

Ganz CONTROL Prime / Premier / Global



What is Ganz CONTROL?

Ganz CONTROL is a VMS Software suite

- Allowing Local and Remote Server connections
- Offered in 32bit, and 64bit versions.
- Industry standard Video Management tools, and features
- Local, remote, or global administration.
- Three options for meeting various application needs
 - Prime – Non *License (Free)*
 - Premier – *Paid Licensing*
 - Global – *Enterprise System Management*



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Ganz CONTROL Prime

16 Channel support – No License requirement

Single client – Workstation independent

Single Server – Runs as a Service

1080p Resolution

Entry level offering for customers who wish to test drive the software

Target Market:

- New user looking to try before buy
- Existing user considering migration

Key Benefits:

- Easy-To-Use Server Setup Wizards
- Simple Client and Management Console
- Geared to Help Sell Cameras and Build Brand Recognition
- Instant Playback
- Sequence Explorer – Time Slice
- 16 Ganz IP cameras or 8 Ganz and 8 OEM
 - Over 100+ Manufactures / Over 4000+ IP cameras



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Ganz CORTROL Prime Hardware



Ganz CONTROL Premier

24 / 48 / 96 Channel licensed VMS

Analog/IP Camera supported, No Resolution Limitation

Local server setup – Runs as Service – Multi-Client support

Advanced functionality

Target Market:

- New and existing customer
- Recording 100 channels or Less
- Intrusion/Perimeter analytics
- License Plate reader
- Facial Recognition
- Business Intelligence (Counting)
- Local, Remote administration

Key Benefits:

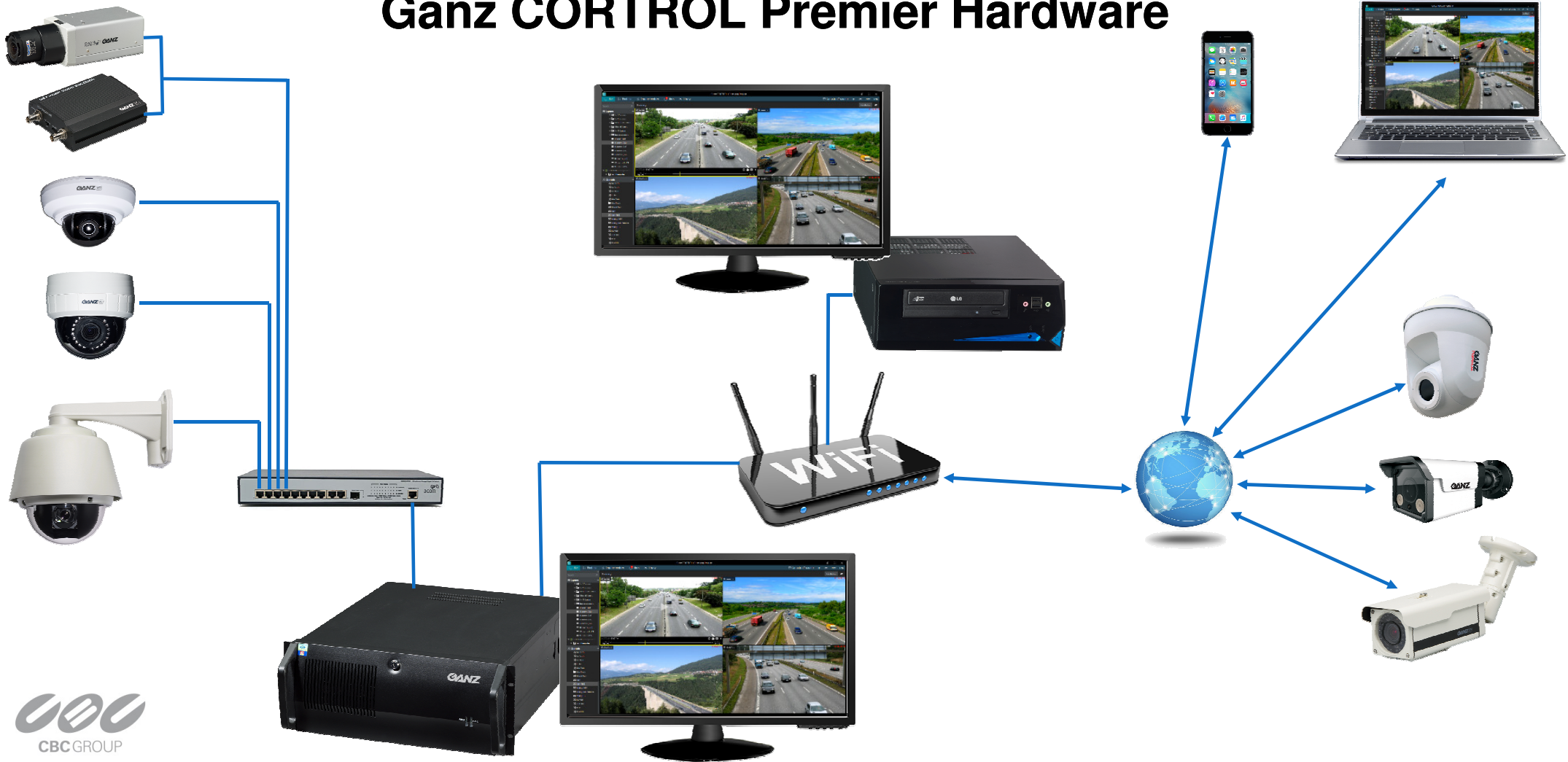
- 4K/8K Ready
- Local VCA (Server side analytics)
- LPR (License Plate Reader)
- Facial Recognition
- Easy-To-Use Server Setup Wizards
- Simple Client and Management Console
- Local Interactive Emaps
- ROI – Region Of Interest Cropping
- No Confusion and Less Support
- Fully Customizable Layouts
- Scalable Client Software
- Over 100+ Manufactures / Over 4000+ IP cameras



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Ganz CONTROL Premier Hardware



Ganz CONTROL Global

CORTROL Global is the *Enterprise System Management*, (*ESM for short*) edition.

- Centralized Administration of Unlimited Recording Servers and Video Channels.
 - Centralized Administration of Unlimited Users / Configurations
 - 50 / 100 / 500 / 1k / 5k Channel support

Target Market:

- New and existing customers
- Users with 100 channels or more
- Intrusion/Perimeter analytics
- License Plate reader
- Facial Recognition
- Business Intelligence (Counting)
- Centralized administration
- Redundancy/Failover requirement

Key Benefits:

- Includes all of CORTROL Premier's benefits
- Advanced Failover
- Archive Replication
- Video Walls
- Centralized User Configuration/Layouts/Maps
- Shared Global Events and Actions
- Easy-To-Use Server Setup Wizards
- Central Management Console
- Global Interactive Emaps
- Centralized Settings for Clients and Admins
- Over 100+ Manufactures / Over 4000+ IP cameras



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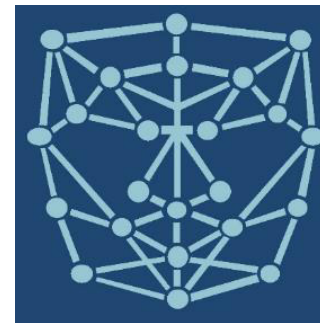
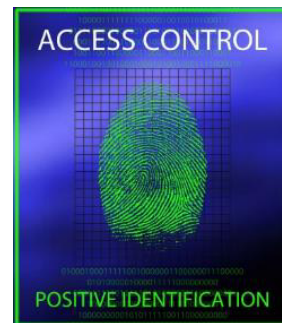
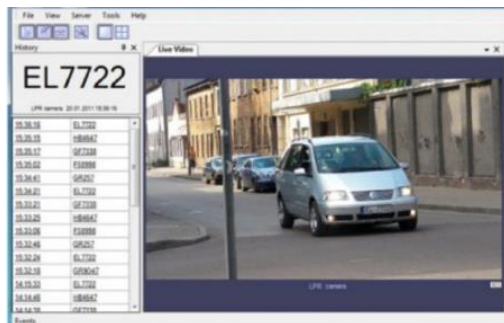
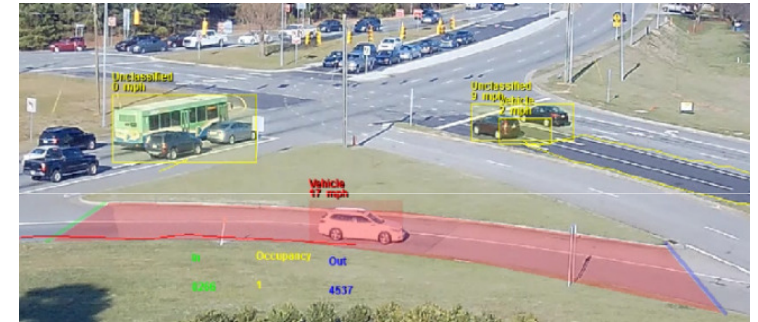
Ganz CONTROL Global Hardware



CORTROL - Improved Advanced API

Easily Integrate 3rd Party Applications Into Ganz CORTROL Global:

- *Point Of Sale*
- *Video Analytics*
- *License Plate Recognition*
- *Access Control*
- *Facial Recognition*
- *Home Automation*

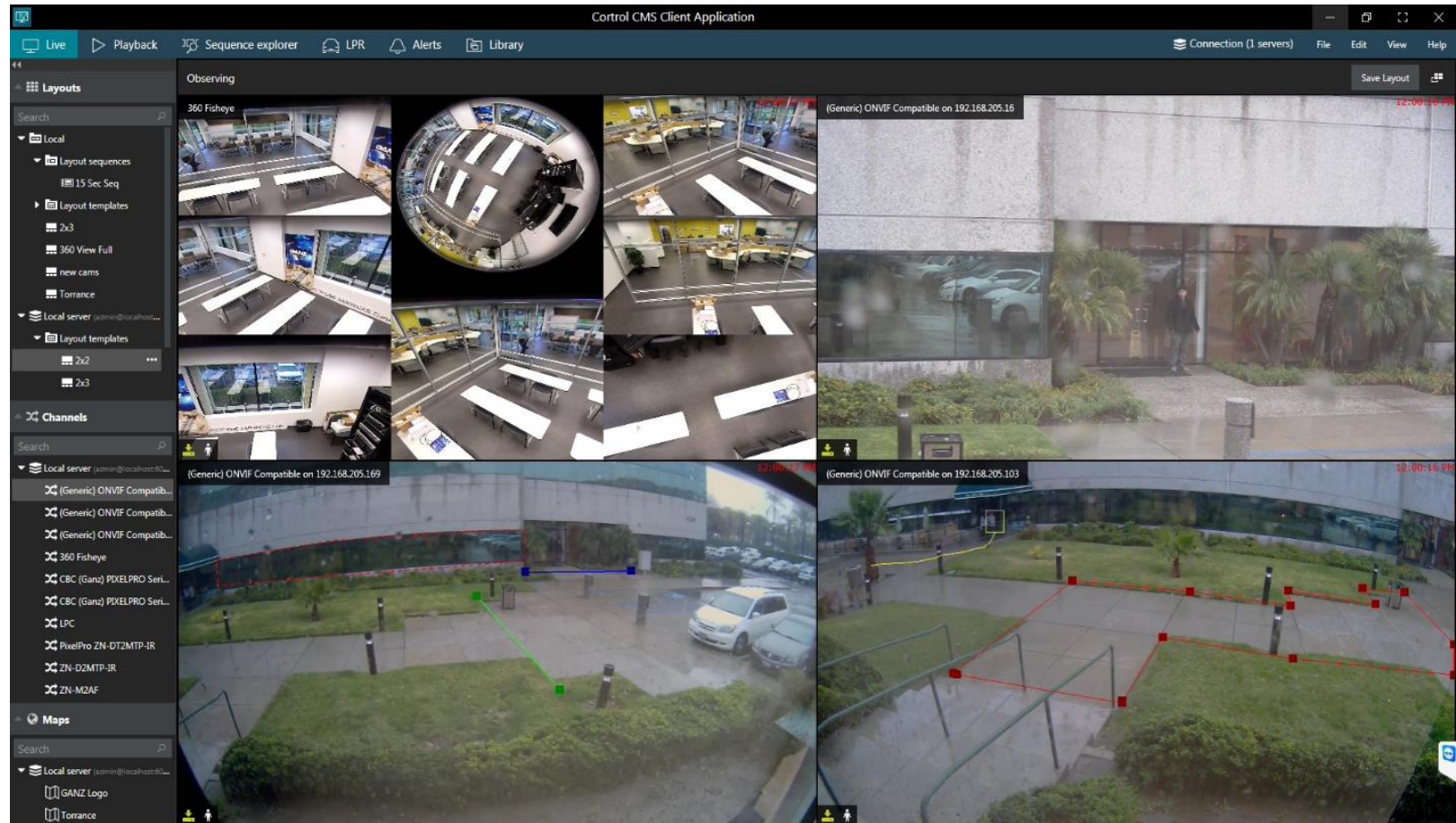


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CORTROL Client Interface / *Live*

