ssign: 16 Length (years) 3	Transfer Subscription Quantity 3
This subscription change cannot be undone. To confirm subscription change, click "Confirm u Confirm Update Cancel Anaage MX Subscriptions ew all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions that have not previously been assigned to a system, they will be listed under "Available subscriptions to assign." sit our website to learn about MX.Subscriptions.	Available subscriptions to as subscriptions MX Lite MX Plus	ssign: 16 Length (years) 3 1	Transfer Subscription Quantity 3 3
This subscription change cannot be undone. To confirm subscription change, click "Confirm u Confirm Update Cancel Ananage MX Subscriptions ew all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions that have not previously been assigned to a system, they will be listed under "Available subscriptions to assign." sit our website to learn about MX Subscriptions.	Available subscriptions to as subscriptions MX Lite MX Plus MX Plus	ssign: 16 Length (years) 3 1 3	Transfer Subscription Quantity 3 3 8
Confirm Update Cancel Can	Available subscriptions to as criptions Subscription MX Lite MX Plus MX Pro	Length (years) Length (years) S 3 3 3 3 5	Quantity 3 3 3 2
This subscription change cannot be undone. To confirm subscription change, click "Confirm u Confirm Update Cancel Manage MX Subscriptions we all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions thich have not previously been assigned to a system, they will be listed under "Available subscriptions to assign." sit our website to learn about MX Subscriptions.	Available subscriptions to as criptions MX Lite MX Plus MX Pro	Length (years) Length (years) S 3 3 3 3 5	Quantity 3 3 3 2 < Prev 1 Next >
This subscription change cannot be undone. To confirm subscription change, click *Confirm undone confirm undone confirm update Cancel Manage MX Subscriptions we all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions that a system, they will be listed under "Available subscriptions to assign." sit our website to learn about MX Subscriptions. System Subscription Subscription Today	Available subscriptions to as criptions MX Lite MX Plus MX Pro	SINT SINT SINT SINT SINT SINT SINT SINT	Quantity 3 3 3 2 < Prev
	Available subscriptions to as criptions MX Lite MX Plus MX Pro	Length (years) 4 5 4 5	Quantity 3 3 3 4 2 < Prev
This subscription change cannot be undone. To confirm subscription change, click *Confirm undone. To confirm subscription change, click *Confirm undone. Anaage MX Subscriptions sw all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions to a system, they will be listed under *Available subscriptions to assign.* sit our website to learn about MX Subscriptions. ystem O Subscription O text High School MX Pro st and Main MX Lite	Available subscriptions to as riptions Subscription MX Lite MX Plus MX Pro	Length (years) 3 1 3 5	Quantity 3 3 3 4 2 < Prev

NOTE

Systems with two subscriptions applied will have the Add Subscription button grayed out. A system with less than 60 days remaining will reactivate the Add Subscription button to proceed with a renewal.

NOTE

Renewals of the same subscription level will be appended to the expiry date of the existing subscription. Renewing with a higher-level subscription will supersede the current subscription and take effect immediately. Once the higher-level subscription expires, this system will revert to any remaining subscription, if applicable.





7.3 Subscription Upgrade

Upgrading a subscription is similar to the renewal procedure in <u>Section 7.2</u>. Upgrading a subscription requires the following:

- A system that has only one subscription applied to it.
- An upgraded subscription that is a higher level than the existing subscription.

To update a subscription, follow the steps below:

- 1. Find the system you wish to add a higher-level subscription to.
- 2. Click on Add Subscription.
- 3. Choose the appropriate subscription and length from the available list.
- 4. A pop-up will display the current subscription information and the proposed change.
- 5. Click Confirm Update to add the subscription. The system will now reflect the new information.
- 6. The available subscription inventory will adjust accordingly.

ystem	Subscription	Today	Expiry date	
st and Main erial Number: 2306015013019	CURRENT: MX Lite		2025-06-15	
	NEW: MX Plus		2026-04-15	



In the example above, this system has an active MX Lite subscription and added a 1-year MX Plus subscription. The MX Plus subscription is effective immediately. Once the MX Plus subscription expires, this system will revert to any remaining MX Lite subscription (if applicable).



