Integrating Hanwha Camera Edge Events and Alarms with XProtect

with

BTX (Bridge-to-XProtect)

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Paul Dillon – Video Analytics Specialist

App-Techs Corporation
www.app-techs.com

milestone

App-Techs – What We Do

Enhancing situational awareness to improve security outcomes

Design, install, support, maintain XProtect video systems

Specialties

- Education
- Hospitals & Nursing Homes
- Federal & State Agencies
- Municipal Safety & Security
- Property Management
- Manufacturing
- Banking

Build and deliver Pre-configured VMS + Video Analytics Servers

- EasyNVR XProtect Servers
- EasyVA Video Analytics Servers

Hanwha Silver Channel Partner, Dealer

Milestone Premier Partner, Dealer

- 97% Care Plus Renewal Rate

Develop Software + Third-party Integrations for XProtect

- Health Utility Monitor (HUM)
- Bridge-to-XProtect (BTX)
- Smart Client Plug-ins (Spotlight & Latest Alarm)
- DMap (Device Map)

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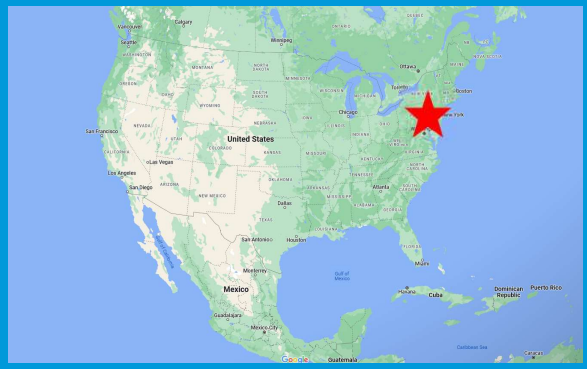


Location: Lancaster, PA, USA
(1 hour west of Philadelphia, PA)

# of Employees: 19

Surveillance systems clients in metro Washington, DC, Philadelphia, Baltimore, Pennsylvania, and NJ.

Software clients all over the world!

BTX® (Bridge to XProtect)

Middleware that transforms third-party events into XProtect alarms

RECEIVE, TRANSPOSE, FILTER & CLASSIFY events / alarms from third-party systems
Handles many protocols & formats and convert devices alarm messages into XProtect-friendly event/alarm records

ASSOCIATE third-party events / alarms with XProtect devices, user-defined events, & PTZ presets
Link the incoming alarm to one of your XProtect so you can see what is happening when an alarm occurs

CHOOSE which actions are taken by XProtect based on alarm type and source
XProtect offers many features to respond to security events

VIEW and REVIEW third-party events / alarms from the XProtect Smart Client
BTX triggers XProtect features to make alarms viewable to security operators. It also communicates useful information about what happened and where it happened to improve situational awareness.

BTX – How it works

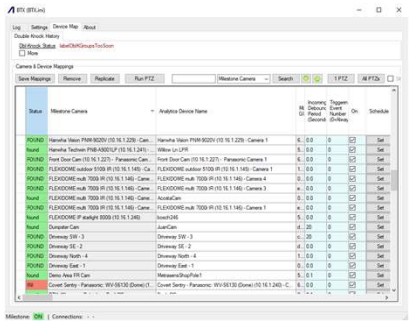
Middleware that transforms third-party events into XProtect alarms

A third-party device detects an event-of-interest.

Ex. *A Hanwha camera detects a person in an unauthorized area.*

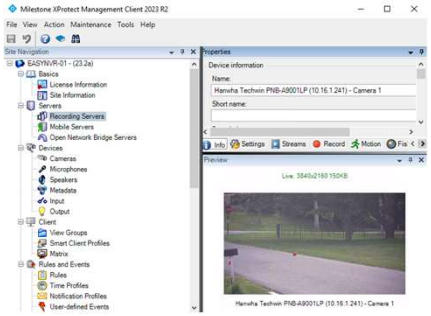
BTX middle-ware receives and classifies the event data.