Key points;

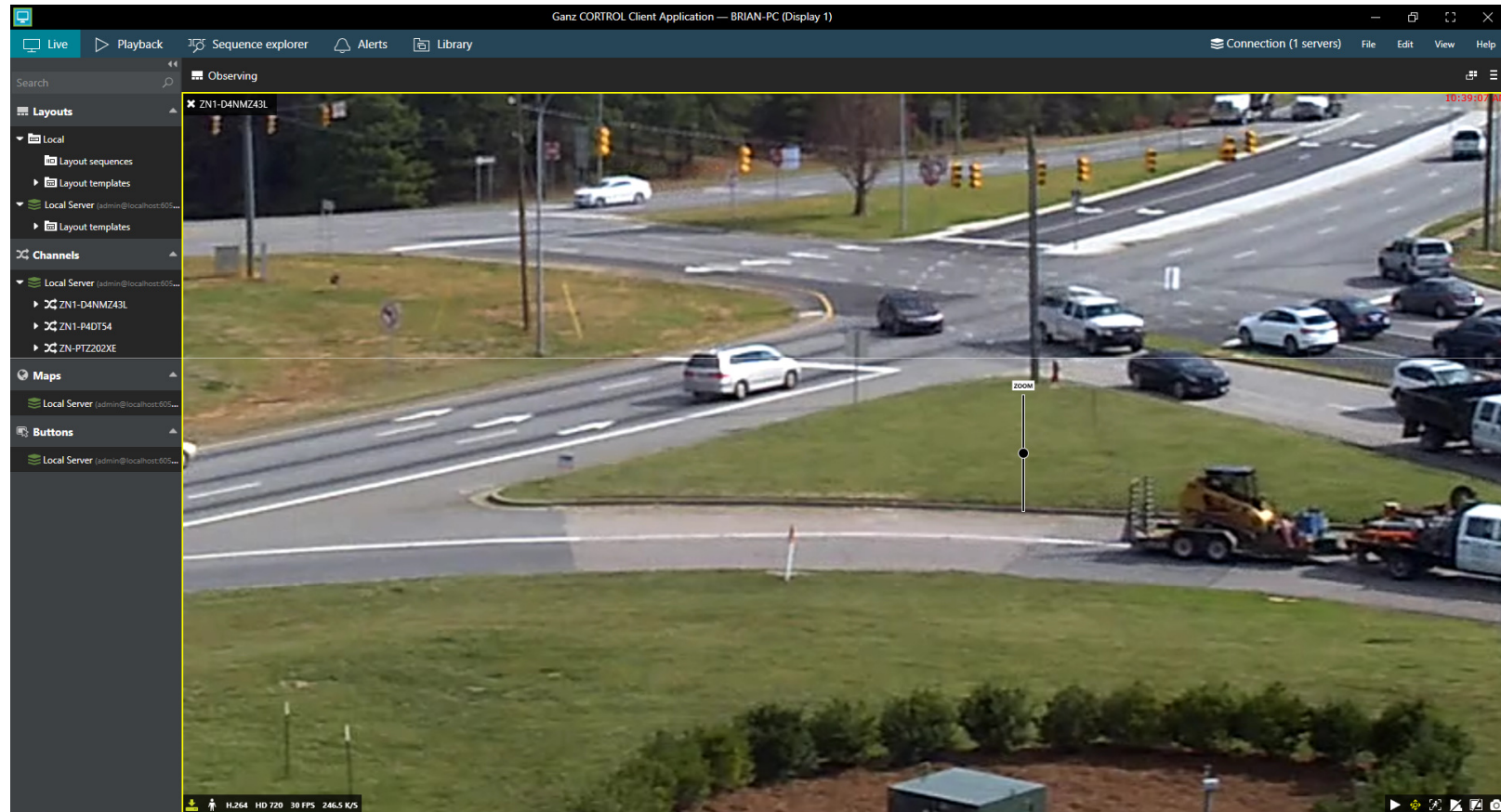
- *Layouts: Pre & Custom*
- *Layout Sequences*
- *Channels*
 - *Individual listing*
 - *Visual Grouping*
- *Maps*
- *Instant Playback*
- *PTZ*
- *Digital P/T/Z*
- *Multichannel Playback*
- *Sequence Explorer*
- *Exclusivity*
- *Application Lock*



CORTROL Client Interface / Digital PTZ

Key points;

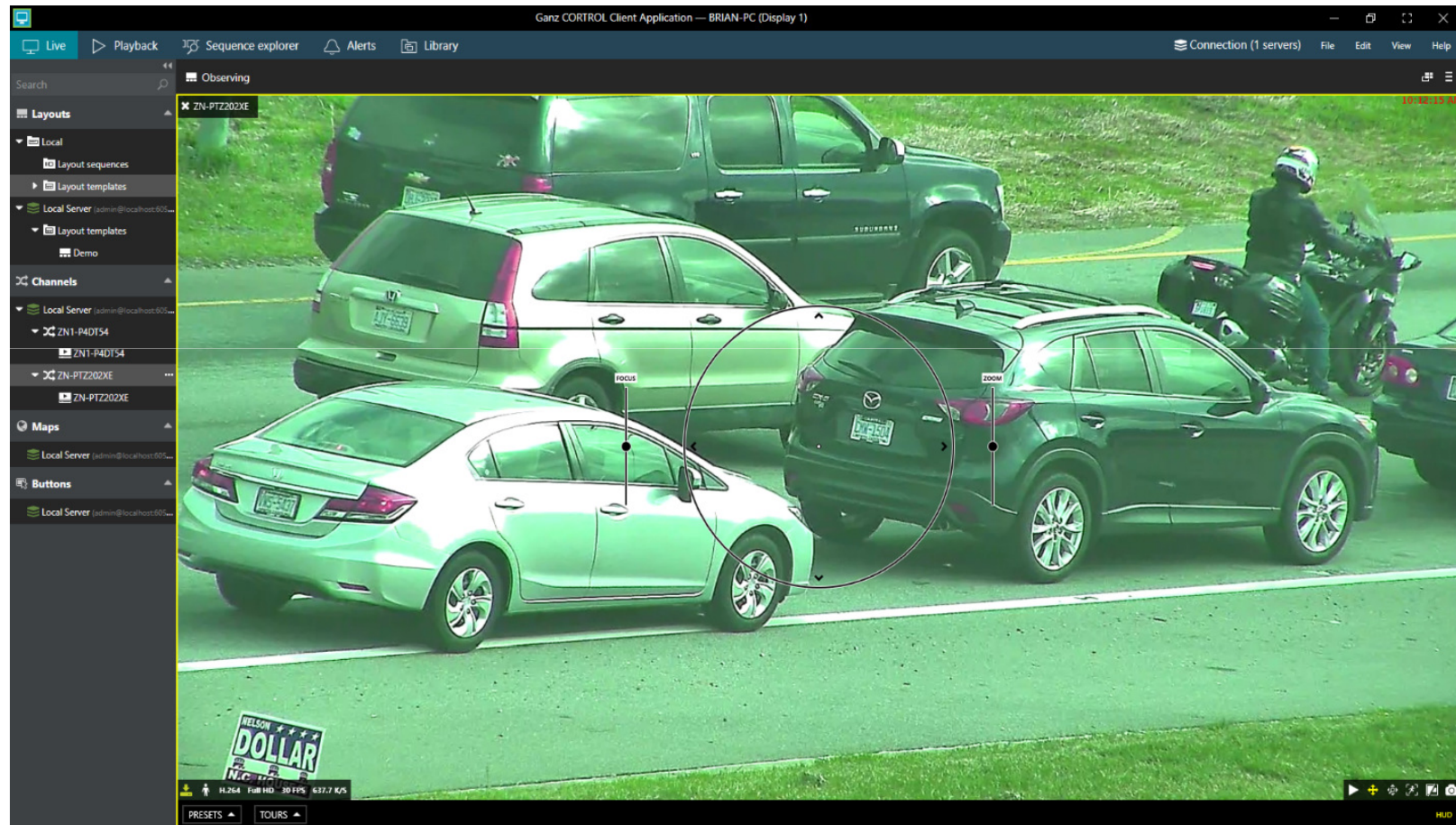
- *Digital P/T/Z*
- *Drag by mouse*
- *Zoom in/out*



CORTROL Client Interface / PTZ Control

Key points;

