



Wisenet WAVE VMS v5 release

v5 Release

KEY NEW FEATURES

v5.0 is a full-featured release focused on cyber security, enhanced usability of existing features, and more administration capabilities including:

- Two-Factor Authentication (2FA)
- Advanced Object Search
- Metadata-Driven Archive Backups
- Web Page Proxy Via Server
- Resource Grouping
- Audio Mapping
- And more...



WISENET WAVE

SECTION 01

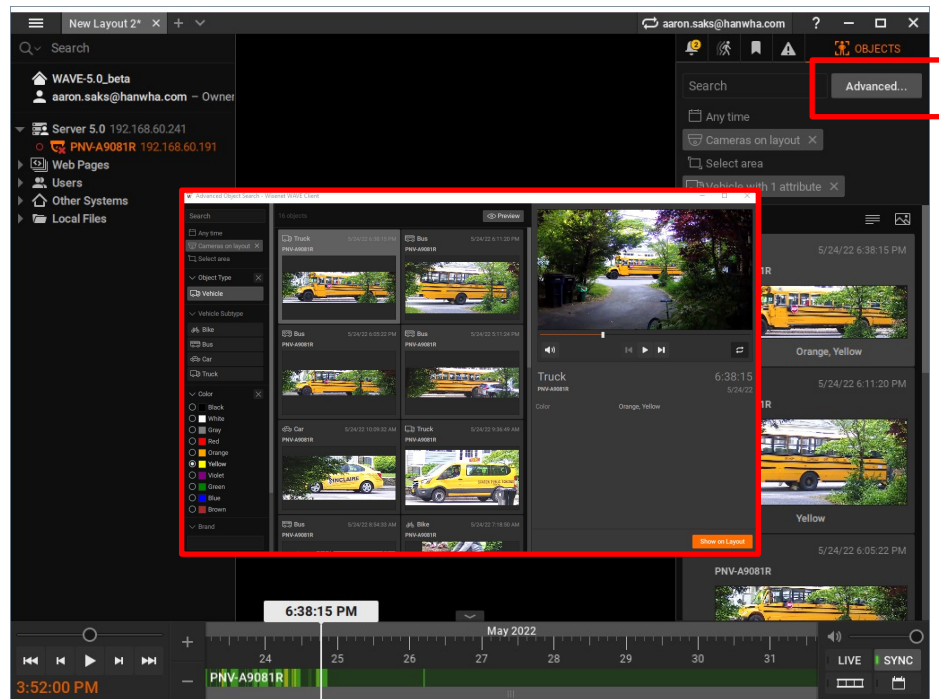
NEW USABILITY / ADMIN FEATURES

- ADVANCED OBJECT SEARCH
- METADATA DRIVEN ARCHIVE BACKUP OPTIONS
- WEB PAGE PROXY VIA SERVERS
- RESOURCE GROUPING
- AUDIO MAPPING
- DESKTOP CLIENT AUTOMATIC UPDATES
- SERVER WEB ADMIN INTERFACE DESIGN
- VIDEO PREVIEW THUMBNAILS

ADVANCED OBJECT SEARCH

Search for AI objects identified by AI cameras and stored with the video archives by attributes (e.g. object type, color, gender, age, clothing, license plate, etc) in a new pop-out window.

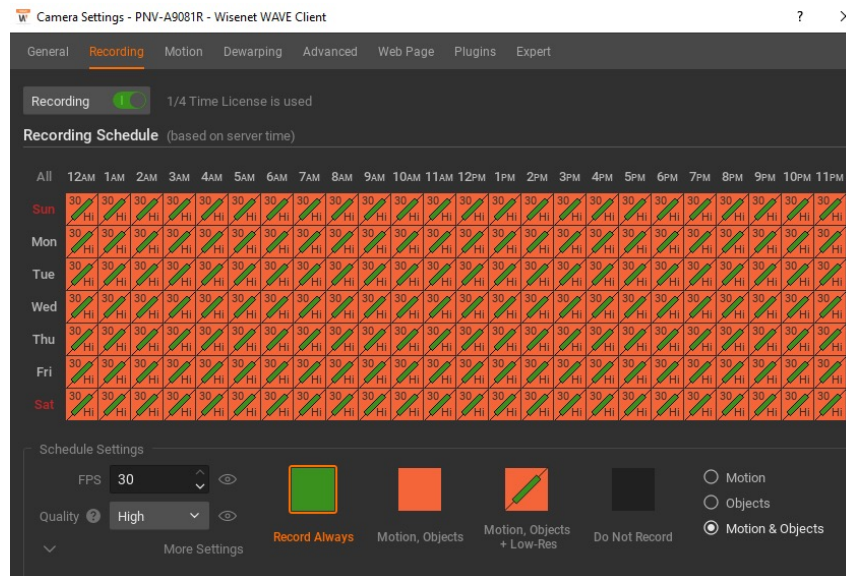
- Search based on object type and attribute (based on available plugins applied to camera(s)) on the Viewing Grid.