Based on user-defined settings, filters, and schedules, BTX associates the device event to XProtect camera(s) and generates an alarm record.



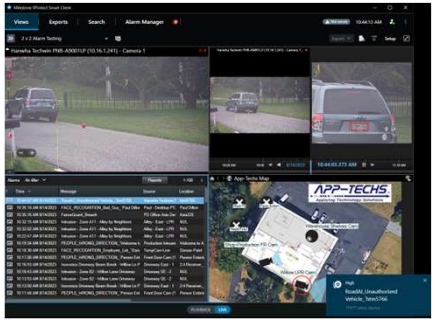
XProtect responds to the commands sent by BTX.

BTX instructs XProtect to trigger rules, which can initiate pre-defined security responses, (notifications, i/o actions, Smart Wall commands, etc)



The security operator views the third-party alarm from the Smart Client, as it occurs.

Pre-configured notifications, device actions, and view commands are received.



BTX® (Bridge to XProtect)

Middleware that transforms third-party events into XProtect alarms

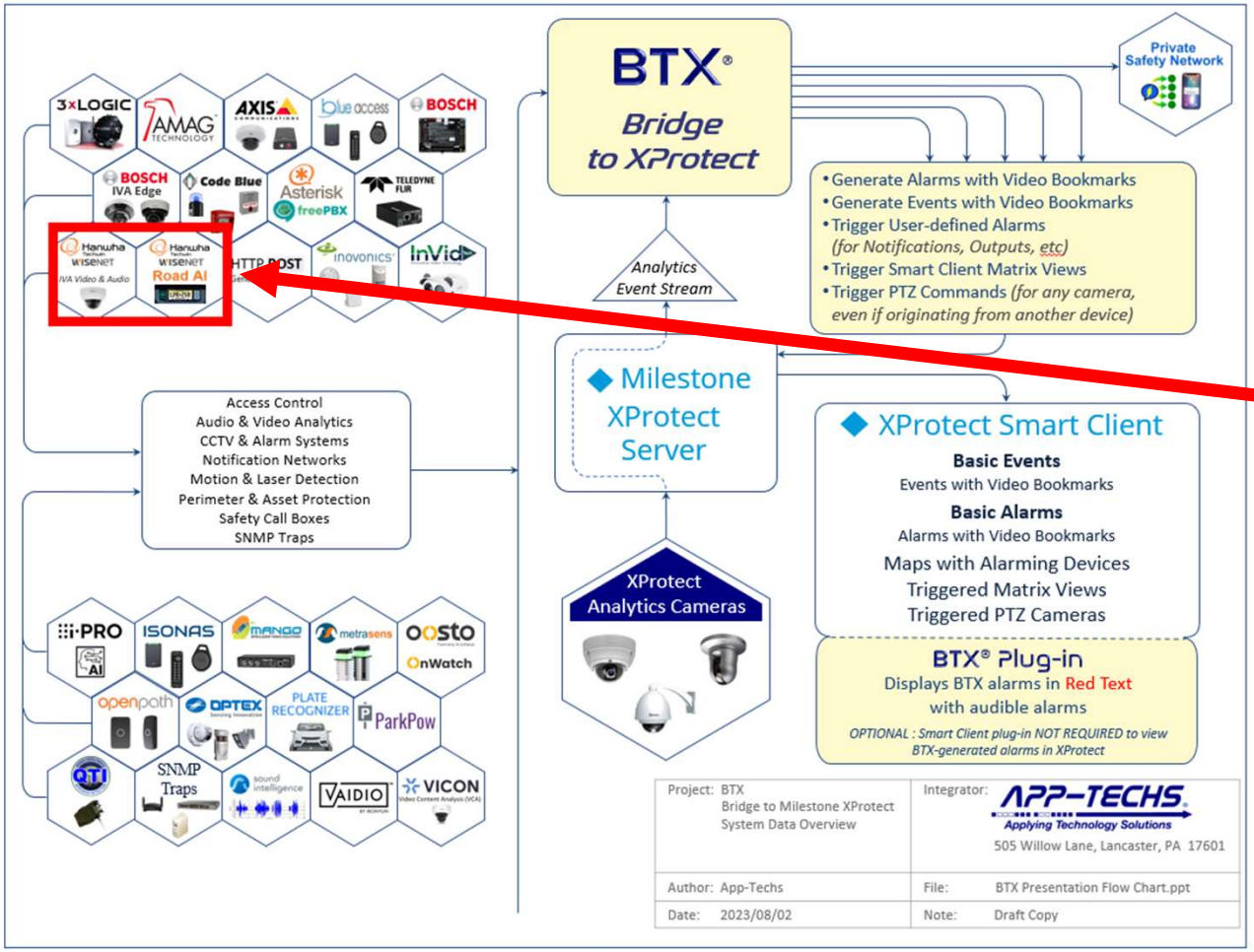
APP-TECHS® Applying Technology Solutions