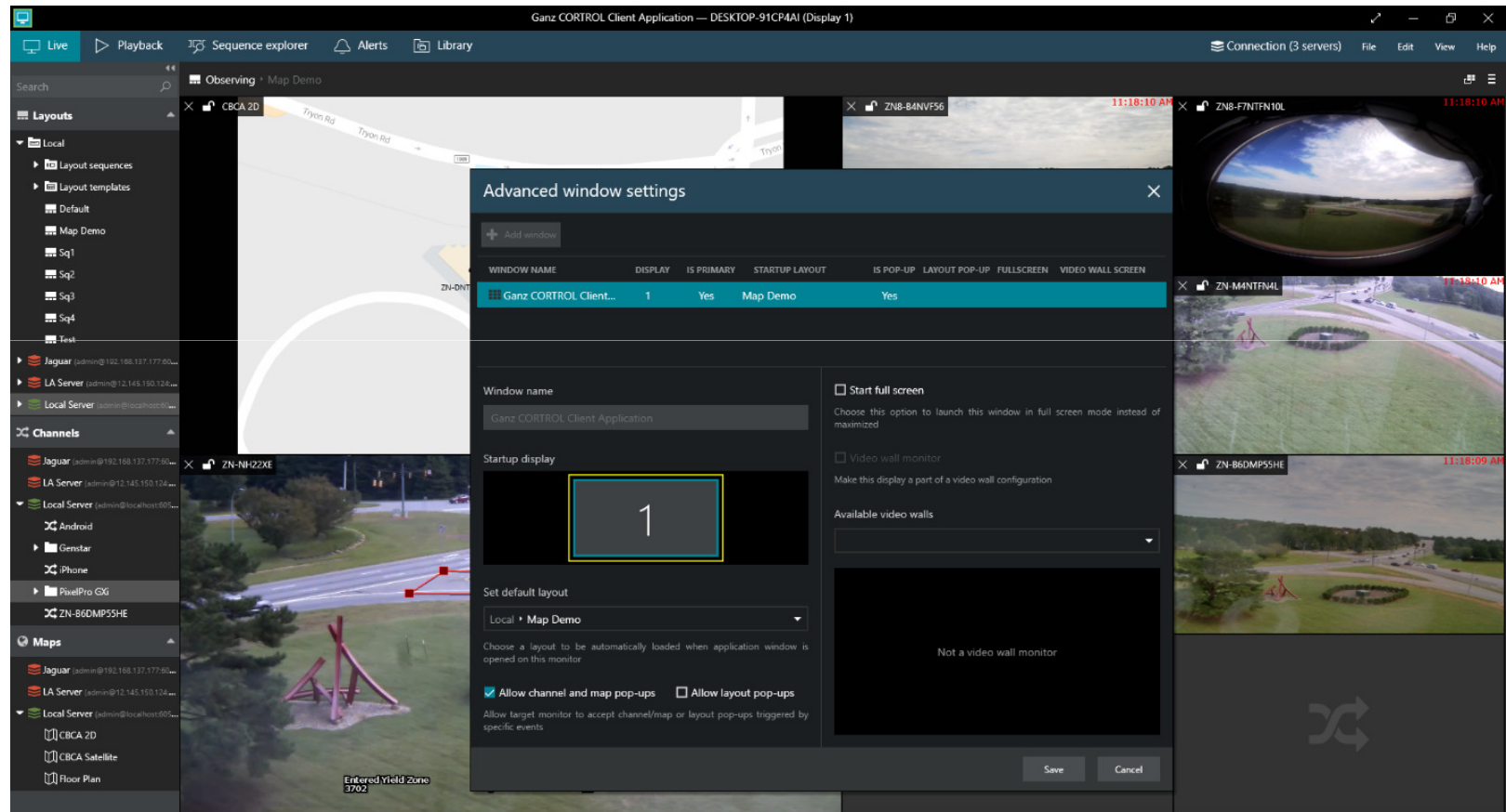
- *PTZ Control*
- *Navigation circle*
- *Navigate by mouse*
- *Zoom in/out optical*
- *Zoom in/out Digital*
- *Supported by camera*



CORTROL Client Interface / *Layouts*

Key points;

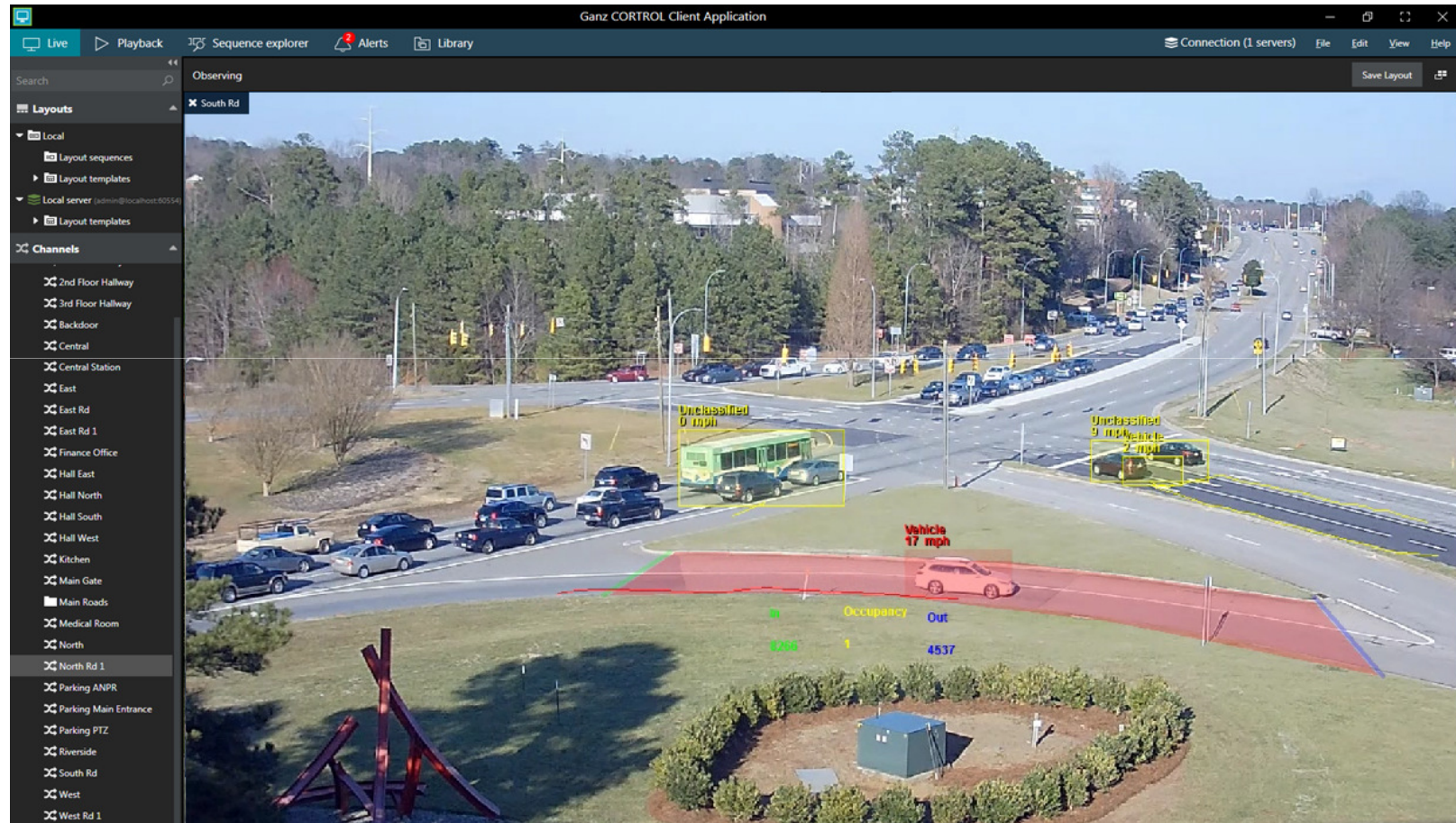
- *Layouts:*
 - 67 Pre-configured
 - Unlimited Custom
- *Layout Sequences*
 - Based on selected Layouts
- *Custom default layout*



CORTROL Client Interface / *Analytics*

Key points;

- *Enable metadata display*
- *Disable metadata display*



Simulation of Analytics

CORTROL Client Interface / *Maps*

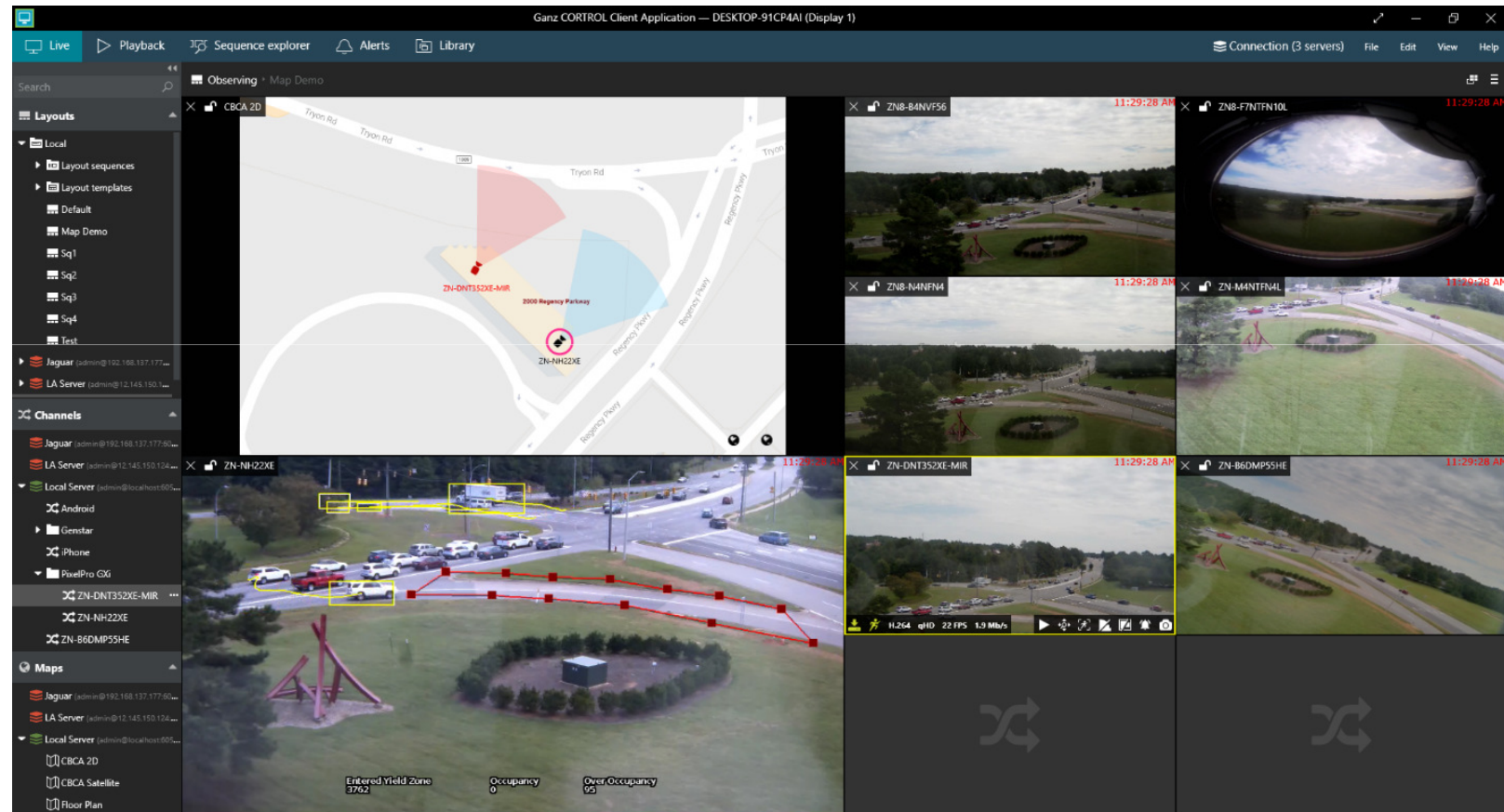
Key points;

Clicking on map/cam

- V. Channel highlights
- Auto fill 1st available Ch.