METADATA-DRIVEN RECORDING

Configure recording based on associated system metadata - including motion, bookmarks, or objects.

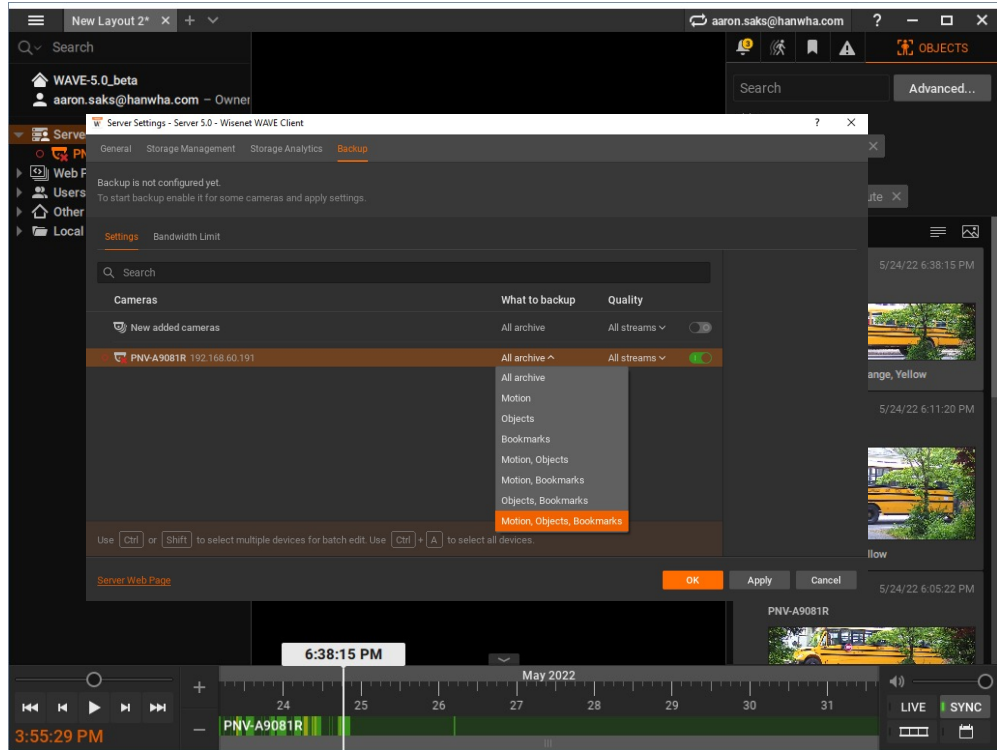
- Choose from the following options:
 - Continuous
 - Motion
 - Objects
 - Motion & Objects



METADATA-DRIVEN ARCHIVE BACKUP

Configure archive backups to allow backup of recorded video archives based on associated system metadata - including motion, bookmarks, or objects.

- Choose from the following options:
 - All archive
 - Motion
 - Objects
 - Video
 - Bookmarks
 - Motion, Objects
 - Motion, Bookmarks
 - Objects, Bookmarks
 - Motion, Objects Bookmarks



AI OBJECT DETECTION EVENT RULE

Generate an Event Rule action when a specific AI Object is detected.

The screenshot shows the WISENET WAVE Client interface. The main window is titled 'Event Rules - Wisenet WAVE Client'. It features a table of event rules and a detailed configuration panel for the selected rule.

#	On	Event	Source	Action	Target	Interval of Action
	☒	On Server Failure	<System>	Show desktop notification	All Users	Every 30 seconds
	☒	On Server Conflict	<System>	Send email	User admin has invalid email address	Every 6 hours
	☒	On Server Conflict	<System>	Show desktop notification	All Users	Every 30 seconds
	☒	On Network Issue	<System>	Show desktop notification	All Users	Every 30 seconds
	☒	On Generic Event	<System>	Show desktop notification	All Users	Instant
	☒	On Plugin Diagnostic Event	<Any Camera>	Show desktop notification	All Users	Instant
	☒	On Server Failure	<System>	Send email	User admin has invalid email address	Every 6 hours
	☒	On License Issue	<System>	Show desktop notification	All Users	Every 30 seconds
*	☒	On Analytics Object Detected	PNV-A9081R	Show desktop notification	All Administrators	Every 1 minute

The detailed configuration panel for the 'On Analytics Object Detected' rule shows the following settings:

