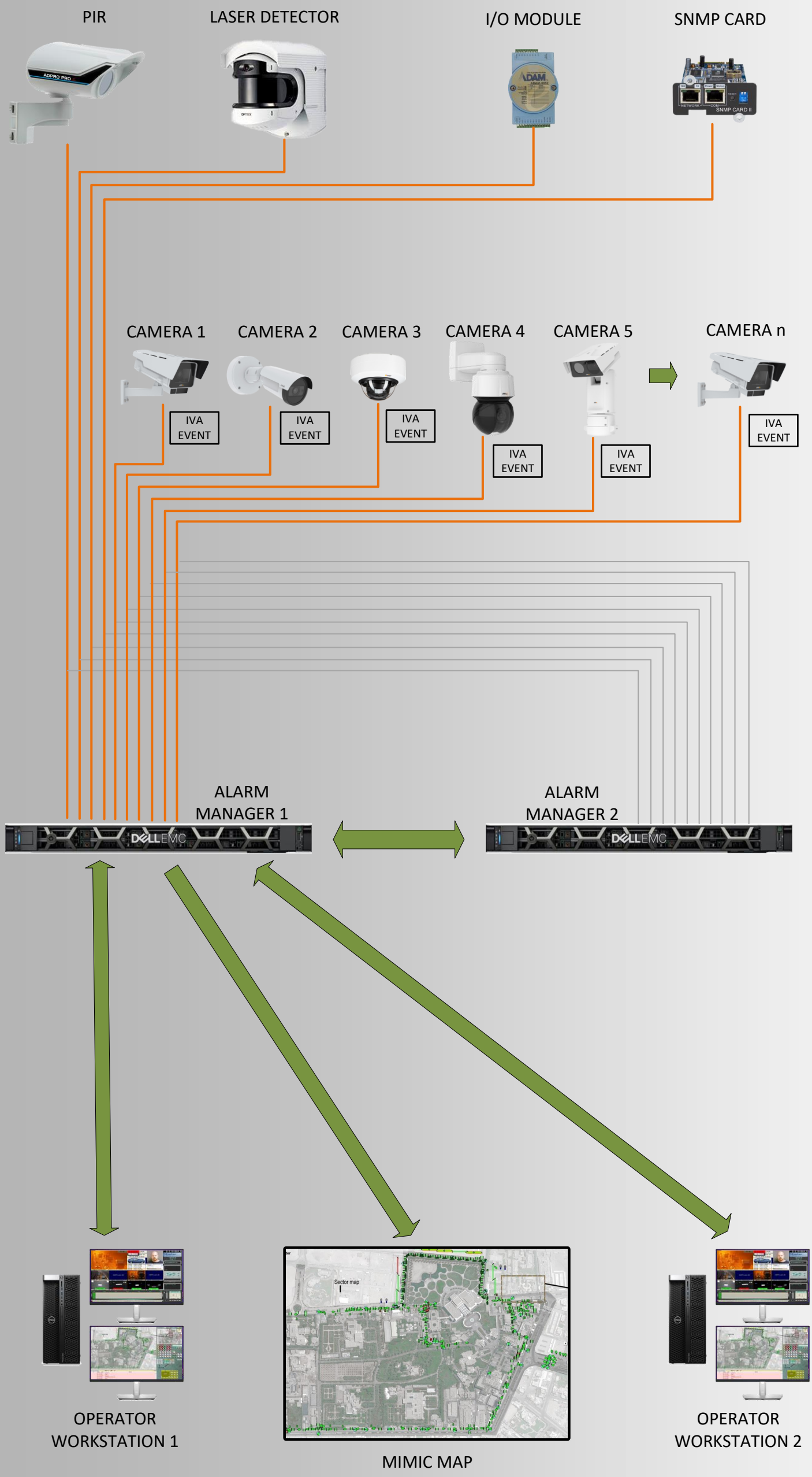
ALARM MANAGEMENT FUNCTIONALITY OVERVIEW



Connection Details

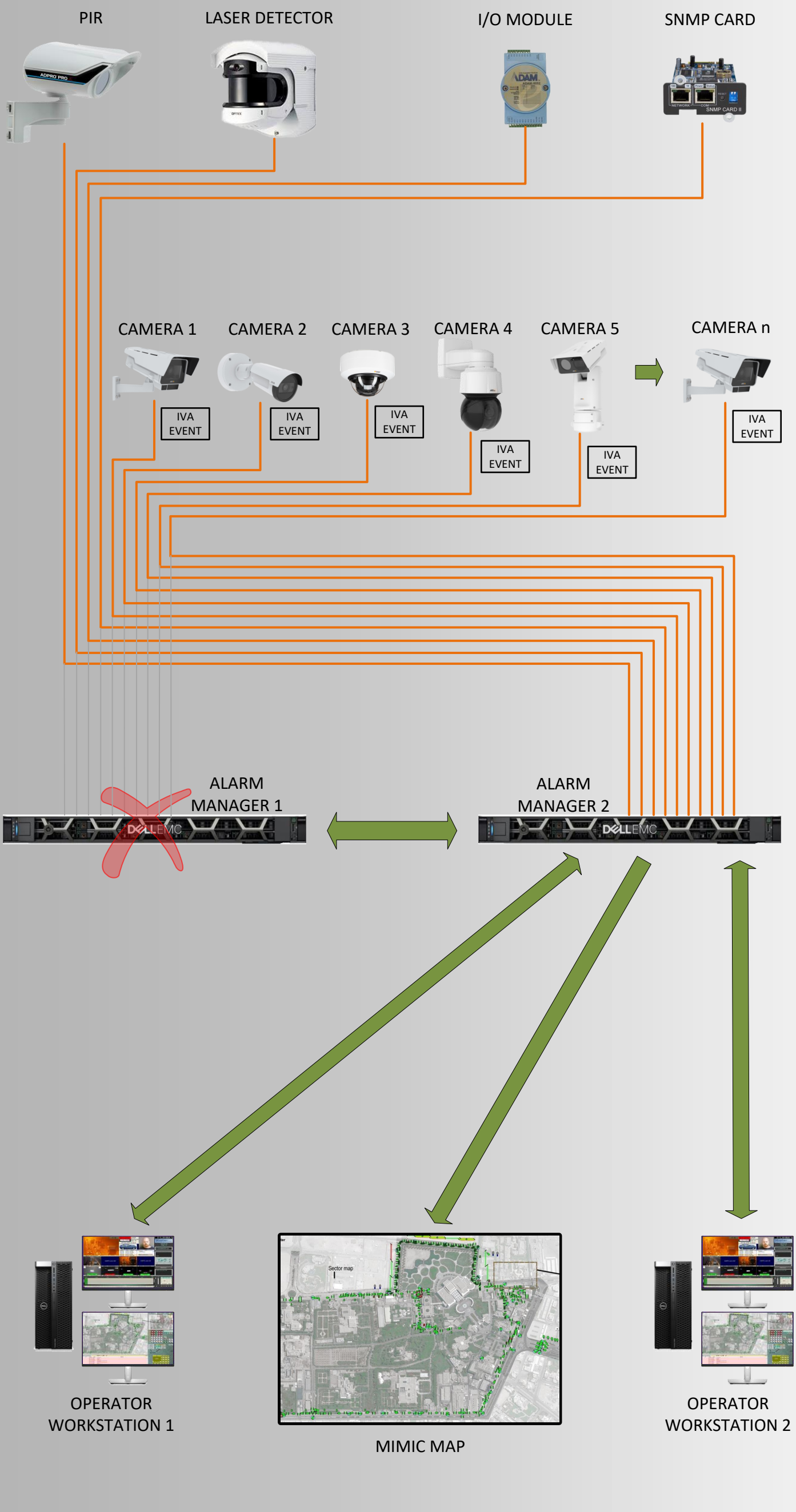
- Network Connection to the Security Devices
- Offline, Disconnected or Inactive Connection
- Command and Information exchange between Alarm Manager and Workstation / User