Event Configurator

- Pop-up on mapped event
- Auto fill 1st available Ch.
- Auto Highlight Cam



CORTROL Client Interface / *Regent of Interest*

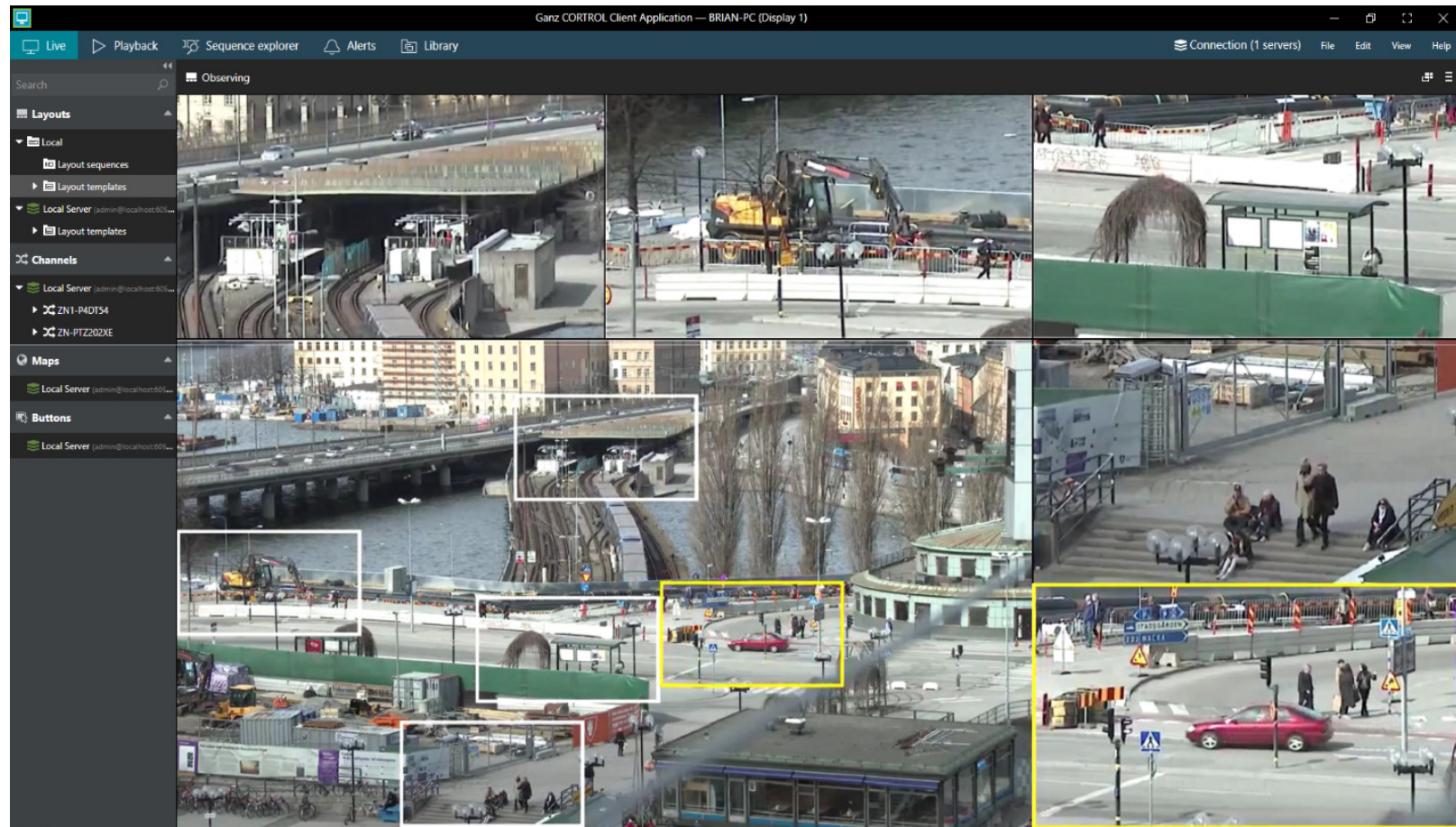
Key points;

Select regent of interest
Full Res 4K

- Creates 1080p res Ch.

Full Res 1080p

- Creates D1 res Ch.

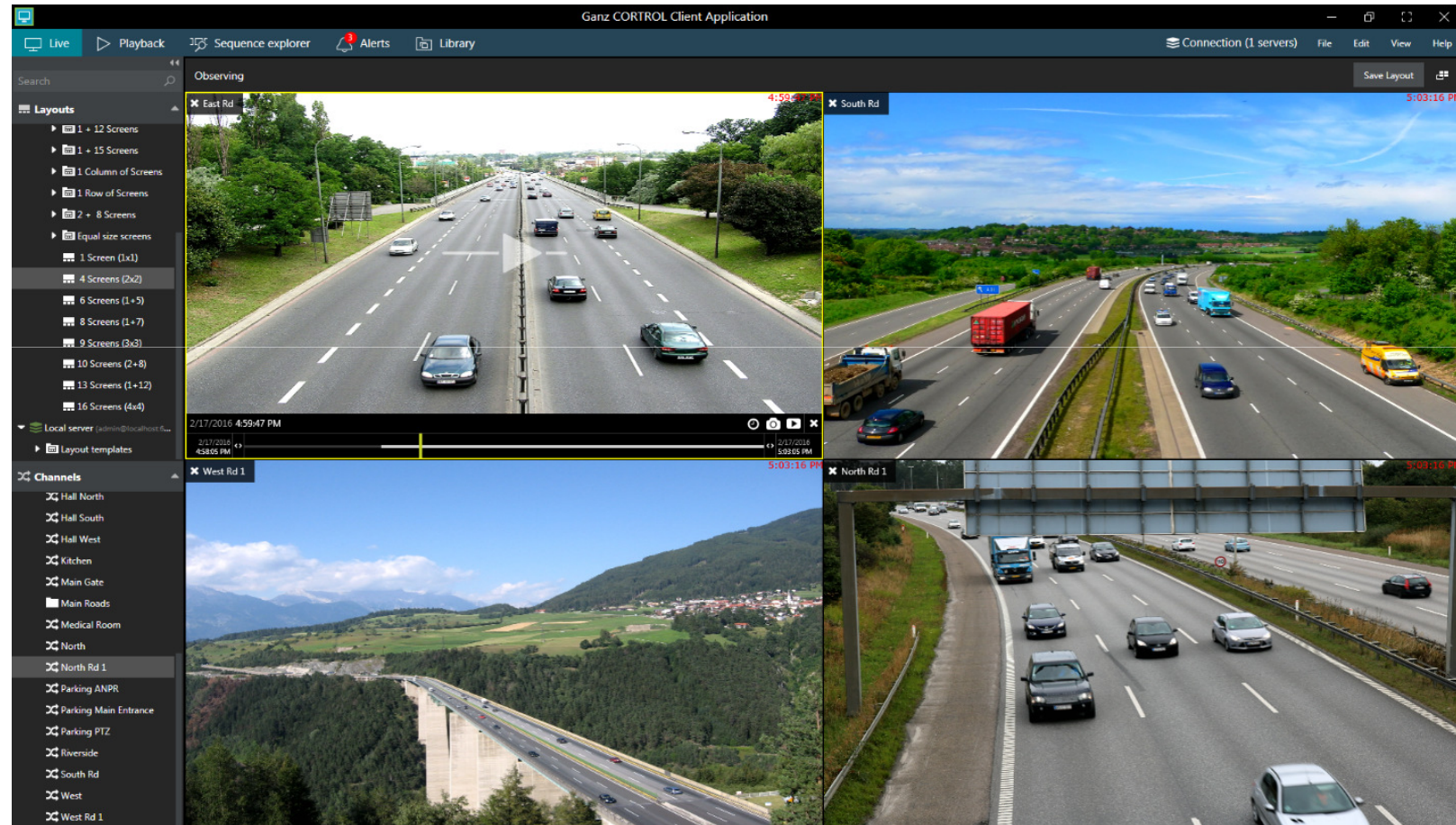


Simulation of Regent of Interest

CORTROL Client Interface / *Live w/Playback*

Key points;

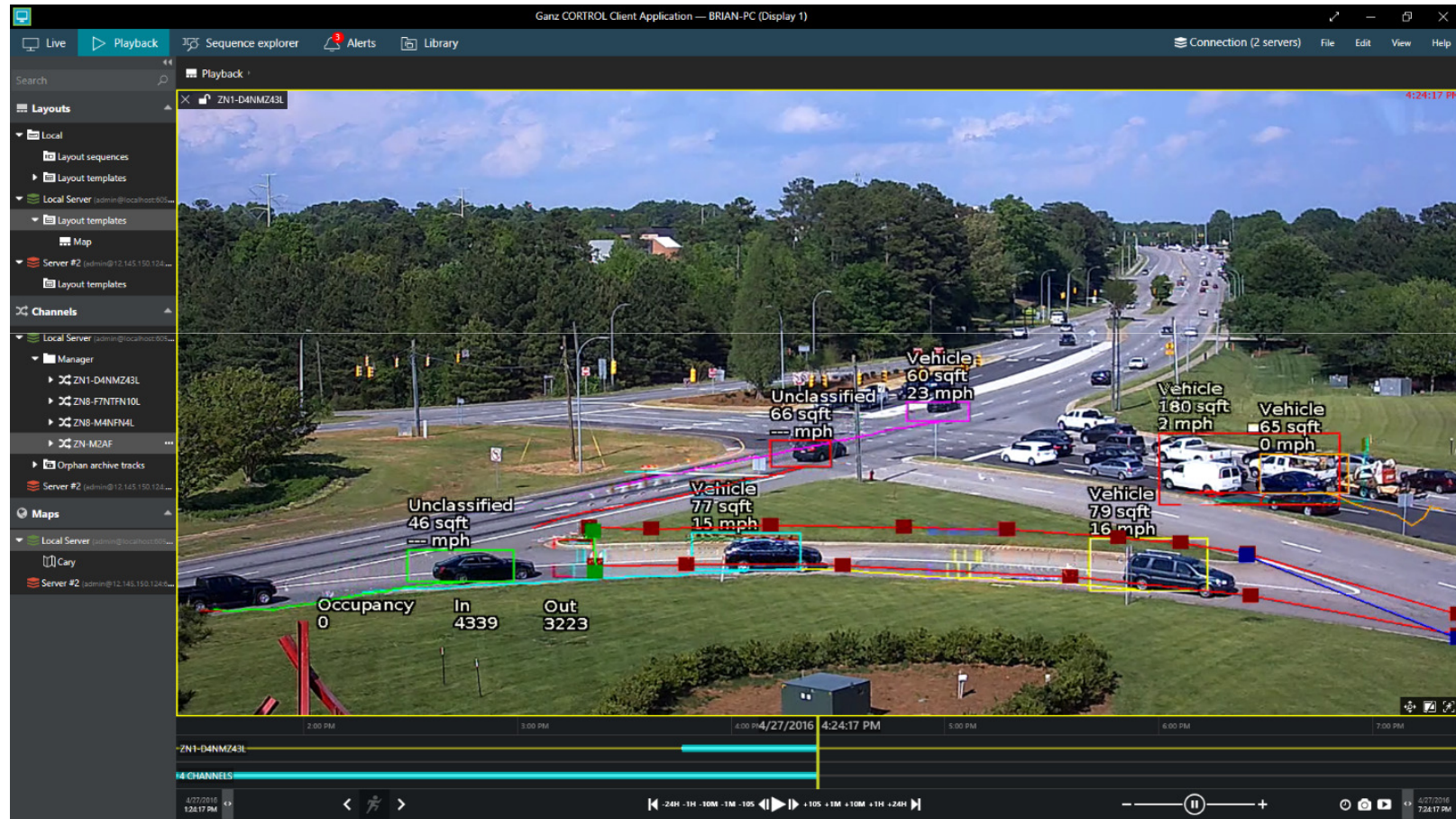
- *Auto play last 5 minutes*
- *Scrub through video*
- *Selectable Date/Time*
- *Snapshot*
- *Auto Archive 5 minute clip*



CORTROL Client Interface / *Playback*

Key points;