7.4 Subscription Transfer

Unassigned subscriptions may be transferred from one MX Cloud account to another MX Cloud account. Most users will not have to utilize this feature. MX Authorized Distributors most often use the Transfer Subscription function to provide MX Cloud subscriptions directly to their customers.

To transfer a subscription, follow the steps below:

- 1. Click on Transfer Subscription. A pop-up will display the subscriptions available for transfer.
- 2. Select the subscription, length and quantity you wish to transfer.
- 3. Enter the email address of the MX Admin on the other account that will receive this transfer.
- 4. The subscription will leave your inventory immediately. The MX Admin of the receiving MX Cloud account will receive an email to accept this transfer. If they do not accept the transfer within five days, the subscription will revert to the original account.

Subscription	Length (years)	Quantity	
MX Lite	1	1	0 🗸
MX Lite	3	3	0 🗸
MX Plus	1	3	0 🗸
MX Plus	3	8	0~
MX Pro	5	2	2~
lease enter the email a	ddress of the MX Admin of t	he target account.	
example@email.co	m		

Manage MX Subscrip	otions		Available subscriptions to assign 15			
View all systems registered on your account which have not previously been assigned to	/ew all systems registered on your account and their current subscription status. If you have purchased MX Subscriptions which have not previously been assigned to a system, they will be listed under "Available subscriptions to assign."				Quantity	
Visit our website to learn about <u>MX Subscrip</u>	itions.		MX Lite	1	1	
			MX Lite	3	3	
			MX Plus	1	3	
			MX Plus	3	8	
					< Prev 1 Next >	
System 🔷	Subscription @	Today		Expiry Date		
1st and Main Serial Number: 2306015013019	MX Lite			2025-06-15	Add Subscription	
Central High School Serial Number: 2306015013010	MX Pro			2026-01-25	Add Subscription	
Bay St W Speed Sign Serial Number: 2428999999022	MX Pro			2026-10-25	Add Subscription	



8.0 System Management

8.1 Overview

The System Management screen provides a convenient way to manage certain system functions. This screen is only available to MX Admins.

System Manageme	ent	Q Search Nam	e or Serial Number			
System Name	Status 🕐	Local Access 🔞	Alert Notification 🕖	Last Check In Date	 Please select at least one system to us 	e buttons listed down below.
Serial Number: 2306015013019	٠	•		2025-04-15	Transfer Ownership	Reset Digital Keys
Bay St W Speed Sign Serial Number: 242899999022	٠	•		2025-04-16	Local Access V	Alert Notifications ∨
Central High School Serial Number: 2306015013010	•	-	٠	2025-04-16	Launch Bulk Operation Mode 0	hange
					Download Alerts and Even	ts

System List

Each system in the account will be listed and show the following:

- System name with serial number
- System status
- Local access status
- Alert Notification status
- Last check-in date

A search bar is provided in the upper right to search for a specific system.

Individual systems can be selected with the checkbox to the left of each system, or the entire list of systems may be selected using the checkbox in the header next to System Name.

Six functions are available on the System Management screen:

- 1. Launch Bulk Operation Mode Change
- 2. Download Alerts and Events
- 3. Transfer Ownership
- 4. Reset Digital Keys
- 5. Local Access
- 6. Alert Notifications

NOTE

It will take a short period of time to reflect changes made. Refresh the screen to pull in the latest data.



Critical Cellular Firmware Update

Systems will be flagged if they require a critical firmware update. This is specifically for two-way communications with MX Cloud. If any systems in your inventory are flagged, active or awaiting activation, the MX Cloud dashboard will also show a warning at the top of the screen.



NOTE

For more information on this critical firmware update, see technical bulletin B-110 at <u>support.carmanah.com</u>. Firmware update must be done locally on site using MX Field App.