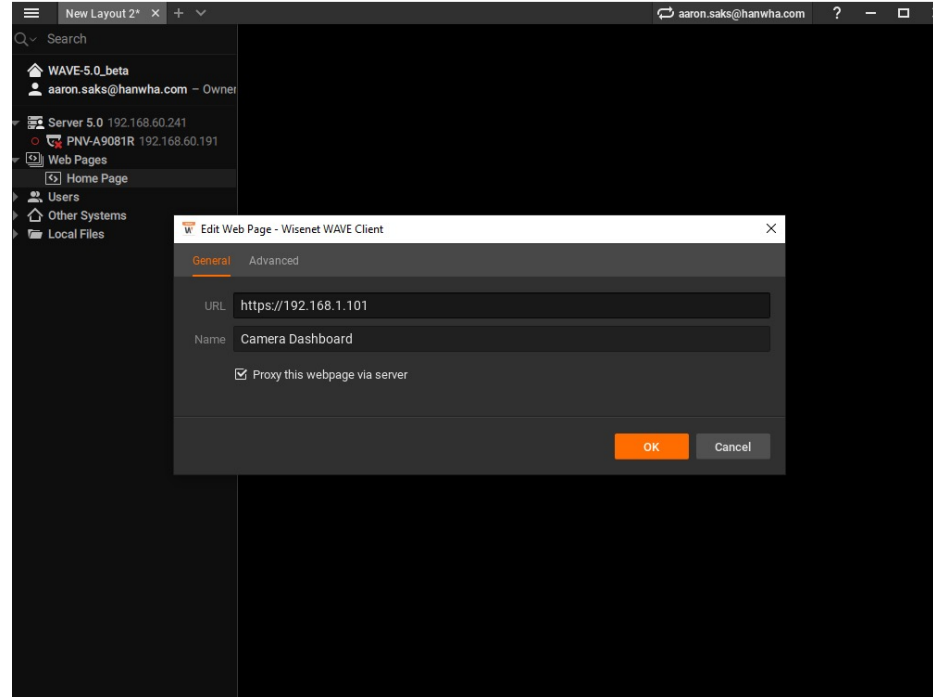
- When: Analytics Object Detected
- At: PNV-A9081R
- Object Type: Face
- Attributes: Face
- Schedule: Person, Vehicle, Bike, Bus, Car, Truck
- Action: Show desktop notification
- Interval of action: No more than once per 1 min
- to: All Administrators
- Force Acknowledgment: ☐

The bottom of the interface shows a timeline view with a date selector set to 5/24/22 and a time display of 3:59:46 PM.

WEB PAGE PROXY VIA SERVER

Proxy local devices or on-prem application web pages via the Server application and view via a remote secured connection.

- Allows for easy, secure access to integrated security products / devices as well as management of underlying IT infrastructure and related services.
- Useful for Wisenet Road AI dashboard and other device configuration without needing to be on site.



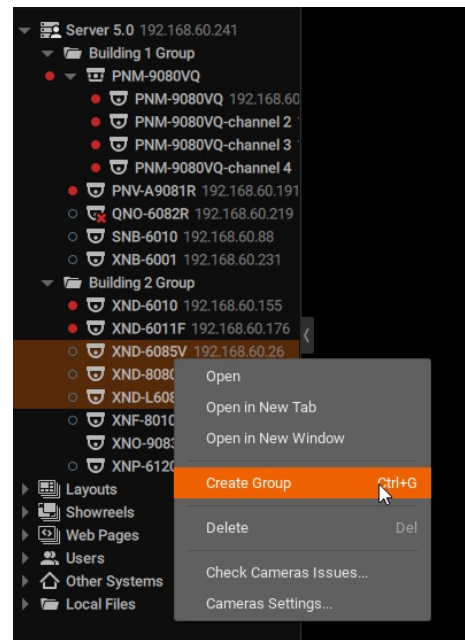
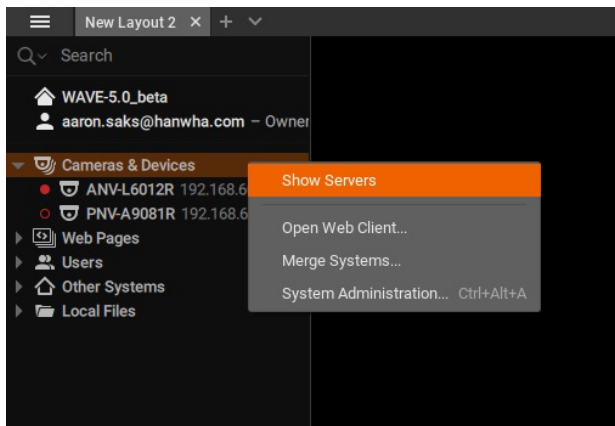
RESOURCE GROUPING

Group resources - cameras, streams, encoders, web pages - in Nx Desktop which can be used in roles and permissions for faster navigation of large systems.

Servers can be hidden for users who just need access to devices globally.