ONE COPY of BTX can simultaneously integrate many products with XProtect

ACTIVE GUARDIAN	AMAG TECHNOLOGY	Asterisk freePBX	AXIS COMMUNICATIONS ACAP	blue access	BOSCH	BOSCH IVA Edge	Code Blue
(Gunshot sensors)	*(Access Control)*	*(IP Phones)*	*(Edge Analytics)*	*(Access Control)*	*(Security Panels)*	*(Edge Analytics)*	*(Emergency Phones)*
TELEDYNE FLIR	Hanwha Techwin WISENET IVA ·AI	Hanwha Techwin WISENET Road AI	HTTP POST Generic - Universal	inovonics	InVid Tech	i-PRO	ISONAS PURE IP ACCESS CONTROL
(Analytics Encoders)	*(Edge Analytics)*	*(LPR Analytics)*	*(Webhooks)*	*(Wireless sensors)*	*(Thermal Cams)*	*(Edge Analytics)*	*(Access Control)*
MANGO INTELLIGENT VIDEO SOLUTIONS	metrasens	oosto Formerly AnyVision	openpath open	OPTEX Sensing Innovation	ParkPow	PLATE RECOGNIZER	Private Safety Network
(Analytics Encoders)	*(Metal Detectors)*	*(Video Analytics)*	*(Access Control)*	*(Photoelectric Sensors)*	*(Parking Mgmt)*	*(LPR Analytics)*	*(Mass Notification)*
QTI	SNMP TRAP Generic -Universal	sound intelligence	VAIDIO BY IRONYUN	VICON Video Content Analysis (VCA)			
(Ground sensors)	*(Device Events)*	*(Audio Analytics)*	*(Video Analytics)*	*(Edge Analytics)*			

Bridge-to-XProtect (BTX) Data Flow

Middleware that transforms third-party events into XProtect alarms



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Applying Technology Solutions

- Versatile third-party integration software for Milestone XProtect

- Integrates video analytics, access control, SMNP traps, sensors, IP Phones, I/O modules and more.

- Unlocks security features of Milestone XProtect for third-party products and software

Hanwha Integration with BTX

Receive real-time Hanwha edge analytics alerts in Milestone XProtect

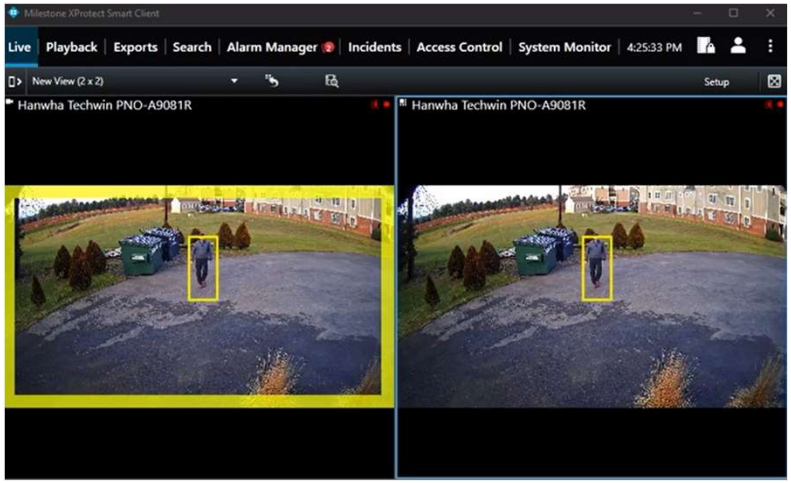
- Advantages to integrating Hanwha edge analytics with BTX