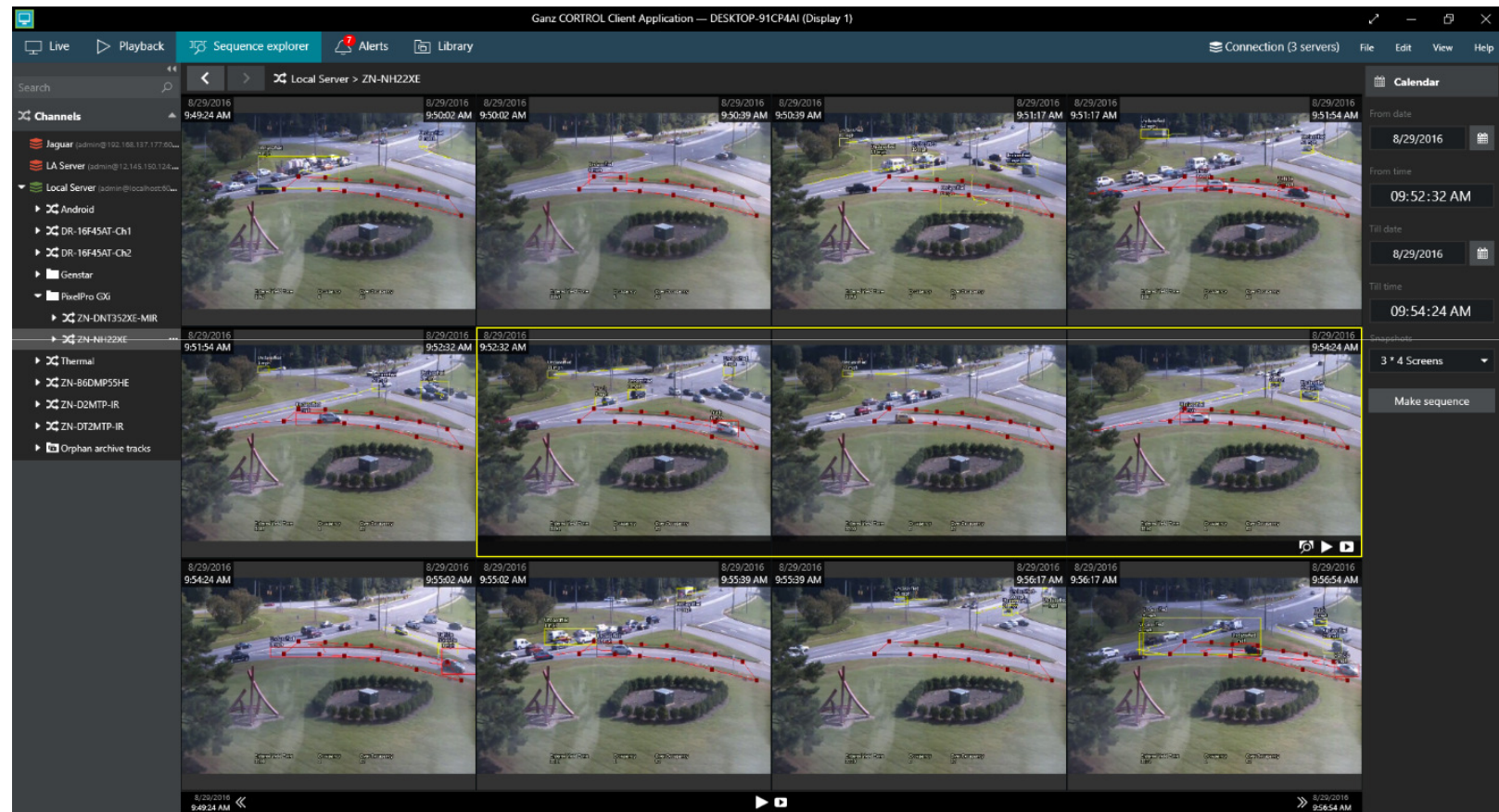
- *Multi-Channel Playback*
- *Multi-Channel Archive*
- *Search by motion*
- *Standard navigation*
- *32x FForward/Rewind*
- *Selectable Date/Time*
- *Date/Time In/Out Archive*
- *Digital P/T/Z*
- *Snapshot*



CORTROL Client Interface / *Sequence Explorer*

Key points;

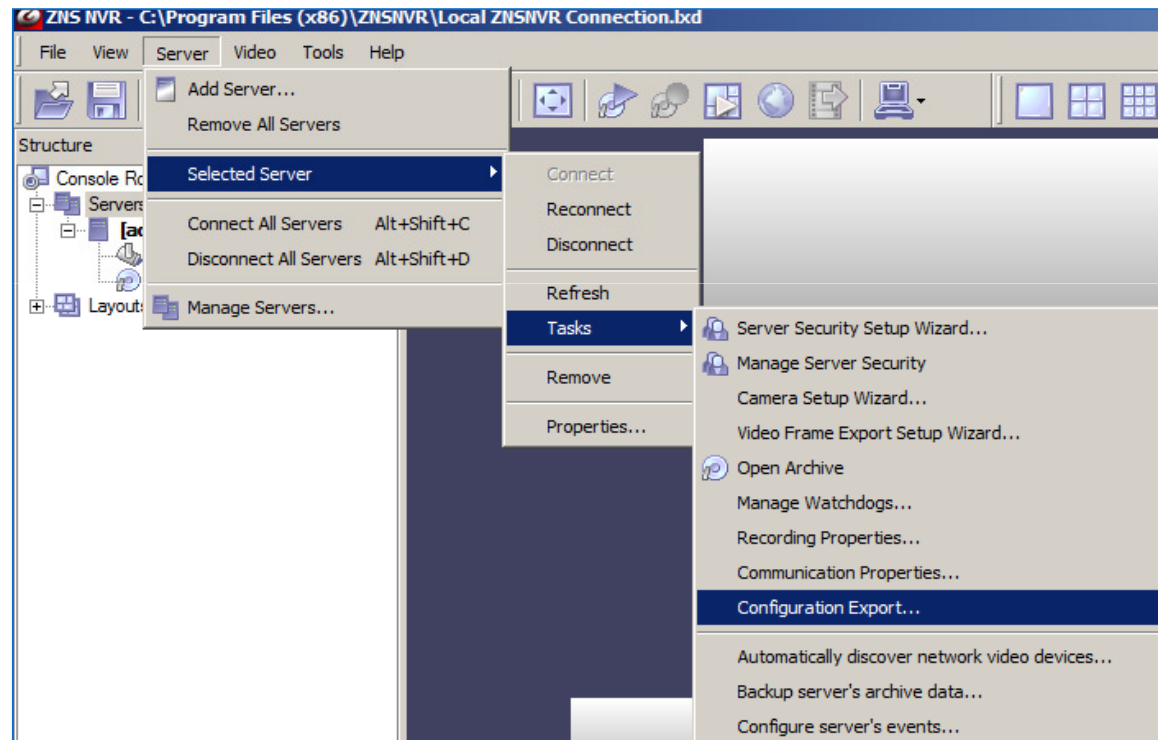
- *Selectable Date/Time*
- *Selectable Channel*
- *Split video down to 2min*
- *Single Ch. Playback*
- *Single Ch. Archive*
- *Multi Ch. Playback*
- *Multi Ch. Archive*
- *History zoom out/in*
- *Snapshot*



CORTROL ZNS Migration Tool

ZNS Client 2.5.7: Configuration Export

- Devices
- Device Groups
- Channels
- Channel Groups
- Users
- User Groups



CORTROL ZNS Migration Tool

Easily import an existing ZNS Database

- Devices
- Device Groups (*Global*)
- Channels
- Channel Groups (*Global*)
- Users
- User Groups
- Recorded Video

The screenshot displays the 'Configuration import' window of the CORTROL ZNS Migration Tool. The window is divided into several sections:

- Resources:** A sidebar on the left containing a tree view with 'Devices', 'Channels', 'Users', and 'User groups'. The 'Devices' section is expanded, showing a list of devices with checkboxes for selection.
- Configuration import:** The main area, which is further divided into 'Resources' and 'Channels'.
- Resources:** A sidebar within the main area, similar to the left sidebar, with 'Devices' selected.
- Channels:** A table listing channels with columns for 'TITLE', 'MODEL', and 'ACTION'. The table contains several entries, with one row highlighted in green.
- Details:** A panel on the right side of the 'Channels' section, containing input fields for 'Title', 'IP address', 'Port number', 'Vendor', 'Model name', 'User name', and 'Password'. The 'Title' field is populated with 'Pixelpro 5MP on 192.168.3.51'.
- Import via:** A section at the bottom of the 'Channels' table with radio buttons for 'Add' (selected) and 'Merge'.

At the bottom right of the window, there are 'OK' and 'Cancel' buttons.



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Management Console / Channels

Key points;

- Represent video streams
- Recording configuration
 - Main Stream
 - Sub Stream
 - Continuous
 - Motion
 - None
- Cam/Server side motion
- Membership (Grouping)
- Permissions (Rights)
- Channel Properties

Ganz CONTROL Management Console 2015 - localhost

Configuration > Channels

Built-in Administrator account

Search

Configuration

Create channel group Edit Assign group Assign recording configuration Create replication 1 selected

| TITLE | ID | DEVICE | ORGANISATION | SERVER | IP | PORT |
|-------------------|-------|-------------------------|-----------------|-----------------------------|-------------|------|
| 1st Floor Hallway | (138) | 1st Floor Hallway (122) | Torchwood (156) | Control Global Server (101) | 192.168.6.1 | 80 |

Channel Gate*

Channel

Details

Title

Gate

Channel title

Organisation

none

Change...

Organisation to which the channel belongs

Recording configuration

Continuous recording (32)

Change...

Recording configuration

Storage

Default

Change...

Storage

Substream recording configuration

Recording by motion (33)

Change...

Substream recording configuration

Substream storage

Default

Change...

Substream storage

OK Cancel

Configuration

Events & Actions

Monitoring

Recently added, 22 Recently updated, 0 Groups, 0 Channels, 22 Replication channels, 0 Detached, 0

Management Console / *Channels Replication*

Key points;

- *Ch. Replicate Local HDD*
 - *Main Stream*
 - *Sub Stream*
 - *Continuous*
 - *Motion*
 - *None*
 - *Absence of motion*
- *Ch. Replicate Remote HDD*
 - *Main Stream*
 - *Sub Stream*
 - *Continuous*
 - *Motion*
 - *None*
 - *Absence of motion*

The screenshot displays the Ganz CONTROL Management Console interface. The left sidebar shows the navigation menu with 'Channels' selected. The main area shows a table of channels with columns: TITLE, DEVICE, ORGANISATION, SERVER, IP, PORT, and ENABLED. A 'Create replication' button is highlighted in the top toolbar. A modal window titled 'Channel 192.168.1.118 [Replication]*' is open, showing the 'Details' tab. The details include fields for Title, Organisation (Mebane Warehouse), Main stream recording configuration (Recording by motion), Main stream storage (Default), Substream recording configuration (No recording), Substream storage (Default), and Video lost time (15 seconds).

| TITLE | DEVICE | ORGANISATION | SERVER | IP | PORT | ENABLED |
|---|---|--------------|---------------|---------------|------|---------|
| (Generic) ONVIF Compatible on 192.168.1.215 | (Generic) ONVIF Compatible on 192.168.1.215 | | Global Server | 192.168.1.215 | 80 | enabled |
| 16FX Ch1 | 16FX CH1 | | Global Server | 192.168.1.162 | 8080 | enabled |
| 16FX Ch1 [Replication] | 16FX Ch1 [Replication] | | | | | enabled |
| 16FX Ch2 | 16FX Ch2 | | Global Server | 192.168.1.162 | 80 | enabled |
| 16FX Ch3 | 16FX Ch3 | | Global Server | 192.168.1.162 | 80 | enabled |
| 192.168.1.118 | 192.168.1.118 | | Global Server | 192.168.1.118 | 80 | enabled |
| 192.168.1.118 [Replication] | 192.168.1.118 [Replication] | | | | | enabled |