- Resource Groups can be shared via User Roles

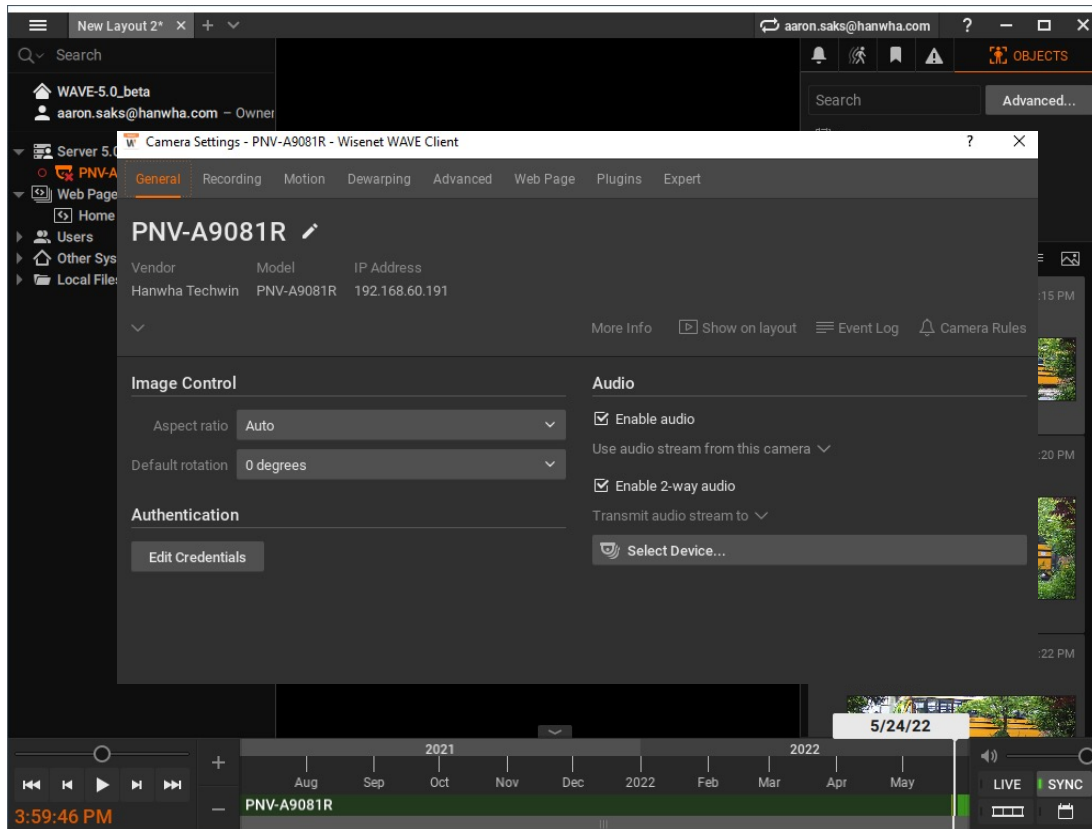
Note: Groups are limited to the Server level and will disappear if dragged.



AUDIO MAPPING

Use audio capabilities from different devices together.

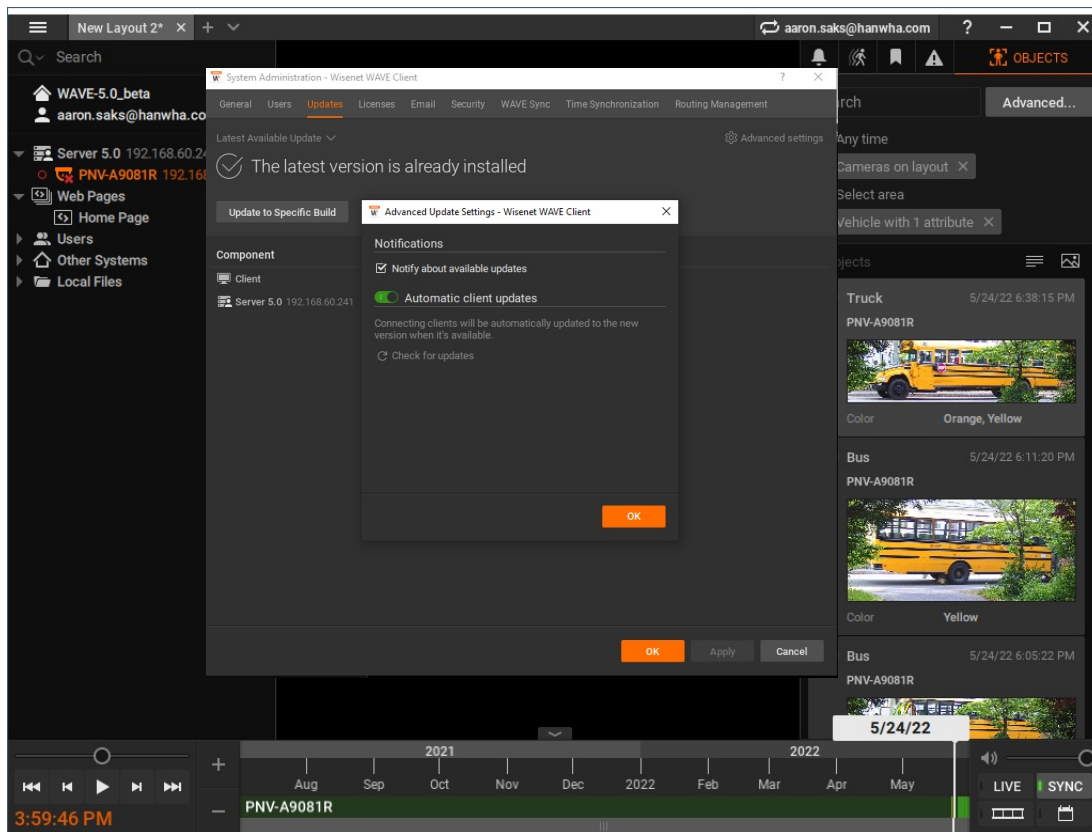
- For example:
 - An audio source from a camera or I/O module with a microphone can be used as an audio source for another camera.
 - A 2 way audio button can be placed on a camera without a microphone and used with a different camera that has a speaker attached to it.