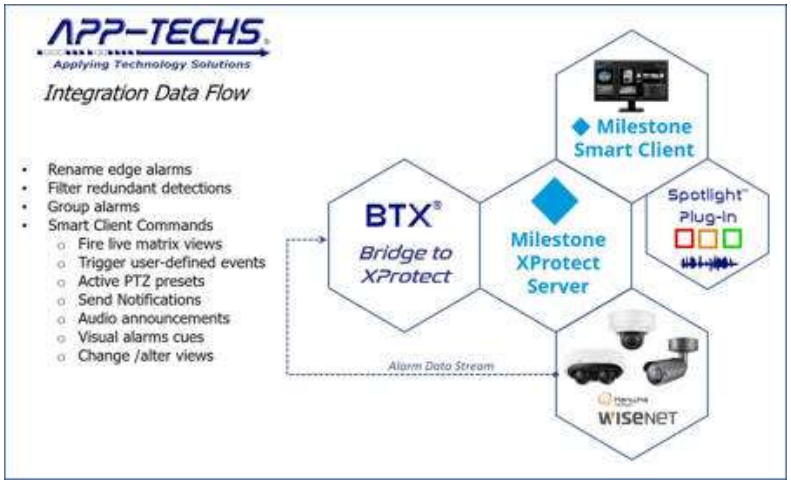
- Receive video analytics alerts as XProtect events / alarms
- NO XProtect "Plug-ins" required
- NO (or very minimal) setup required in XProtect Mgmt Client
- Rename alarms to provide site-specific information
- Create / manage schedule (no alerts from 8am-5pm, etc)
- Bypass limitations of native "driver-based" events in XProtect

    - Management of device "driver" events in XProtect can be time consuming and difficult to configure, troubleshoot, and maintain.

- Trigger XProtect user-defined events
    - Make things happen in XProtect with notifications and other security responses

- Use with HANWHA XPROTECT PLUG-IN
- Hanwha's plug-in is meant for retroactive person / object search
- BTX tells you *NOW*, Hanwha's plug-in lets you search *LATER*





Demo Video

Hanwha Techwin
WISENET
IVA ·AI

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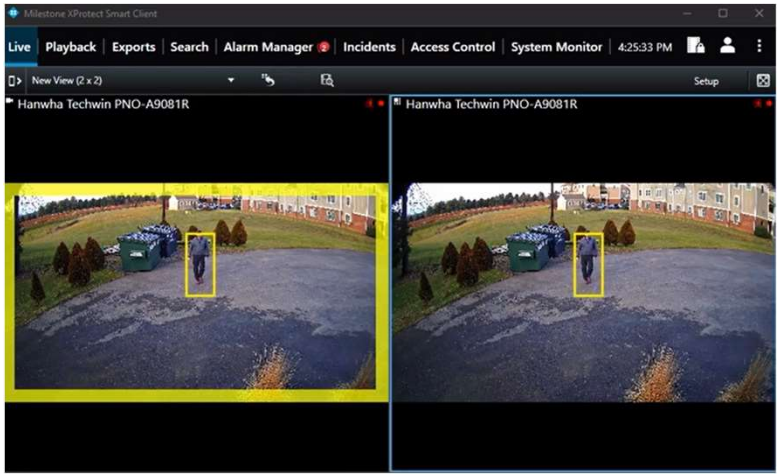
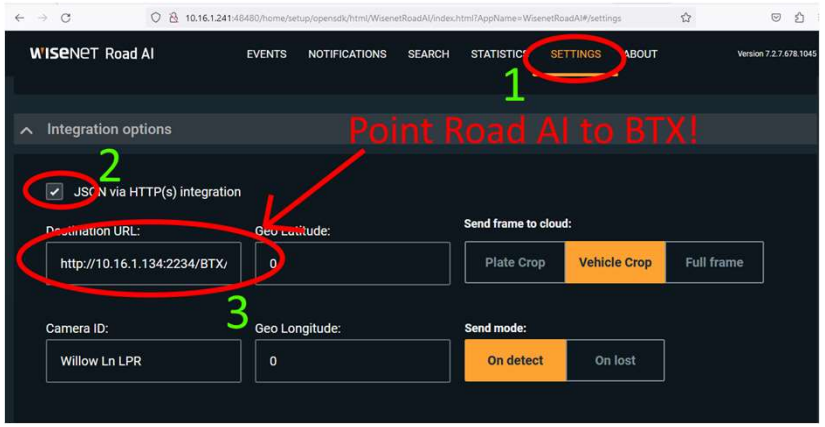