Channel 192.168.1.118 [Replication]*

Details

Title: 192.168.1.118 [Replication]
Channel title

Organisation: Mebane Warehouse
Organisation to which the channel belongs

Main stream recording configuration: Recording by motion
Recording configuration

Main stream storage: Default
Storage

Substream recording configuration: No recording
Substream recording configuration

Substream storage: Default
Substream storage

Video lost time: 15
Time interval in seconds

Buttons: Apply, OK, Cancel

Management Console / Video Wall

Key points;

- Create windows for available displays
- Manage their properties
- Assign default layouts to windows
- Bind windows to video wall displays
- Set up video output in virtually any physical display combination

The screenshot displays the 'Video wall Showroom' Management Console. The main window is titled 'Video wall' and has a sidebar with 'Details', 'Membership', and 'Permissions'. The 'Details' panel shows fields for 'Title' (Showroom), 'Layout template name', 'Organisation' (Torchwood (156)), and 'Grid size' (9 x 8 = 72). Below these is a grid of 16 numbered cells (1-16) representing the video wall layout. An 'Advanced settings' dialog is open, showing a table of window configurations.

| WINDOW NAME | DISPLAY | IS PRIMARY | STARTUP LAYOUT | IS POP-UP | FULLSCREEN | VIDEO WALL SCREEN |
|-------------|---------|------------|----------------|-----------|------------|-------------------|
| Monitor | 1 | Yes | | | | |
| Main screen | 2 | Yes | | | | 17 |

The 'Advanced settings' dialog also includes sections for 'Window name' (Main screen), 'Startup display' (with a visual representation of the grid showing cells 1 and 2 highlighted), 'Set default layout' (Default), 'Start full screen' (unchecked), 'Video wall monitor' (checked), and 'Allow pop-ups' (checked). A 'Save' button is at the bottom right.

Management Console / *Layout Templates*

Key points;

- *Custom Layouts*
- *Unlimited*
- *Up to 10x10 grid*
- *Merge adjoining areas*
- *Unmerge merged areas*
- *Merge horizontally*
- *Merge vertically*

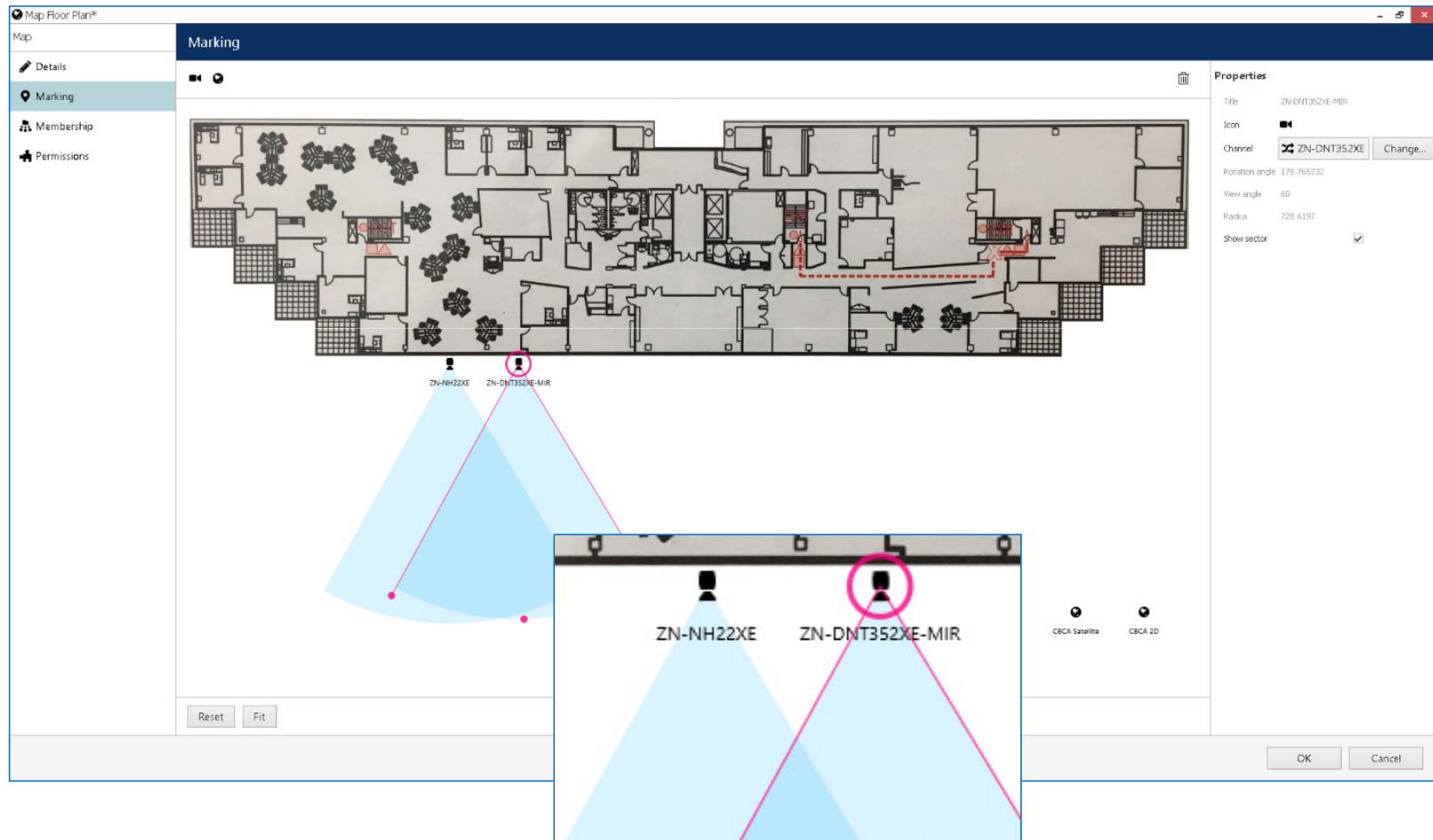
The screenshot displays the 'Ganz CONTROL Management Console 2015 - localhost' interface. The top navigation bar shows 'Configuration > Layout templates' and a search bar. The left sidebar lists various configuration categories, with 'Layout templates' selected. The main content area is divided into three tabs: 'TITLE', 'ID MATRIX', and 'VIEWPORTS'. The 'ID MATRIX' tab is active, showing a 10x10 grid. A 'Layout template *' window is open, displaying the 'Details' tab. This tab includes fields for 'Title', 'Layout template name', and 'Grid size' (set to 10 x 10 = 100). Below these fields is a 10x10 grid with numbers 1 through 66, where a 4x4 area (cells 14, 15, 16, 17, 24, 25, 26, 27, 30, 31, 32, 33) is highlighted in green. At the bottom of the grid, there are 'Merge' and 'Unmerge' buttons. The status bar at the bottom right indicates '1 of 66 viewport(s) selected'.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | | | | | 15 | 16 | 17 |
| 18 | 19 | 20 | | | | | 21 | 22 | 23 |
| 24 | 25 | 26 | | | | | 27 | 28 | 29 |
| 30 | 31 | 32 | | | | | 33 | 34 | 35 |
| 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| 46 | | | | | 48 | | | | 50 |
| 51 | | | 47 | | 52 | | 49 | | 53 |
| 54 | | | | | 55 | | | | 56 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 |

Management Console / Maps

Key points;

- Camera link
- Map link (Multilayered)
- Virtual Cam placement
 - Location
 - Rotation Angle
 - View Angle
 - Radius



Management Console / *Users*

Key points;

- *Create Users/Groups*
- *Groups*
 - *Assign members*
 - *Assign resources*
- *Users*
 - *Assign membership*
 - *Assign resources*

The screenshot shows the 'Configuration > Users' page in the Ganz CONTROL Management Console. The left sidebar contains navigation options: Organisations, Networks, Servers, Failover clusters, Users (selected), Devices, Channels, Recording, Maps, Layout templates, Layouts, Video walls, User buttons, and Visual groups. The main area shows a list of users with columns for TITLE, LOGIN NAME, ORGANISATION, ENAB..., and EMAIL. A modal window titled 'User group Advanced Users' is open, showing the 'Members' tab. This modal has two tables: 'Selected members' and 'Available members'. The 'Selected members' table lists users like Tom Paris, Samantha Wildman, Harry Kim, etc. The 'Available members' table lists users like Amanda Grayson, Janice Rand, Reginald Barclay, etc. There are 'Remove' and 'Add' buttons at the bottom of the modal, and 'OK' and 'Cancel' buttons at the bottom right.

| TITLE | LOGIN NAME | ORGANISATION | ENAB... | EMAIL |
|--------------------------------|-------------|-----------------|---------|------------------------|
| Adam Smith | a.smith | Torchwood (156) | yes | a.smith@somedomain.com |
| Alyssa Ogawa | a.ogawa | | | |
| Amanda Grayson | a.grayson | | | |
| Andy Davidson | a.davidson | | | |
| Brian Green | b.green | | | |
| Built-in Administrator account | admin | | | |
| Ellis H. Monroe | e.h.monroe | | | |
| Harry Kim | h.kim | | | |
| Henry Parker | h.parker | | | |
| Jack Harkness | j.harkness | | | |
| Janice Rand | j.rand | | | |
| Katherine Pulaski | k.pulaski | | | |
| Malcolm Reed | m.reed | | | |
| Martha Jones | m.jones | | | |
| Mary Cooper | m.cooper | | | |
| Michael Eddington | m.eddington | | | |
| Olivia Colasanto | o.colasanto | | | |
| Reginald Barclay | r.barcley | | | |
| Robin Lefler | r.lefler | | | |
| Samantha Wildman | s.wildman | | | |
| Sarah Drummond | s.drummond | | | |
| Sonya Gomez | s.gomez | | | |
| Tom Paris | t.paris | | | |
| William Ross | w.ross | | | |
| Winn Adami | w.adami | | | |

| Selected members | | Available members | |
|------------------|------|-------------------------------|------------|
| TITLE | TYPE | TITLE | TYPE |
| Tom Paris | User | Built-in Administrators group | User group |
| Samantha Wildman | User | Amanda Grayson | User |
| Harry Kim | User | Janice Rand | User |
| Malcolm Reed | User | Reginald Barclay | User |
| Adam Smith | User | Alyssa Ogawa | User |
| Martha Jones | User | Katherine Pulaski | User |
| Henry Parker | User | Robin Lefler | User |
| Mary Cooper | User | Sonya Gomez | User |
| Brian Green | User | William Ross | User |
| Ellis H. Monroe | User | Winn Adami | User |
| Olivia Colasanto | User | Michael Eddington | User |
| | | HQ | User group |
| | | Jack Harkness | User |
| | | Andy Davidson | User |
| | | Sarah Drummond | User |

Recently added, 26 Recently updated, 1 Groups, 3 Users, 25

Management Console / *Events Configurator*

Key points;

Create Rules based on

- Events that happen

- Video lost
- Video restored
- Motion lost
- Digital i/o
- VCA

- Actions that take place

- Send mail
- Generate alarm
- Pop-up
- Activate recording
- Highlight on map

- Add a condition
- Add a schedule
- Add a delay

The screenshot shows the 'Events and actions configurator' window. It has a dark blue header with the title 'Events and actions configurator'. Below the header, there's a 'Server' dropdown menu set to 'Control Global Server (101)'. The main area is divided into three panels: 'Events', 'Rules', and 'Actions'. Each panel has a search bar and a list of items. The 'Events' panel lists various events like 'West', 'ALARM', 'SECURITY BREACH', and 'Control Global Server'. The 'Rules' panel lists rules like '1st Floor Hallway >> Video lost', '1st Floor Lobby >> Video lost', '2nd Floor Hallway >> Video lost', '3rd Floor Hallway >> Video lost', 'Backdoor >> Video lost', 'Parking ANPR >> Car detected', and 'Gate Opened >> Set condition'. The 'Actions' panel lists actions like 'Parking Main Entrance', 'Parking PTZ', 'Riverside', 'West', 'Daytime', 'Gate Opened', 'ALARM', 'SECURITY BREACH', 'Gmail', and 'Control Global Server'. At the bottom of the 'Rules' panel, there are buttons for 'Condition', 'Schedule', 'Delay timer', and 'Clear'. At the bottom of the 'Actions' panel, there are buttons for 'Action' and 'Edit action'. At the very bottom of the window, there are 'OK' and 'Cancel' buttons.