8.2 Bulk Operation Mode Change

Bulk Operation Mode Change allows adjusting the operation mode to or from Always On and Trigger/Standby on one or more systems.

This function is restricted by the following parameters:

- Only available to systems with MX Plus or MX Pro subscriptions.
- Only available to systems set to Always On or Trigger/Standby.
- Not applicable to systems equipped with RRFBs.

This feature is effective when required to turn on/off the beacon(s) for a large number of systems during special events or inclement weather conditions.

To bulk change operation mode follow the steps below:

- 1. Click on Launch Bulk Operation Mode Change.
- 2. Select all systems that are to have their operation mode changed. For easy identification of certain groups of systems, it is recommended to rename them accordingly (see <u>Section 4.1</u>).
- 3. Click on Set to Always On Mode or Set to Trigger/Standby Mode to change the operation mode as required. The change may take a few minutes to come into effect.

Bulk Operation Mo	de Change		
Always On Mode Trigger/Sta	andby Mode		Q Search
System Name	Status 🖗	Current Operation 🔞	Last Check In Date
Serial Number: 2306015013019	•	<u>B</u>	2025-03-04
	Set to Always On Mode? You're about to set the Operation Mode to Alwa 1st and Main	iys On for the following system(s):	×
	① Beacons will flash continuously when system Are you sure you want to change to Always On I	em is set to Always On . mode for the selected system(s)?	
		Set to Always On Car	ncel
Bulk Operation Mo	de Change		
Always On Mode Trigger/Sta	andby Mode		Q Search
System Name	Status 🕐	Current Operation 🔮	Last Check In Date
Serial Number: 2306015013019	•	ON	2025-03-05



8.3 Download Alerts and Events

Download Alerts and Events compiles all events and alerts over the last 180 days for all systems with an active MX Plus/Pro subscription on the account. A link is emailed to the user to download the data as a CSV.

Download Alerts and Events	×
An email will be sent to "mbattagello@synapse-its.com" with a link to download a CSV file of Aleri and Events. This download is limited to 180 days of history and a maximum of 10,000 records. Or systems with active MX Plus or MX Pro subscriptions will be included in the download.	s nly
Do you want to download Alerts and Events?	
Download Can	cel

8.4 Transfer Ownership

Systems may be transferred from one MX Cloud account to another MX Cloud account. Most users will not have to utilize this feature. MX Authorized Distributors most often use the Transfer Ownership function to transfer MX Cloud systems directly to their customers.

To transfer a system, follow the steps below:

- 1. Select all systems that are to be transferred by using the checkboxes to the left.
- 2. Click on Transfer Ownership.
- 3. Enter the email address of the MX Admin on the MX Cloud account that should receive this system.
- 4. Click on Initiate Ownership Transfer to complete. The system will remain in your inventory until the transfer is accepted. The MX Admin will receive an email to accept this transfer.

System Manageme	ent	Q Search Nam	e or Serial Number		
System Name	Status 😮	Local Access 3	Alert Notification @	Last Check In Date	① Please select at least one system to use buttons listed down below.
Serial Number: 2306015013019	•			2025-04-15	Transfer Ownership Reset Digital Keys
Bay St W Speed Sign Serial Number: 242899999022	٠		٠	2025-04-16	Local Access V Alert Notifications V
Central High School Serial Number: 2306015013010	•	•		2025-04-16	Launch Bulk Operation Mode Change
					Download Alerts and Events

Initiate ownership transfer of the s	elected systems
You're about to initiate the transfer of ownership for	r the following system(s):
1st and Main Central High School	
Please enter the email address of the MX Admin of t	the target account.
example@email.com	
	Initate Ownership Transfer Cancel



8.5 Reset Digital Keys

A digital key is the authorization code to pair with an MX system locally via the MX Field App. Authorized MX Cloud users automatically receive all digital keys for systems associated with the MX Cloud account, eliminating the need to access the pairing button in the power module when on site.