VIEW VIDEO HERE
https://www.app-techs.com/shopcontent.asp?type=hanwha_wisenet

Wisenet Road AI Integration with BTX

REAL-TIME ALERTS WHEN A LICENSE-PLATE-OF-INTEREST IS DETECTED

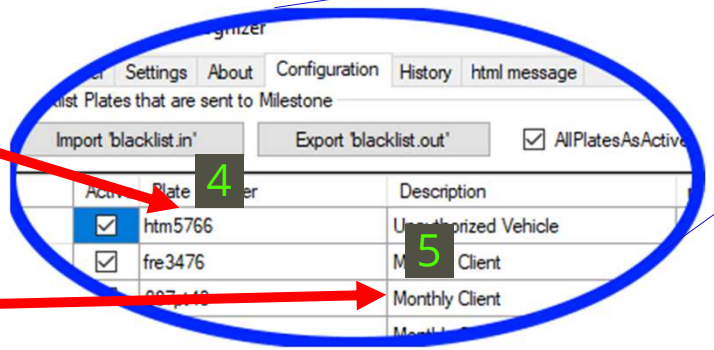
1. BTX receives plate detection metadata from any number of Road AI cameras, all in REAL-TIME.
   - No need to manage license plate lists on each individual device.
   - Just point the Road AI software to BTX.

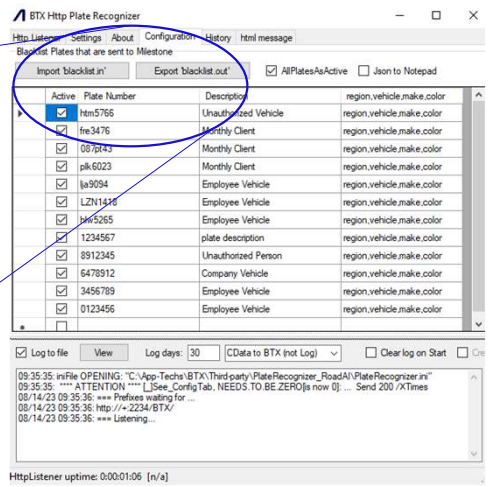


2. BTX centrally classifies license plate detections.
   - Create and manage your own plate lists within BTX.
   - BTX will identify if a detected plate (from any camera!) is on one our your lists.