Management Console / Failover

Key points;

- *Setting Failover role*
- *IP Address of failover server*
- *Failover timeout*
- *Connection timeout*
- *Member of Failover cluster*
- *Membership (Group)*
- *Permissions (Users)*
- *Watchdog (Monitoring)*

The screenshot displays the 'Ganz CONTROL Management Console - localhost' interface. The left sidebar shows the 'Configuration' menu with options like Organisations, Networks, Servers, External services, Failover clusters, Users, Devices, Channels, Recording, Maps, Layout templates, Layouts, Video walls, User buttons, and Visual groups. The main area is titled 'Configuration > Servers' and shows a table of servers. A modal window titled 'Server Failover Server*' is open, showing the 'Failover' configuration for a server named 'Global Server'. The configuration includes a 'Failover cluster' dropdown set to 'Demo', a 'Failover timeout' of 600 seconds, and a 'Central server connection timeout' of 300 seconds. The bottom status bar indicates 'Recently added: 0', 'Recently updated: 0', 'Groups: 0', and 'Servers: 1'.

| TITLE | FAILOVER CLUSTER | NETWORK | LOCAL IP | LOCAL VMS PORT | INTERNET IP | INTERNET VMS PORT |
|---------------|------------------|---------|----------|----------------|---------------|-------------------|
| Global Server | none | | | | 192.168.1.171 | 60554 |

Server Failover Server*

Server

Failover

Failover cluster: Demo (Change...)

The server is a member of the specified failover cluster.

Failover timeout: 600
Time interval in seconds before the server will be considered as non operational and its tasks will be picked up by a failover server.

Central server connection timeout: 300
Time interval in seconds to wait for central server connection on the server startup. When the interval expires the server will be started up even when the central server is unavailable.

OK Cancel

Recently added: 0 Recently updated: 0 Groups: 0 Servers: 1

Management Console / Health Monitoring

Key points;

- **Server**
 - Status / Connection
 - Version / Failover Status
- **Device**
 - Status
 - Device/Model
- **Channels**
 - Status / Device
 - Video Lost Duration
 - Kbit/s / FPS
 - Recording
- **User Sessions**
 - Remote IP / Type
- **External services**
- *More statuses added with further releases.*



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Ganz CONTROL Management Console - localhost

Monitoring > Channels

admin Search

| Monitoring | TITLE | STATUS | SERVER | DEVICE | STATUS UPDATE TIME | VIDEO LOST DURATION | KBIT/S | FPS | RECORDING | RECORDING ERROR | INFORMATION |
|-------------------|-----------------|---------|--------|-----------------|----------------------|---------------------|--------|------|---------------|-----------------|-------------|
| Servers | Android | Normal | Server | Android | 8/29/2016 2:26:37 PM | 3:00:09:12.6170000 | 0 | 0.0 | Activated | | |
| Devices | DR-16F45AT-Ch1 | Unknown | Server | | | | | | | | |
| Channels | DR-16F45AT-Ch2 | Unknown | Server | | | | | | | | |
| User sessions | iPhone | Normal | Server | iPhone | 8/29/2016 2:26:37 PM | No video | 0 | 0.0 | Not activated | | |
| External services | Thermal | Unknown | Server | | | | | | | | |
| | ZN8-B4NVF56 | Normal | Server | ZN8-B4NVF56 | 8/29/2016 2:26:37 PM | | 1787 | 29.5 | Activated | | |
| | ZN8-F7NTFN10L | Normal | Server | ZN8-F7NTFN10L | 8/29/2016 2:26:37 PM | | 3860 | 15.0 | Activated | | |
| | ZN8-N4NFN4 | Normal | Server | ZN8-N4NFN4 | 8/29/2016 2:26:37 PM | | 1797 | 30.0 | Activated | | |
| | ZN-B6DMP55HE | Normal | Server | ZN-B6DMP55HE | 8/29/2016 2:26:37 PM | | 3638 | 15.0 | Activated | | |
| | ZN-D2MTP-IR | Unknown | Server | | | | | | | | |
| | ZN-DNT352XE-MIR | Normal | Server | ZN-DNT352XE-MIR | 8/29/2016 2:26:37 PM | | 2095 | 22.4 | Activated | | |
| | ZN-DT2MTP-IR | Unknown | Server | | | | | | | | |
| | ZN-M4NTFN4L | Normal | Server | ZN-M4NTFN4L | 8/29/2016 2:26:37 PM | | 1644 | 26.4 | Activated | | |
| | ZN-NH22XE | Normal | Server | ZN-NH22XE | 8/29/2016 2:26:37 PM | | 1047 | 16.8 | Activated | | |

Configuration
Events & Actions
Monitoring
Audit

Recently added, 0 Recently updated, 0 Groups, 0 Channels, 14 Replication channels, 0 Detached, 0

Management Console / Audit

Key points;

- **Server**
 - Time / Server / Event / Info
- **User Sessions**
 - Time / User ID / IP / Connection
 - Event / Server / Channel
- **More statuses added with further releases.**

Ganz CORTROL Management Console - localhost

Audit > Users

admin Search

Audit

Define filter View 1 selected

| | TIME | USER LOGIN NAME | CONNECTION ADDRESS | CONNECTION TYPE | EVENT | SERVER | INFORMATION |
|-------|-----------------------|-----------------|--------------------|-----------------|--------------|------------------------|-------------|
| Users | 8/29/2016 2:26:25 PM | admin | 127.0.0.1:55366 | Console | Log in | Server | |
| | 8/29/2016 1:53:03 PM | admin | 127.0.0.1:65103 | Console | Log out | Server | |
| | 8/29/2016 1:35:19 PM | admin | 127.0.0.1:65103 | Console | Log in | Server | |
| | 8/29/2016 1:30:23 PM | admin | 127.0.0.1:64433 | Console | Log out | Server | |
| | 8/29/2016 1:29:36 PM | admin | 127.0.0.1:64433 | Console | Log in | Server | |
| | 8/29/2016 12:05:16 PM | admin | 127.0.0.1:51315 | Console | Log out | Server | |
| | 8/29/2016 12:00:56 PM | admin | 127.0.0.1:51315 | Console | Log in | Server | |
| | 8/29/2016 12:00:46 PM | admin | 127.0.0.1:59535 | Monitor | Log out | Server | |
| | 8/29/2016 11:45:04 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN-NH22XE | |
| | 8/29/2016 11:27:21 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN-DNT352XE-MIR | |
| | 8/29/2016 11:11:57 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN-B6DMP55HE | |
| | 8/29/2016 11:11:57 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN-DNT352XE-MIR | |
| | 8/29/2016 11:11:57 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN-NH22XE | |
| | 8/29/2016 11:11:57 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN-M4NTFN4L | |
| | 8/29/2016 11:11:57 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN8-N4NFN4 | |
| | 8/29/2016 11:11:57 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN8-F7NTFN10L | |
| | 8/29/2016 11:11:57 AM | admin | 127.0.0.1:59535 | | Receive Data | Server ZN8-B4NVF56 | |
| | 8/29/2016 11:11:56 AM | admin | 127.0.0.1:59535 | Monitor | Log in | Server | |
| | 8/29/2016 8:29:43 AM | admin | 127.0.0.1:52379 | Console | Log out | Server | |
| | 8/29/2016 8:29:32 AM | admin | 127.0.0.1:52063 | Monitor | Log out | Server | |
| | 8/29/2016 8:25:51 AM | admin | 127.0.0.1:52379 | Console | Log in | Server | |
| | 8/29/2016 8:25:07 AM | admin | 127.0.0.1:52063 | | Receive Data | Server ZN-B6DMP55HE | |
| | 8/29/2016 8:25:00 AM | admin | 127.0.0.1:52063 | | Receive Data | Server ZN-M4NTFN4L | |
| | 8/29/2016 8:24:57 AM | admin | 127.0.0.1:52063 | | Receive Data | Server ZN8-N4NFN4 | |
| | 8/29/2016 8:24:57 AM | admin | 127.0.0.1:52063 | | Receive Data | Server ZN8-F7NTFN10L | |
| | 8/29/2016 8:24:56 AM | admin | 127.0.0.1:52063 | | Receive Data | Server ZN8-B4NVF56 | |
| | 8/29/2016 8:24:47 AM | admin | 127.0.0.1:52063 | | Receive Data | Server ZN8-B4NVF56 | |

Configuration

Events & Actions

Monitoring

Audit

GANZ CORTROL Licensing

CORTROL Prime No-License

ZNS-Prime

16ch (8x8) Cortrol Prime ***Non-License***

CORTROL Premier Licenses

ZNS-Premier24

24ch Cortrol Premier

ZNS-Premier48

48ch Cortrol Premier

ZNS-Premier96

96ch Cortrol Premier

CORTROL Global Licenses

ZNS-GStart100

100ch Cortrol Global Start

ZNS-Global50

50ch Cortrol Global ***(Additional Channels)***

ZNS-Global100

100ch Cortrol Global ***(Additional Channels)***

ZNS-Global500

500ch Cortrol Global ***(Additional Channels)***

ZNS-Global1K

1000ch Cortrol Global ***(Additional Channels)***

ZNS-Global5K

5000ch Cortrol Global ***(Additional Channels)***



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| CONTROL Premier Contract - <i>Renewal</i> | |
|---|---------------------|
| ZNS-2AC24 | 2 year 24ch Premier |
| ZNS-2AC48 | 2 year 48ch Premier |
| ZNS-2AC96 | 2 year 96ch Premier |
| | |
| ZNS-8AC24 | 8 year 24ch Premier |
| ZNS-8AC48 | 8 year 48ch Premier |
| ZNS-8AC96 | 8 year 96ch Premier |

CORTROL Global Contract - *Renewal*

| | |
|-------------|---------------------------|
| ZNS-S2AC100 | 2 year 100ch Global Start |
| ZNS-S8AC100 | 8 year 100ch Global Start |
| | |
| ZNS-2AC50 | 2 year 50ch Global |
| ZNS-2AC100 | 2 year 100ch Global |
| ZNS-2AC500 | 2 year 500ch Global |
| ZNS-2AC1K | 2 year 1000ch Global |
| ZNS-2AC5K | 2 year 5000ch Global |
| | |
| ZNS-8AC50 | 8 year 50ch Global |
| ZNS-8AC100 | 8 year 100ch Global |
| ZNS-8AC500 | 8 year 500ch Global |
| ZNS-8AC1K | 8 year 1000ch Global |
| ZNS-8AC5K | 8 year 5000ch Global |

ZNS to CONTROL Upgrade Licenses

| | |
|--------------|----------------------------------|
| ZNS-U-P24 | ZNS w/ 1-24ch - > Premier 24 |
| ZNS-UE-P48 | ZNS w/ 1-48 ch - > Premier 48 |
| ZNS-UE-P96 | ZNS w/ 1-96ch - > Premier 96 |
| | |
| ZNS-U-G50 | ZNS - > Global 50ch pack |
| ZNS-UE-G100 | ZNS - > Global 100ch pack |
| | |
| ZNS-U24-P48 | Premier 24 - > Premier 48 |
| ZNS-U24-P96 | Premier 24 - > Premier 96 |
| ZNS-U48-P96 | Premier 48 - > Premier 96 |
| | |
| ZNS-U48-G50 | Premier 48 - > Global 50ch pack |
| ZNS-U96-G100 | Premier 96 - > Global 100ch pack |

Supported cameras list

VMS is a leading software in the number of hardware devices supported: **3000+ models** of network cameras and network video servers from over **100+ manufacturers** — a most comprehensive choice available in the market.