Resetting the digital keys for any or all systems is a way to ensure the systems are secure. Use this function if you wish to lock local access to any unauthorized users. For example, a contractor that is not a user on your MX Cloud account but locally paired while on site with the MX Field App.

To reset the digital key(s) follow the steps below:

- 1. Select all systems that are to have their digital key reset by using the checkboxes to the left.
- 2. Click on Reset Digital Keys.
- 3. Click Reset Digital Keys to complete.

System Managem	ent	Q Search Nam	e or Serial Number		
System Name	Status 🔞	Local Access	Alert Notification 🔞	Last Check In Date	① Please select at least one system to use buttons listed down below.
Serial Number: 2306015013019	•	-		2025-04-15	Transfer Ownership Reset Digital Keys
Bay St W Speed Sign Serial Number: 242899999022	•	•		2025-04-16	Local Access V Alert Notifications V
Central High School Serial Number: 2306015013010	•	-	٠	2025-04-16	Launch Bulk Operation Mode Change
					Download Alerts and Events

Reset Digital Keys You're about to reset the digital keys for the following systems:	×
1st and Main	_
Use of the MX Field App for local access to systems requires a digital key. Resetting the digital key w remove local access to any user who is not an authorized user on your account. This process help keep your systems secure.	ill os
Are you sure you want to reset the digital keys for the selected systems?	_
Reset Digital Keys Cancel	

NOTE

All users on this MX Cloud account will now receive the updated keys automatically.

NOTE

The Event Log will show all users who have locally paired with the system. This is a running log over the past 45 days (MX Plus/Pro) or seven days (MX Lite) of system activity. See <u>Section 4.6</u> for more information.



8.6 Local Access

Local access relates to Bluetooth connectivity using the MX Field App while on-site. MX Cloud can disable local on-site pairing. Locking local access ensures the systems are secure and can only be accessed by authorized users on your MX Cloud account. All users on the MX Cloud account will automatically receive the digital key and will not be required to access the pairing button when on-site. Refer to the MX Field App for more information at <u>support.carmanah.com</u>.

- Local access locked pairing button is disabled in the system's power module. Only authorized MX Cloud users on your account can connect to the system locally via the MX Field App.
- Local access unlocked pairing button is enabled in the system's power module. Any user with access to the power module for pairing can connect to the system locally via the MX Field App.

To lock or unlock local access follow the steps below:

- 1. Select all systems that are to be to be locked/unlocked by using the checkboxes to the left.
- 2. Click on Local Access and choose Lock or Unlock.
- 3. Click on Lock Local Access or Unlock Local Access to complete.



System Manageme	ent	Q Search Nam	e or Serial Number		
System Name	Status 😮	Local Access	Alert Notification ②	Last Check In Date	⑦ Please select at least one system to use buttons listed down below.
Serial Number: 2306015013019	•	-		2025-04-16	Transfer Ownership Reset Digital Keys
Bay St W Speed Sign Serial Number: 2428999999022	٠		٠	2025-04-17	Local Access ∨ Alert Notifications ∨
Central High School Serial Number: 2306015013010	٠	•		2025-04-17	Launch Bulk Operation Mode Change
					Download Alerts and Events

System Manageme	nt	Q Search Name	e or Serial Number		
System Name	Status 😨	Local Access 😢	Alert Notification (2)	Last Check In Date	① Please select at least one system to use buttons listed down below.
Serial Number: 2306015013019	•	-	.	2025-04-16	Transfer Ownership Reset Digital Keys
Bay St W Speed Sign Serial Number: 2428999999022	٠		٠	2025-04-17	Local Access V Alert Notifications V
Central High School Serial Number: 2306015013010	•	•		2025-04-17	Launch Bulk Operation Mode Change
					Download Alerts and Events

NOTE

The MX Field Technician role is a convenient way to provide local access to a contractor or technician without allowing them access to your systems in MX Cloud. See <u>Section 9</u> for more information.