3. Enter license plate of interest.

4. Specify a plate list



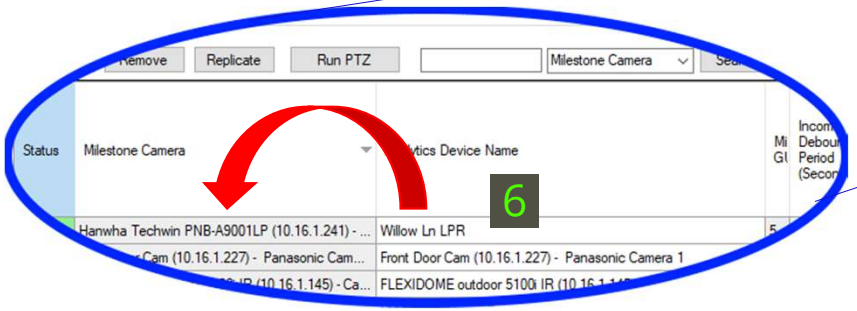


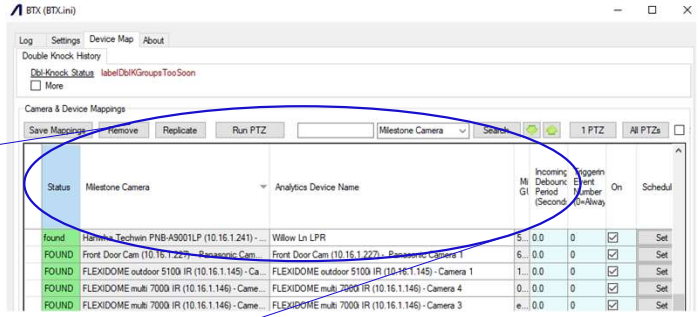
Integration with BTX

REAL-TIME ALERTS WHEN A LICENSE-PLATE-OF-INTEREST IS DETECTED

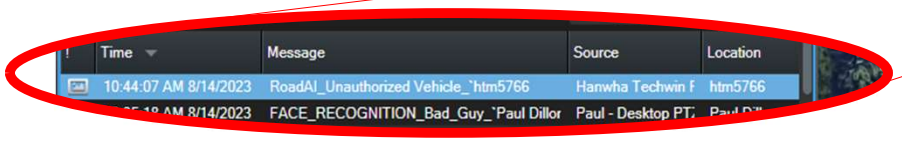
4. If a license plate matches a plate on your list(s) …

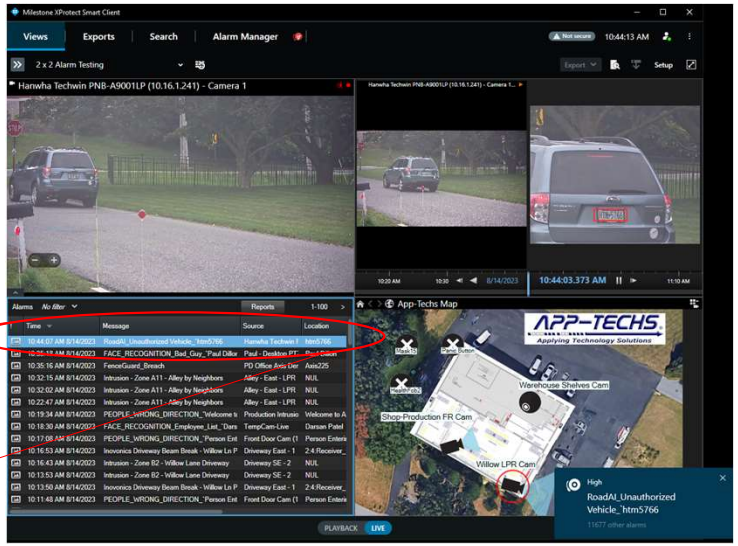
5. BTX associates LPR detections with XProtect cameras





6. BTX generates an XProtect alarm record with video bookmark AND triggers rules and other security actions appropriate for a given list.
   - (Open the gate for employee plates, email security if an unauthorized plate is detected, etc)