DESKTOP CLIENT AUTOMATIC UPDATES

When enabled, the Desktop client can now download any available updates in the background and will prompt users to restart to receive the latest version.

Note: Auto-updates are optional and users can choose to disable them.



SERVER WEB ADMIN INTERFACE REDESIGN

The Server Web Admin interface has been redesigned to allow administrators to add / remove users, as well as view detailed information about Servers, Cameras, and Licenses.

The screenshot displays the WISENET WAVE web admin interface. The top navigation bar includes 'View', 'Settings', 'Information', and 'Monitoring'. The left sidebar shows a search bar and a menu with 'System Administration', 'General' (selected), 'Licenses', 'Cameras', 'Users', and 'Servers'. The main content area is titled 'WAVE-5.0' and contains a 'Merge with Another System' button. Below this is the 'WAVE Sync' section with a link to 'https://sync.wavevms.com', the owner 'you', and a 'Disconnect from WAVE Sync' button. The 'System Settings' section includes three checkboxes: 'Enable auto discovery of cameras and servers' (unchecked), 'Send anonymous usage and crash statistics to developers' (checked), and 'Allow system to optimize camera settings' (checked). The 'Security' section includes four checkboxes: 'Enable audit trail' (checked), 'Force servers to accept only encrypted connections' (checked), 'Encrypt video traffic to desktop and mobile clients' (unchecked), and 'Limit session duration to' (checked) with a value of '30 days'. On the right, the 'New License' section shows a license key field, an 'Activate' button, and a message about an unused trial license. Below this is a 'Licenses Summary' table and a 'ZEYE-PBF2-IVZC-FAGS' section with details about the license type, channels, server, hardware ID, status, and expiration date.

WAVE-5.0

Merge with Another System

WAVE Sync

<https://sync.wavevms.com>

Owner - you

Disconnect from WAVE Sync

System Settings

- ☐ Enable auto discovery of cameras and servers
When enabled, the system will discover new cameras and servers. Also, automatically and persistently send discovery requests to cameras in order to update their status. Status check prohibition may be skipped on servers that have failover enabled.
- ☒ Send anonymous usage and crash statistics to developers
Includes information about the System, such as camera modules, firmware versions, number of servers, etc. Does not include any personal information and is completely anonymous.
- ☒ Allow system to optimize camera settings

Security

- ☒ Enable audit trail
Tracks and logs all user actions.
- ☒ Force servers to accept only encrypted connections
Does not affect the connections established by server.
- ☐ Encrypt video traffic to desktop and mobile clients
Enables RTSP traffic encryption.
- ☒ Limit session duration to
30 days

New License

License key: [input field]

Activate

You have an unused trial license. Once activated, it will allow you to record up to 4 cameras for 30 days.