Symbol Details

- Passive Infrared Device Xtralis ADPRO E-100H
- Laser Detector Device – OPTEX RLS-3060v
- Input / Output Module – ADAM 6052
- SNMP Card for monitoring status of Devices
- Fixed Box Camera
- Bullet Camera
- Dome Camera
- PTZ Camera
- Thermal Camera
- IVA EVENT — Intelligent Video Analytics – Event Triggered
- Alarm Management Server – Control and Check each device for Site Protection and to handle pre-configured action based on the type of Event triggered
- Operator Workstation for viewing Videos and monitoring Alarms
- Mimic Map displayed on the Video Wall – shows the status of all Security Devices

- System alarms are generated from the different alarm sources like Sensors (PIR and Laser), contacts connected to the input of the ADAM module, the status of SNMP cards, and by the Camera built-in Intelligent Video Analytics.
- The Alarm Manager integrates and coordinates all elements of outdoor and indoor surveillance, security and monitoring systems.
- The main goal of the Alarm Management is to provide the user with all necessary information and to be able to decide what further actions have to be taken.

ALARM MANAGEMENT REDUNDANCY OVERVIEW



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- Operator Workstation for viewing Videos and monitoring Alarms
- Mimic Map displayed on the Video Wall – shows the status of all Security Devices
- Device has failed

- The Alarm Manager 1 (Main) and the Alarm Manager 2 (Redundant) have the same information about the state of the system. If Alarm Manager 1 goes offline or fails for some reason, Alarm Manager 2 will automatically take over all functions related to alarm monitoring and control. It will perform all other management functions seamlessly.