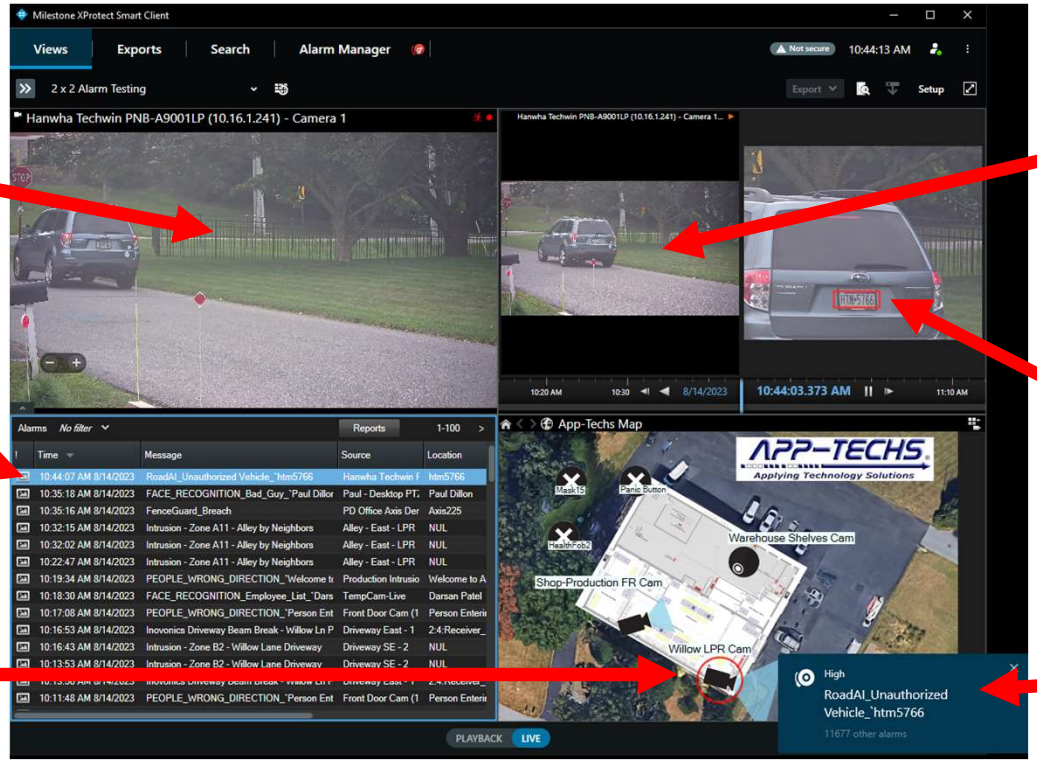
Integration with BTX

REAL-TIME ALERTS WHEN A LICENSE-PLATE-OF-INTEREST IS DETECTED

Display live camera view

Alarm record with video bookmark
(indicates Plate # and list name)

Map icons indicate alarm location



Alarm playback to review previous Road AI detections

Snapshot from Road AI camera embedded in XProtect alarm record!

"Toast" notifications presented in real-time

Demo Video

Hanwha Techwin
WISENET Road AI

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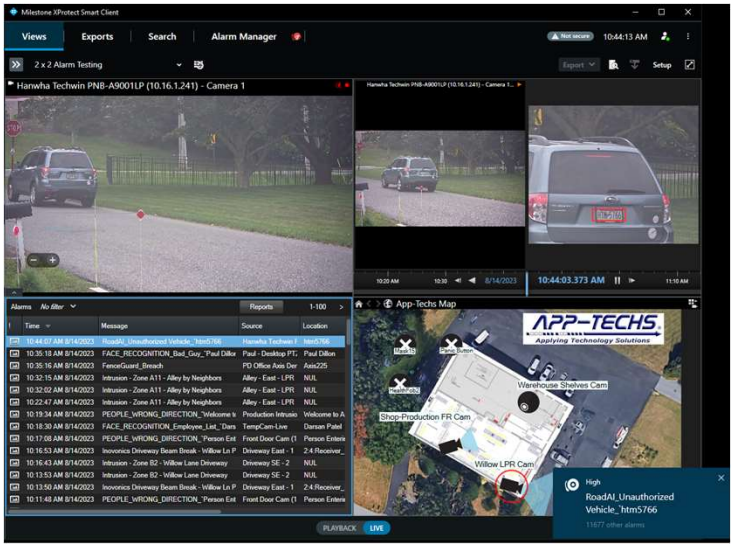

VIEW VIDEO HERE
https://www.app-techs.com/shopcontent.asp?type=hanwha_wisenet_roadai

BTX Pricing

Simple, Straightforward, Scalable

BTX BASE SOFTWARE LICENSE
$1500

ONE-TIME BASE LICENSE COST, NON-RECURRING.