8.7 Alert Notifications

Alert Notifications relate to email/SMS alerts that are sent for each system. See <u>Section 10.2</u> to opt-in to alerts.

- Alert notifications silenced prevents email/SMS notifications for each selected system from being sent to opted-in MX Cloud users on the account.
- Alert notifications enabled enables email/SMS notifications for each selected system to opted-in MX Cloud users on the account.

To silence or enable alert notifications follow the steps below:

- 1. Select all systems that are to be to be silenced/enabled by using the checkboxes to the left.
- 2. Click on Alert Notifications and choose Silence or Enable.
- 3. Click on Silence Alert Notifications or Enable Alert Notifications to complete.



silericing alert notifications for a system prevents sending of email and SMS notifications for warnings or critical alerts to users and admins. The system will continue to register alerts, but no notifications will be sent. This feature is intended to reduce the number of alerts a user receives during system maintenance and testing.

ystem Managem	ent	Q Search Nam	e or Serial Number		
System Name	Status 😧	Local Access	Alert Notification @	Last Check In Date	① Please select at least one system to use buttons list
Serial Number: 2306015013019	•	•		2025-04-16	Transfer Ownership R
Bay St W Speed Sign Serial Number: 2428999999022	•	•		2025-04-17	Local Access V Ale
Central High School Serial Number: 2306015013010	•	-		2025-04-17	Launch Bulk Operation Mode Change
					Download Alerts and Events

System Manageme	ent	Q Search Nam	e or Serial Number		
System Name	Status 😮	Local Access (2)	Alert Notification 🕖	Last Check In Date	① Please select at least one system to use buttons listed down below.
Serial Number: 2306015013019	•	-		2025-04-16	Transfer Ownership Reset Digital Keys
Bay St W Speed Sign Serial Number: 242899999022	٠			2025-04-17	Local Access ∨ Alert Notifications ∨
Central High School Serial Number: 2306015013010	٠	.		2025-04-17	Launch Bulk Operation Mode Change
					Download Alerts and Events



9.0 Users

9.1 Overview

The Users screen allows you to manage the users on your MX Cloud account. This screen is only available to MX Admins.

User Management				
Invite User to Account		Q Search Name		
Name	Email	User's Role 🕄	Last Login	
Jane Doe	janedoe@carmanah.com	2 22	never logged in	Ŵ
John Smith	johnsmith@carmanah.com	20	never logged in	Ŵ
Mike Battagello	mbattagello@synapse-its.com	L ©	2024-03-19	Ŵ

User List

Each user in the account will be listed and show the following:

- Name of the user
- Email of the user
- User's role
- Last login date/time

A search bar is provided in the upper right to search for a specific user.

User Management				
Invite User to Account		Q Mike		
Name	Email	User's Role 🕑	Last Login	
Mike Battagello	mbattagello@synapse-its.com	L ©	2024-03-19	⑩

There are four functions available on the Users screen:

- 1. Review the current user list.
- 2. Invite new users.
- 3. Change a user's role.
- 4. Delete the user.



9.2 Invite User to Account

MX Cloud offers four user roles:

- 1. MX Admin full access to the account.
- 2. MX Operator can do everything but access System Management and User screens.
- 3. MX Field Technician receive digital keys for local access but no MX Cloud access.
- 4. MX Observer has read-only access to the account.

See the image below for an overview of each role.

MX Admin The highest level of account authority. Manage all account aspects, including adding/removing users and transferring system ownership. One or more MX Admins are required for each account. MX Operator Can manage and edit all systems 20 within the MX account but cannot edit users or transfer system ownership. MX Field Technician Are provided Digital Keys 20 to all systems in the account but cannot access the account through MX Cloud. Ideal for field technicians who require local access to systems through the MX Field App. MX Observer Receive read-only access to your 20 account. They can view the account through MX Cloud but cannot make any changes or edits to systems or users.