VIDEO MANAGEMENT FUNCTIONALITY OVERVIEW

OPERATOR WORKSTATION 1

MULTIMEDIA CONTROLLER 1

MULTIMEDIA CONTROLLER 2

OPERATOR WORKSTATION 2

Cam 01

Cam 02

Cam 03

Cam 04

Cam 05

Cam 06

Cam 07

Cam 08

Cam 09

Cam 10

ViseServer 1

ViseServer 2

ViseServer 3

ViseServer 4

ViseServer 5

Storage

Cam 11

Cam 12

Cam 13

Cam 14

Cam 15

Cam 16

Cam 17

Cam 18

Cam 19

Cam 20

Connection Details

Main connection to the ViseServer

Redundant connection

Communication with Storage

Symbol Details

Fixed Box Camera

Bullet Camera

Dome Camera

PTZ Camera

Thermal Camera

ViseServer – provides the Video stream where it is requested

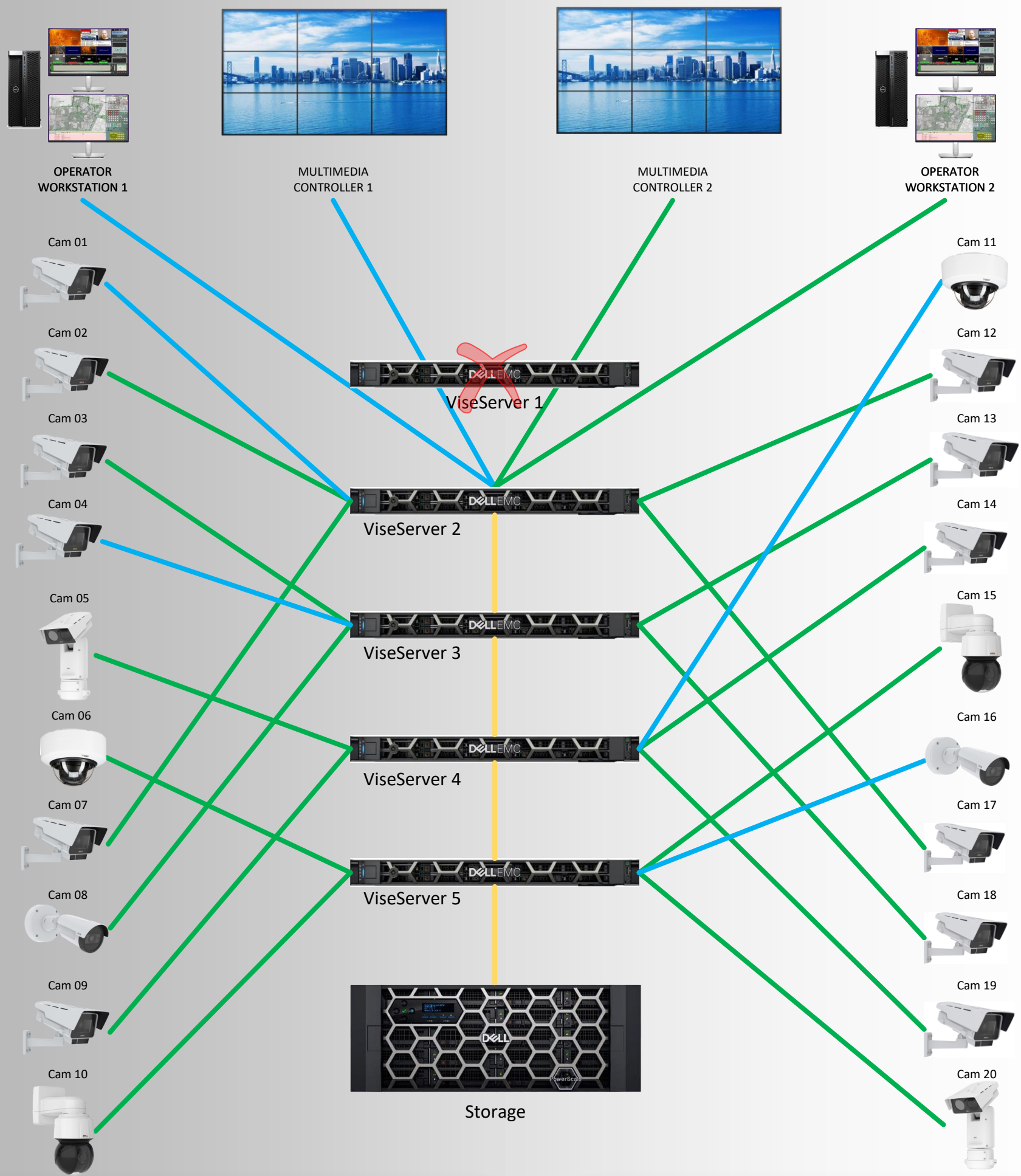
Operator Workstation for displaying Video streams and monitoring status of devices

Multimedia Controller – shows the alarmed camera with its neighbour cameras including video playback of the alarm recording

Storage

- The ViseServer is capable of managing digital video for very large complex systems. It is the flexible modular core, in charge of distributing all connected video signals and seamlessly delivering real-time full framerate, high-resolution video and audio.
- Each ViseServer forms its own domain to segment the network traffic and control the bit rate. It provides connectivity/routing to all other domains. The crucial point is that the transition between modules is completely invisible to the operator who is viewing the system as one entity.
- Each of the powerful IP-Video servers manages a segment of operator workstations, monitors, cameras, etc. In bigger installations where multiple servers are required, traffic is controlled so each server only forwards relevant data which has been requested by other segments or is intended for specific segments.
- The ViseServer recording servers can be configured to take over the cameras of another ViseServer unit that has failed or is under maintenance.
- The operator workstation is usually equipped with dual-screens, the traditional CONDUCT-iP GUI on the left and TimeLine on the right.
- The video can be displayed on a local operator workstation or on video walls for shared viewing in larger control rooms.