Activate Trial License

Licenses Summary

Type	Channels	Available	In use
Trial	4	4	2

ZEYE-PBF2-IVZC-FAGS

Type	Trial
Channels	4
Server	Server 5.0
Hardware ID	05819f5730b602074f29bbee0ed4f3ad92
Status	OK
Expires	30 Jul 2022, 03:42 PM

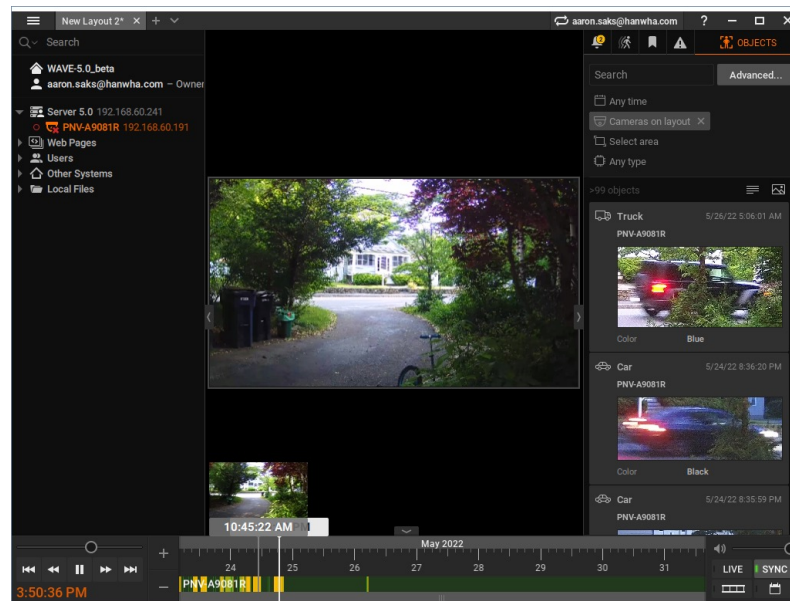
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EASY PLAYBACK CONTROLS

Users can now hover over the timeline to preview video in thumbnail format in Windows and MacOS Desktop clients.

Instant playback – can playback from a few seconds ago.

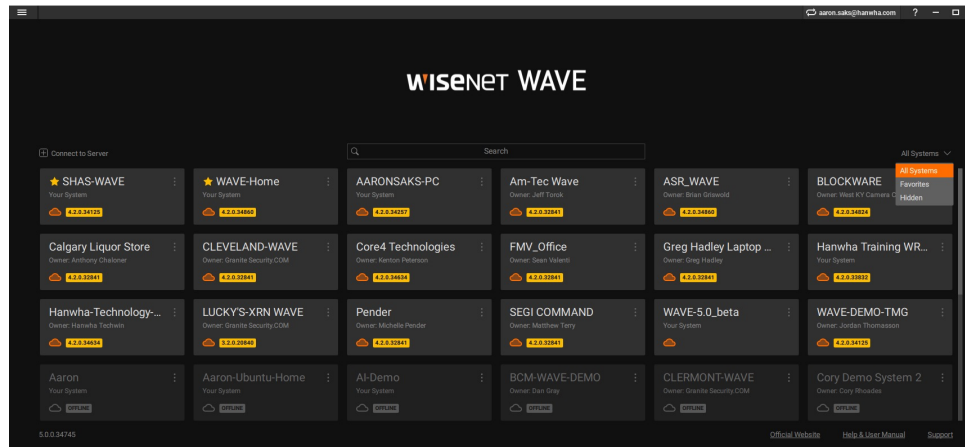


IMPROVED LOGIN PAGE

Easily sort, filter, and hide systems. The System login page now scrolls to accommodate large numbers of systems, improved sorting.

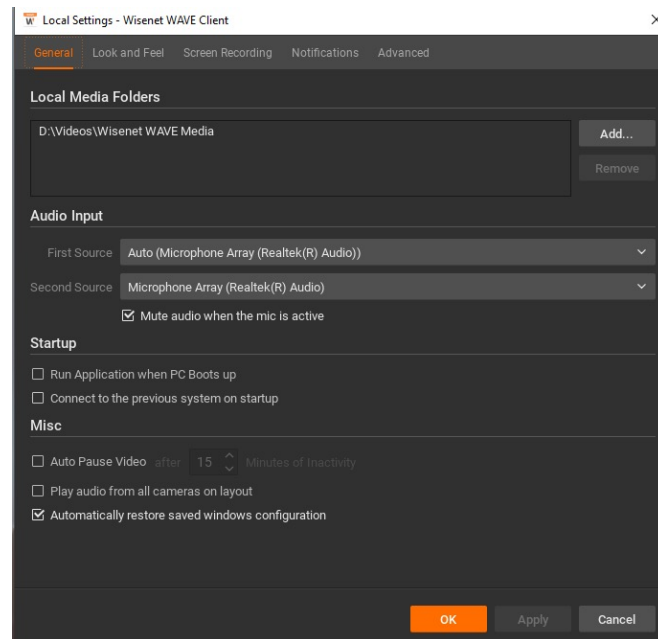
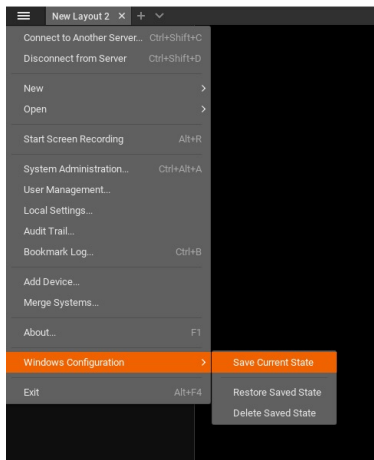
Search by:

- System Name
- Server Name
- IP address (from any of the Servers discovered by the Desktop Client)
- System owner (only for cloud systems)
- User's email (only for cloud systems)



IMPROVED CLIENT WINDOW STATE

Easily save/restore the client state manually or automatically. This is useful for video walls and unattended displays to ensure they always display correctly.