NO PER-DEVICE PRICING
One instance of BTX can manage an unlimited amount of Milestone & third-party devices

NO SUBSCRIPTION-BASED PRICING

LICENSES ARE PURCHASED PER MAC ADDRESS
Multiple BTX instances running on different servers requires separate licensing

SOFTWARE UPGRADE PROTECTION (SUP)
$300 (1yr)

KEEP YOUR SOFTWARE CURRENT

OPTIONAL, RECOMMENDED
Ensures compatibility with the latest releases of Milestone XProtect and Microsoft Windows

INCLUDES GENERAL SOFTWARE TECHNICAL SUPPORT
SUP customers receive free support to maintain software

DISCOUNT PRICES AVAILABLE FOR 2-5 YR PURCHASE
Extend SUP coverage, no yearly billing

BTX SOFTWARE UTILITIES
INCLUDED

BTX PURCHASES INCLUDE SOFTWARE UTILITIES

AMAG Polling App

Bridge to Inovonics App

Code Blue HTTP Listener

Mango Listener

Ironyun Smart Client Plugin

Active Guardian Listener

MXTEST

BTX Service

HTTP Listener Service

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BTX®

Make the XProtect Smart Client *POP*

The **SPOTLIGHT** Plug-in by App-Techs TELLS you what is happening and SHOWS you where attention is required.

The **LATEST ALARM** Plug-in automatically displays an analytics detection shapshot and repeats a “before-and-after” video loop of the event

- **AUDIO ANNOUNCEMENTS**
  User-defined, alarm-specific audio messages are announced directly from the Smart Client workstation speakers – based on alarm keyword matches

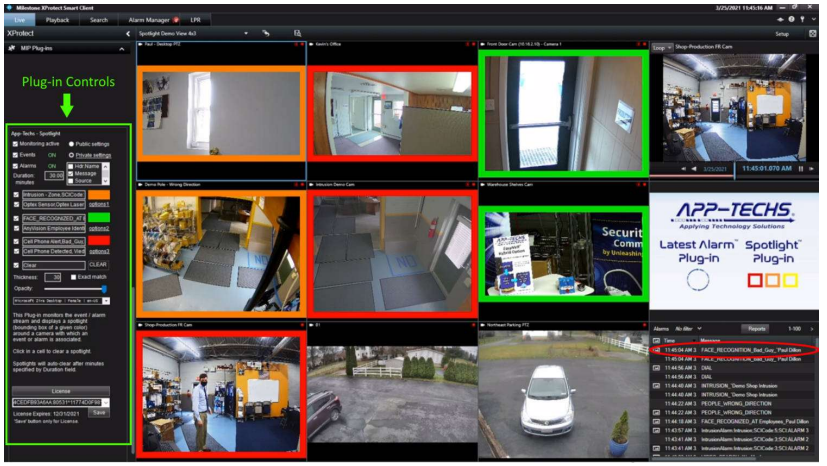
“Hanwha edge camera detects a person by the northwest gate entrance”

- **COLOR-CODED BOUNDING BOXES**
  Visual alarm cues indicate the nature and/or severity of an event or alarm.

- ***POP-UP* WINDOWS and VIEW CHANGES**
  Alert an operator to an alarm by changing what is being viewed on-screen.

- **DISPLAY ANALYTICS DETECTION SNAPSHOTS**
  See what analytics detected automatically and hands-free

- **BEFORE-AND-AFTER VIDEO LOOPS**
  View what led to an event being triggered and what transpired after the event occurred, automatically and hands-free



VIEW DEMO VIDEO
https://www.app-techs.com/shopcontent.asp?type=Spotlight

BTX® (Bridge to XProtect)

Delivering security solutions by simplifying third-party integrations

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Summary

1. Receive **REAL-TIME** Wisenet Road AI license plate detection alerts with BTX.
2. Simplify management of Hanwha edge analytics in XProtect with BTX.
3. App-Techs develops solutions to deliver **SITUATIONAL AWARENESS** to XProtect security operators.

Contact App-Techs

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