To invite a new user, follow the steps below:

- 1. Click on Invite User to Account.
- 2. Enter a valid email for the user you want to invite. Select the user's role from the drop-down.
- 3. Click on Invite User to complete.
- 4. Users must follow the instructions in the welcome email to gain access to the account.

ample Customer		Sample Custome	r				
nter the new user's email addre neir profile, password and log in	ess below. They will receive an email invitation to set up n.	Enter the new user's email address below. They will receive an email invitation to set their profile, password and log in.					
user@carmanah.com		user@carmanah.com					
lease enter user's email.		Please enter user's email.					
MX Operator		MX Operator					
MX Operator MX Field Technician MX Observer			Invite User				
Jser Managem	ent ^{nt}	Q Search Name					
Jser Managem Invite User to Accour	ent nt Email	Q Search Name	Last Login				
Jser Managem Invite User to Accour Name Carmanah User	ent nt Email user@carmanah.com	C Search Name User's Role	Last Login 2024-03-07	Ŵ			
Jser Managem Invite User to Accour Name Carmanah User Jane Doe	ent t t janedoe@carmanah.com	C Search Name User's Role C C C C C C C C C C C C C C C C C C C	Last Login 2024-03-07 never logged in	Ŵ			
Iser Managem Invite User to Accour Name Carmanah User Jane Doe John Smith	ent t t int Email user@carmanah.com janedoe@carmanah.com	Search Name User's Role • Log Log Log Log Log Log	Last Login 2024-03-07 never logged in never logged in	ŵ ŵ			

NOTE

Users that are added will show once they have followed the information in the welcome email to complete their setup.



9.3 Change User Role

MX Admins can change any user's role by clicking on their respective User's Role icon.

User Management	Jser Management						
Invite User to Account		Q Search Name					
Name	Email	User's Role 😨	Last Login				
Carmanah User	user@carmanah.com	(20)	2024-03-07	Ŵ			
Jane Doe	janedoe@carmanah.com	22	never logged in	Ŵ			
John Smith	johnsmith@carmanah.com	20	never logged in	Ŵ			
Mike Battagello	mbattagello@synapse-its.com	L ©	2024-04-01	Ŵ			

To change a user's role, follow the steps below:

- 1. Click on the desired User's Role icon.
- 2. Choose the new role for this user.
- 3. Click on Change Role to complete.

User's Role	n User's role		×
Current Role		MX Operator	
New Role		MX Operator	~
		MX Operator	
		MX Admin	
	Change	MIX Field Technician	
	change	wix Observer	

User Management				
Invite User to Account		Q Search Name		
Name	Email	User's Role 😨	Last Login	
Carmanah User	user@carmanah.com	20	2024-03-07	Ŵ
Jane Doe	janedoe@carmanah.com	22	never logged in	Ŵ
John Smith	johnsmith@carmanah.com	20	never logged in	Ŵ
Mike Battagello	mbattagello@synapse-its.com	20	2024-04-01	Ŵ

NOTE

Users cannot adjust their own roles once created.



9.4 Delete User

MX Admins can delete any user by clicking the trash can icon to the right of the name of the user you want to remove.

To delete a user, follow the steps below:

- 1. Click on the trash can icon to the right of the desired user.
- 2. Confirm that this is the user you wish to delete.
- 3. Click on Delete to complete.

User Management				
Invite User to Account		Q Search Name		
Name	Email	User's Role 🚱	Last Login	
Carmanah User	user@carmanah.com	22	2024-03-07	Û
Jane Doe	janedoe@carmanah.com	22	never logged in	団
John Smith	johnsmith@carmanah.com	20	never logged in	Ŵ
Mike Battagello	mbattagello@synapse-its.com	L ©	2024-03-19	Ŵ



User Management					
Invite User to Account	I	Q	Search Name		
Name	Email	U	ser's Role 😧	Last Login	
Jane Doe	janedoe@carmanah.com		22	never logged in	Ŵ
John Smith	johnsmith@carmanah.com		20	never logged in	Ŵ
Mike Battagello	mbattagello@synapse-its.com		L ©	2024-03-19	Ŵ

NOTE

Users may be deleted using this function as long as one MX Admin is active. You cannot delete your own account.