UPDATED SUPPORTED PCs.

- The Desktop Client now works on Mac computers with Apple Silicon (e.g. Apple M1 chip).
- Added support for MacOS 12 (Monterey).
- Added support for Windows 11.
- Added support for Windows Server 2022.

SECTION 02

NEW CYBER SECURITY MEASURES

- TWO-FACTOR AUTHENTICATION (2FA)
- ENCRYPTED ARCHIVES
- MORE SECURED CONNECTIONS

TWO-FACTOR AUTHENTICATION

A system wide setting that forces all users with Cloud SYNC accounts to use an authentication app (Cloud supports Google Authenticator, Microsoft Authenticator or Duo Mobile) to verify their identity before logging in to a System.

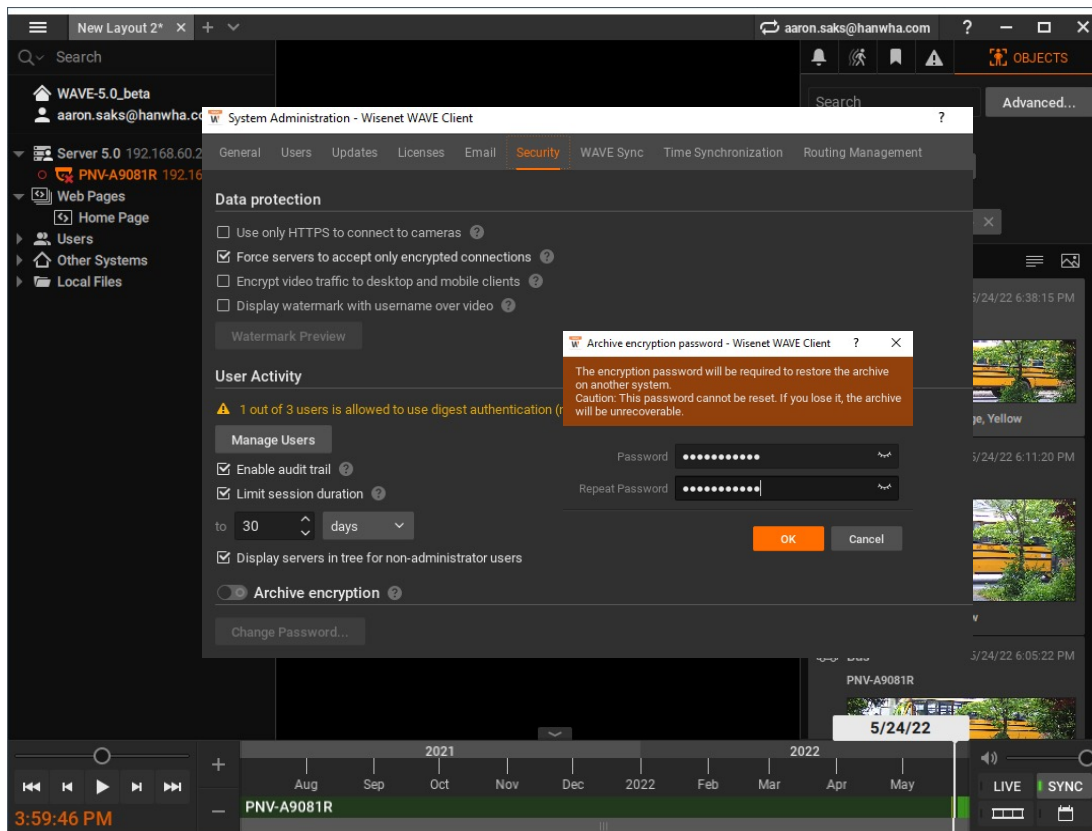
2FA must be enabled on the SYNC account, and non-2FA systems will not be accessible.