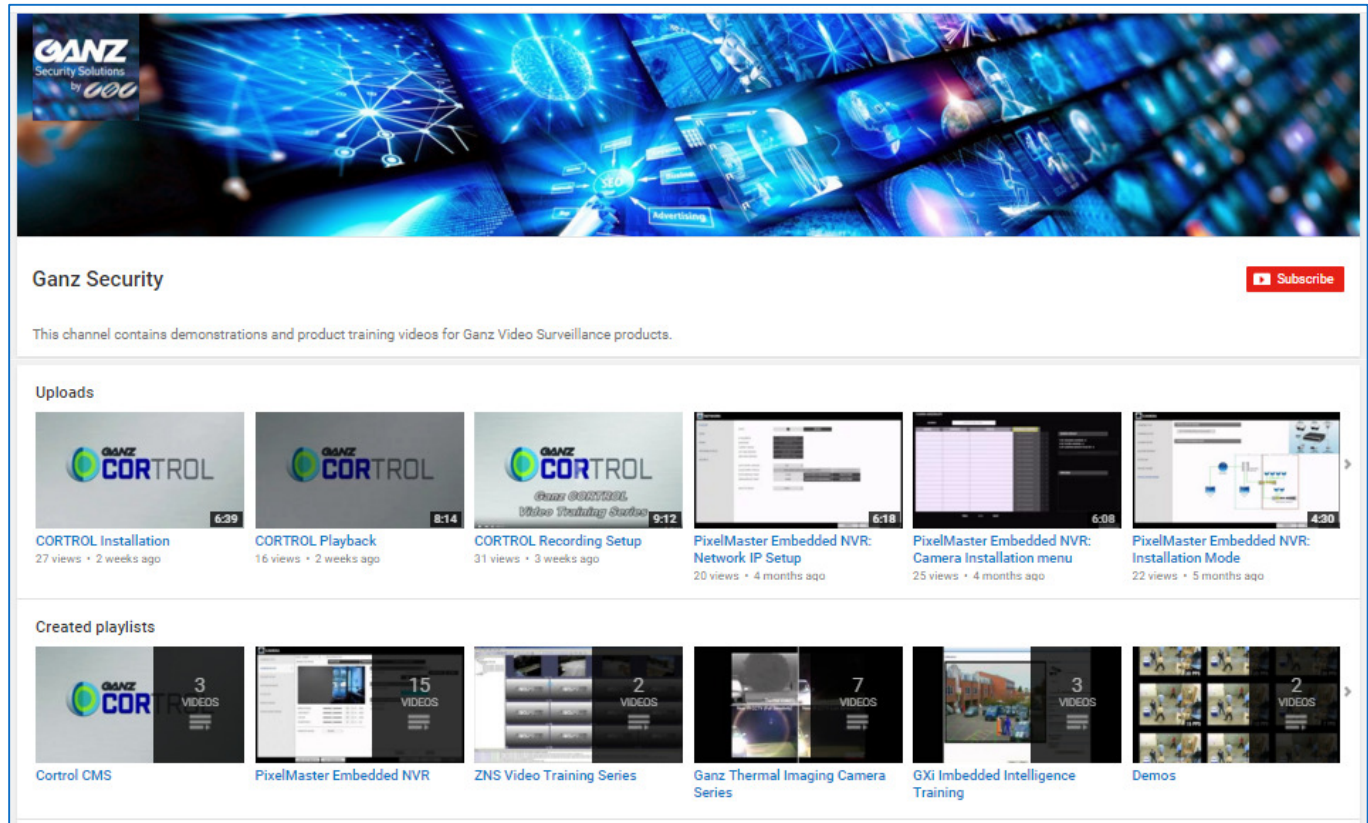
Manufacturers list

| | | | | | | |
|--------------------------------|---------------------------------|-----------------------------|----------------------------|------------------------------------|-------------------------------------|---|
| A+ Systems | Bulwark | Eneo | HUNT | Messo | Sanyo | UDP |
| A&H | BrickCom | Etrovision | iCanTek | Merit Li-Lin | Scallop Imaging | UTC Fire & Security |
| ACTi | CamTron | eEvidence | Infinity | Micro Digital | Secubest | Videonix-cctv |
| Acumen | Canon | EverFocus | Infinova | Micronet | Sharx | Vidux |
| AirLink101 | CBC | EveView | Intellinet | Milesight | Smart Guard Systems | Vitek |
| Appro | Convision | Fine CCTV | ILDVR | Mobotix | Smartec | Viotech |
| Arecont Vision | Cortex Connect | FlexWATCH | ION | Moxa - IP Video | Solvitec | Vivotek |
| Arlotto | Costar | Flir | IQinVision | Devices | Sony | Visualint |
| Asoni | ClareVision | Forenix | I-Yahornq | Moxa - I/O Devices | SparkLAN | Wipro |
| Auric | CNB | Ganz | JVC | Optelecom-NKF | Speco | Y-Cam |
| Aver | CP PLUS | GeoVision | Karel | Panasonic | StarDot | YOKO |
| Aviosys | Dahua | Grandeye | KT&C | Partizan | Sunell | Yudor |
| AVTECH | Digital ID VIEW | Grandstream | LevelOne | Pelco | Tanz | Zavio |
| Axis | Digimerge | Grundig | LG | Pixord | Tervis | 3S Vision |
| Basler | DigiView | GSP America | Linksys | Probe | Telefunken | 360 Vision |
| Beward | DRS | HikVision | Linovision | PROVIDEO | Toshiba | 4XEM |
| Bolide | D-Link | Hitachi | Linudix | Riva | TRENDnet | |
| Bosch | Dynacolor | Hitron | Lumenera | Rimax | Truen | |
| | | | | Samsung | | |

Ganz CORTROL: Video Training Series

Ganz Security: Cortrol CMS Playlist

- [CORTROL Installation](#)
 - Installation
 - Activation
 - Camera setup
- [CORTROL Playback](#)
 - Playback navigation
 - Clip Export
 - Clip Playback
- [CORTROL Recording Setup](#)
 - Recording Profile
 - Recording Schedule
 - Assigning Recording
- [CORTROL Sequence Explorer](#)
 - Setup of Sequence Explorer
 - Selection of channel data
 - Exploration of channel data



The screenshot displays the YouTube channel for 'Ganz Security'. The channel banner features a blue, high-tech background with network diagrams and the text 'Ganz Security Solutions by CBC'. Below the banner, the channel name 'Ganz Security' is shown with a 'Subscribe' button. A description states: 'This channel contains demonstrations and product training videos for Ganz Video Surveillance products.' The 'Uploads' section lists six videos:

| Video Title | Duration | Views | Time Ago |
|--|----------|----------|--------------|
| CORTROL Installation | 6:39 | 27 views | 2 weeks ago |
| CORTROL Playback | 8:14 | 16 views | 2 weeks ago |
| CORTROL Recording Setup | 9:12 | 31 views | 3 weeks ago |
| PixelMaster Embedded NVR: Network IP Setup | 6:18 | 20 views | 4 months ago |
| PixelMaster Embedded NVR: Camera Installation menu | 6:08 | 25 views | 4 months ago |
| PixelMaster Embedded NVR: Installation Mode | 4:30 | 22 views | 5 months ago |

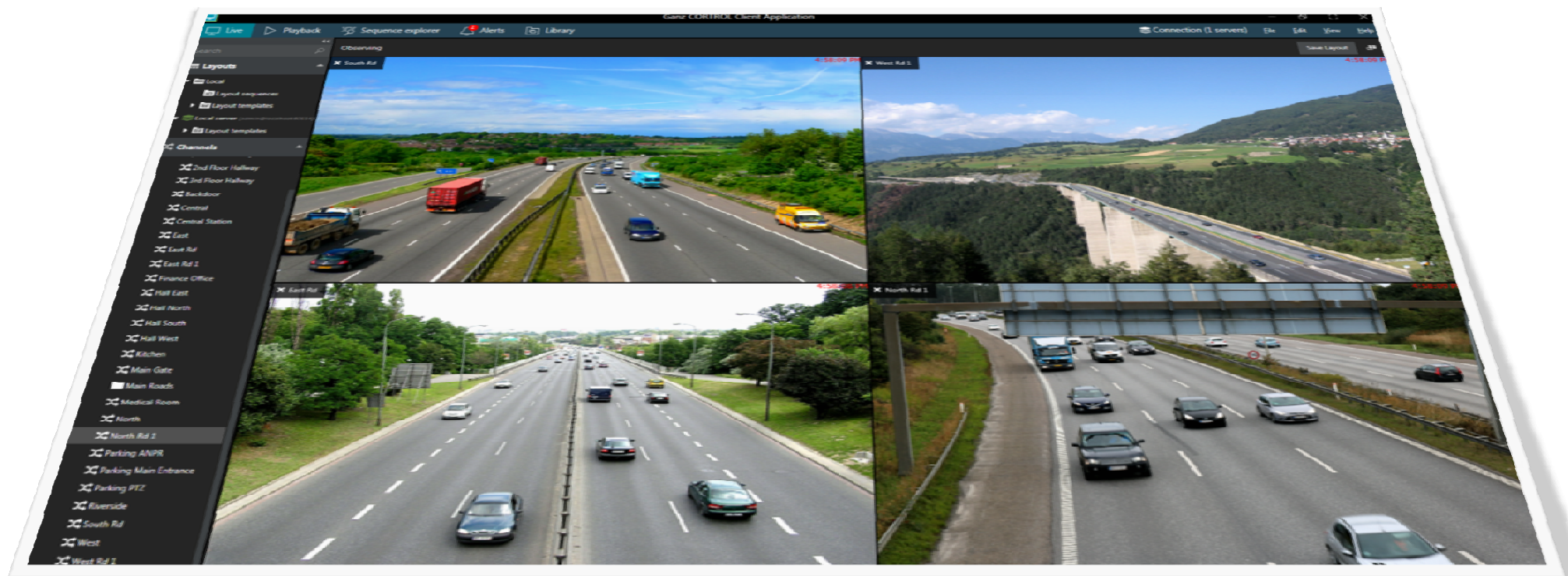
The 'Created playlists' section shows six playlists:

| Playlist Name | Video Count |
|------------------------------------|-------------|
| Control CMS | 3 VIDEOS |
| PixelMaster Embedded NVR | 15 VIDEOS |
| ZNS Video Training Series | 2 VIDEOS |
| Ganz Thermal Imaging Camera Series | 7 VIDEOS |
| GXi Imbedded Intelligence Training | 3 VIDEOS |
| Demos | 2 VIDEOS |



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Thank You



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