10.0 Account and Profile Management

10.1 Overview

Clicking on your name in the upper right corner provides access to manage your profile details, access help and support resources and set your notification preferences.

Account Number MX102546 - Account Name 0 - Sample Customer	🍥 Mike Battagello 👻

10.2 User Profile

This screen allows for setting up the following:

- User's first and last name
- User's mobile phone number (for SMS notifications)
- User's alert notification preferences
- Two-factor authentication

Alert notifications will be sent to your profile email address and mobile phone number on this screen. Once all edits have been made, click on Submit to save.

Profile and Notifica	ition Preferences							
	F	First Name*			Last Name*			
User Information for mbattagello@synapse-its.com		Mike		Battagello				
	Р	Phone Number [*] (used for SMS notifications - See below)						
		250-123-4567						
Votifications	S	elect the types of notifica	tions you want to receiv	ve:				
Opt in to receive notifications.		Email/SMS Trigg			Warnings 😑	Critical Alerts	Subscription Reports	
Note: These notification settings will apply to all systems in this account. Individual systems can be silenced on the System Management page. Notifications will only apply to systems with active subscriptions.		Will be sent to mbattagello@synapse-lts.com						
		Will be sent to phone number above					N/A	
Two-Factor Authentication Bring more safety to your accounts. Note: Two-Factor Authentication settings w	ll apply to all your accounts.	Enable Two-Factor Auth Enable Two-Factor Auth Disable Two-Factor Auth	hentication via Email. hentication via SMS. hentication.				Subr	
Select the typ	es of notifications you want to rece Email/SMS	ive: Triggers •	Warnings 🗕	Critical Ale	erts 🖲	Subscription Rep	orts	
Will be sent t	o mbattagello@synapse-its.com							
Will be sent t	o phone number above					NI/A		



Notifications

Below is an example of what information you will receive with an email or SMS alert.



NOTE

It is recommended, at a minimum, to select critical alerts for SMS and/or email notifications.



Whitelist or flag this email address as a "safe sender" – <u>mxcloud@mxcloud.live</u>. This will help receive email alerts successfully into your inbox, if opted-in. Check your spam or junk folder as required.



Subscription Reports

Account administrators are automatically opted into subscription reports. Other users will not have access to this feature. An email will be sent each quarter with the following:

- Subscriptions expiring in the next 90 days
- Active subscriptions not expiring soon
- Expired subscriptions

This is your subscript	ion report for sy	tems in your	MX Cloud accou	nt. Systems with expired subscriptions will have limited access in MX Clo
To view your system	s and manage yo	ur subscriptic	ns, log in to <u>MX (</u>	Cloud.
Systems expiring in	the next 90 days	(1):		
System Name	Serial Number	Subscription	Days Remaining	Expiry Date
MX2306015012005	2306015012005	MX Pro	50	Dec 13, 2023
Your other active sy	stems (18):			
System Name	Serial Number	Subscription	Days Remaining	Expiry Date
MX2306015012012	2306015012012	MX Pro	178	Apr 19, 2024
MX2306015012041	2306015012041	MX Pro	178	Apr 19, 2024
MX2306015012019	2306015012019	MX Pro	179	Apr 21, 2024
MX2306015012058	2306015012058	MX Pro	203	May 14, 2024
MX2306015012053	2306015012053	MX Pro	203	May 14, 2024
MX2306015013004	2306015013004	MX Pro	204	May 15, 2024
MX2306015012062	2306015012062	MX Lite	294	Aug 13, 2024
MX2306015012003	2306015012003	MX Plus	305	Aug 25, 2024
MX2306015012055	2306015012055	MX Pro	305	Aug 24, 2024
MX2240015000002	2240015000002	MX Lite	898	Apr 9, 2026
MX2306015012037	2306015012037	MX Lite	898	Apr 9, 2026
MX2306015013015	2306015013015	MX Lite	898	Apr 9, 2026
MX2306015012014	2306015012014	MX Lite	898	Apr 9, 2026
MX2306015012044	2306015012044	MX Lite	898	Apr 9, 2026
MX2306015012051	2306015012051	MX Pro	1042	Aug 31, 2026
MX2306015012060	2306015012060	MX Pro	1682	Jun 1, 2028
MX2306015012038	2306015012038	MX Pro	1682	Jun 1, 2028
MX2240015012052	2240015012052	MX Pro	3508	Jun 1, 2033
Systems that have e	vnired subscrinti	ons (1):		
		(2).		
System Name	Serial Number	Subscription		
MX2306015013009	2306015013009	EXPIRED		
Carmanah Technoloj	gies Support Tear	n		