The screenshot displays the Wisenet Wave Sync web interface. The top navigation bar includes 'View', 'Settings' (highlighted), 'Information', and 'Monitoring'. The left sidebar shows a search bar and a menu with 'System Administration', 'General' (selected), 'Licenses', 'Cameras', 'Users', and 'Servers'. The main content area is titled 'PM Office (DG)' with a sub-header 'Owner - you'. It features two buttons: 'Merge with Another System' and 'Disconnect from WAVE Sync'. Below these are two sections: 'System Settings' and 'Security'. The 'System Settings' section contains three checkboxes: 'Enable auto discovery of cameras and servers' (unchecked), 'Send anonymous usage and crash statistics to developers' (unchecked), and 'Allow system to optimize camera settings' (checked). The 'Security' section contains five checkboxes: 'Enable audit trail' (checked), 'Force servers to accept only encrypted connections' (unchecked), 'Encrypt video traffic to desktop and mobile clients' (unchecked), 'Mandatory two-factor authentication for cloud users' (checked), and 'Limit session duration to' (checked). The 'Limit session duration to' checkbox is followed by a text input field containing '30' and a dropdown menu set to 'days'. At the bottom of the main content area, it says 'No unsaved changes'. The footer includes links for 'About WAVE Sync', 'Download Wisenet WAVE', 'Support', 'Terms', 'Privacy', and 'Supported Devices', along with the copyright notice '© Hanwha'.

ENCRYPTED ARCHIVES

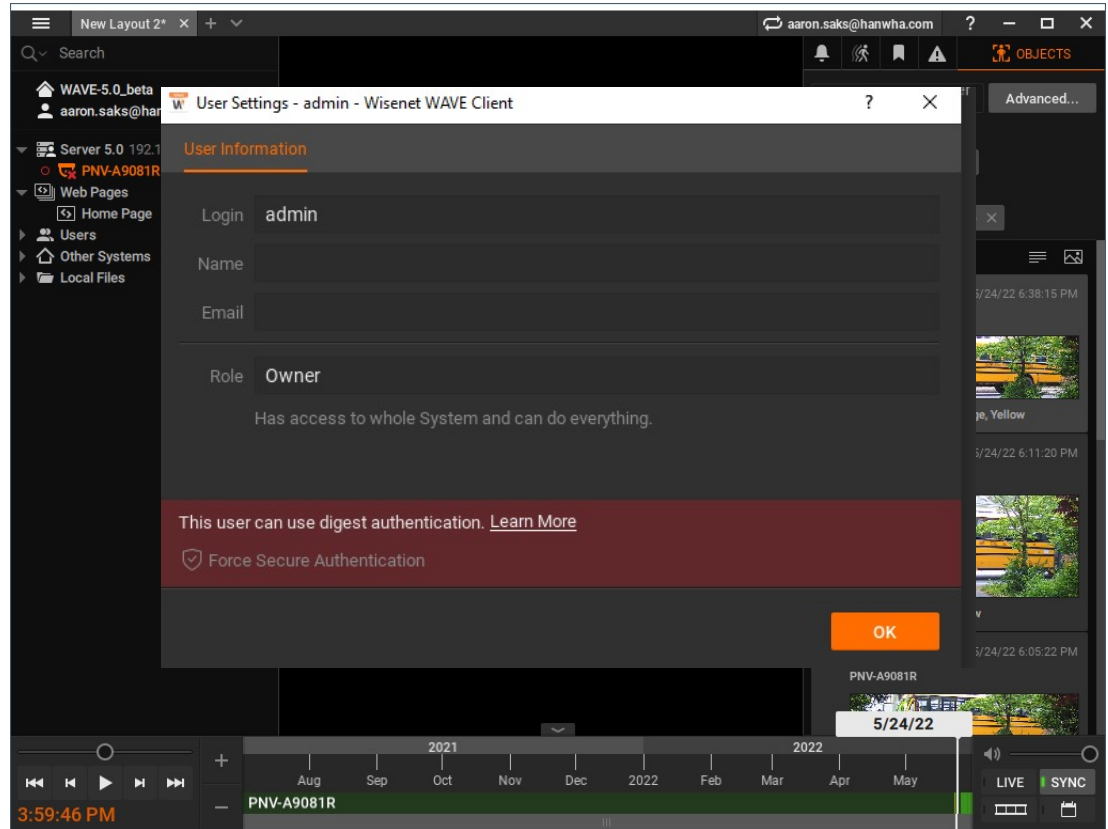
When enabled, recorded video archives will be encrypted and viewable only in the Desktop, Mobile, and Web clients. New Security tab consolidates settings.

- Works on any hard drive or storage medium.
- System owner creates the encryption key.



MORE SECURED CONNECTIONS

All VMS Server connections use SSL/TLS Certificate pinning to render man-in-the-middle attacks impossible. VMS Servers and Clients also use new session-based (bearer token) authentication by default. Digest authentication (deprecated) users can be filtered and upgraded as needed.



NEW / IMPROVED DEVICE INTEGRATION

- PTZ – Wiper, spin, heater soft triggers
- TID-600R button popup rule
- PTRZ/Varifocal lens control from Live UI
- SD card event rules
- Wisenet Road AI integration
- SPC-2000 integration
- Improved high FPS performance