To stop receiving these emails uncheck this box.

Two-Factor Authentication

This opt-in feature is useful in increasing safety with your profile. If either option is chosen you will be prompted to enter a unique code each time you log in. Once enabled you can disable two-factor authentication by selecting Disable Two-Factor Authentication.





10.3 Change Password

This screen allows a user to change their password:

- 1. Enter your current password.
- 2. Enter your new password.
- 3. Click on Change Password to save the new password. Clicking on Cancel will abort the change and bring you back to the dashboard.

	Change your password?
Account Number MX102546 - Account Name 0 - Sample Customer 🛛 🔊 Mike Battagello 👻	Enter you current password and a new password.
Profile	Current Password
Change Password	Enter your current password.
View Assessed	New Password
0 - Sample Customer	Must contain at least one number and one uppercase and lowercase letter, and length of 8 up to 20 characters.
Help & Support	Change Password
Feedback Sign Out	Cancel

10.4 Miscellaneous

Your Account

This will list all accounts with which you are associated. Most users will only see one account, but if you are a member of multiple accounts, each account will be listed here. Clicking on the account name will take you to that specific account.

Help & Support

This hyperlinked URL will take you to the Carmanah website for frequently asked questions (FAQ) and this MX Cloud guide.

Feedback

This will take you to the Carmanah website to fill out a form with MX Cloud feedback or feature requests.

Sign Out

This will sign you out of your MX Cloud account and take you back to the login screen.


11.0 MX Traffic Analyzer

11.1 Overview

The Analyzer screen contains MX Traffic Analyzer for SPEEDCHECK-MX systems only. MX Traffic Analyzer is Carmanah's web-based tool for reviewing, filtering, and reporting vehicle speed data collected by SPEEDCHECK-MX signs. With this application, users can:

- Load and review downloaded vehicle data
- Analyze vehicle compliance against posted speed limits
- Filter data by specific dates, days of the week, or times of day
- Exclude unusually low or high speeds to refine reports
- Generate charts to visualize traffic patterns and trends
- Export reports as PDFs or raw data as CSV files for further analysis

😥 carmanah*			Log in to MX Cloud User Guide
MX Traffic Analy	yzer		
Summary			🗈 🛱 Y ılı 🕅 🛨 🚯
	86101	12862	73239
	Total Vehicles	Compliant Vehicles	Non-compliant Vehicles
YOUR SPEED			
	4320	15%	51 KPH
Profile	Daily Average Vehicles	Compliance Rate	85% 85th Percentile
System Name Metchosin Rd NB			
Date From 15 Mar 2025 14:08			
Date To 04 Apr 2025 12:26			
Latitude 48.41974	40 KPH	90 KPH	
Longitude -123.48503	Average Speed	Fastest Speed	
Data Time Zone America/Vancouver			

See the user guide located within MX Traffic Analyzer for full details on downloading vehicle data and importing it into MX Traffic Analyzer.



MX Traffic Analyzer requires going on site and downloading the vehicle data from your system using MX Field App. For more information, see the MX Field App guide at support.carmanah.com.



Users that are not part of an MX Cloud account will still get access to MX Traffic Analyzer, which can be accessed from the MX Cloud login page or by going to https://mxcloud.live/trafficanalyzer.







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