VIDEO MANAGEMENT REDUNDANCY OVERVIEW



Connection Details

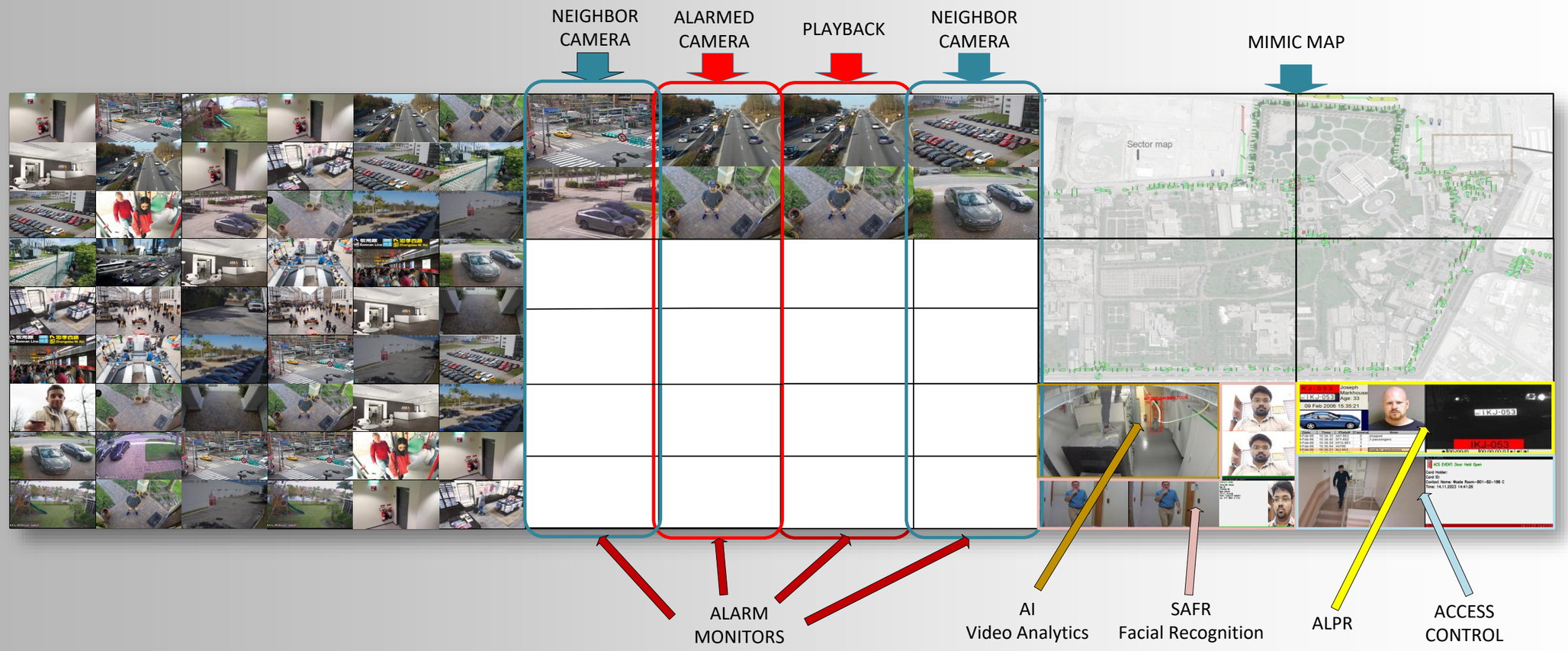
- Main connection to the ViseServer
- Redundant connection
- Communication with Storage

Symbol Details

- Fixed Box Camera
- Bullet Camera
- Dome Camera
- PTZ Camera
- Thermal Camera
- ViseServer – provides the Video stream where it is requested
- Operator Workstation for displaying Video streams and monitoring status of devices
- Multimedia Controller – shows the alarmed camera with its neighbour cameras including video playback of the alarm recording
- Storage
- Device Failure

- In the example shown, there are 5 ViseServers and 20 cameras. All cameras will be assigned to each ViseServer in sequence so that each ViseServer will have the same number of cameras. The staggered assignment will ensure that other neighbouring cameras will still be able to monitor the area instead of a whole block of cameras losing video.
- The redundant connections are also configured in a sequence, so that in case of a failed ViseServer, the cameras originally assigned to the failed ViseServer will be distributed evenly to the other ViseServers. As shown above, ViseServer 1 has failed. Prior to failure it is connected to Cam 1, Cam 6, Cam 11, and Cam 16. After failure, these four cameras were distributed to all the other functioning ViseServers evenly.
- ViseServer 1 is also connected to Operator Workstation 1 and the Multimedia Controller 1 while ViseServer 2 is connected to Operator Workstation 2 and Multimedia Controller 2. As ViseServer 1 has failed, both Operator Workstation 1 and Multimedia Controller 1 has been assigned to ViseServer 2.

VIDEO WALL SCEEN LAYOUT



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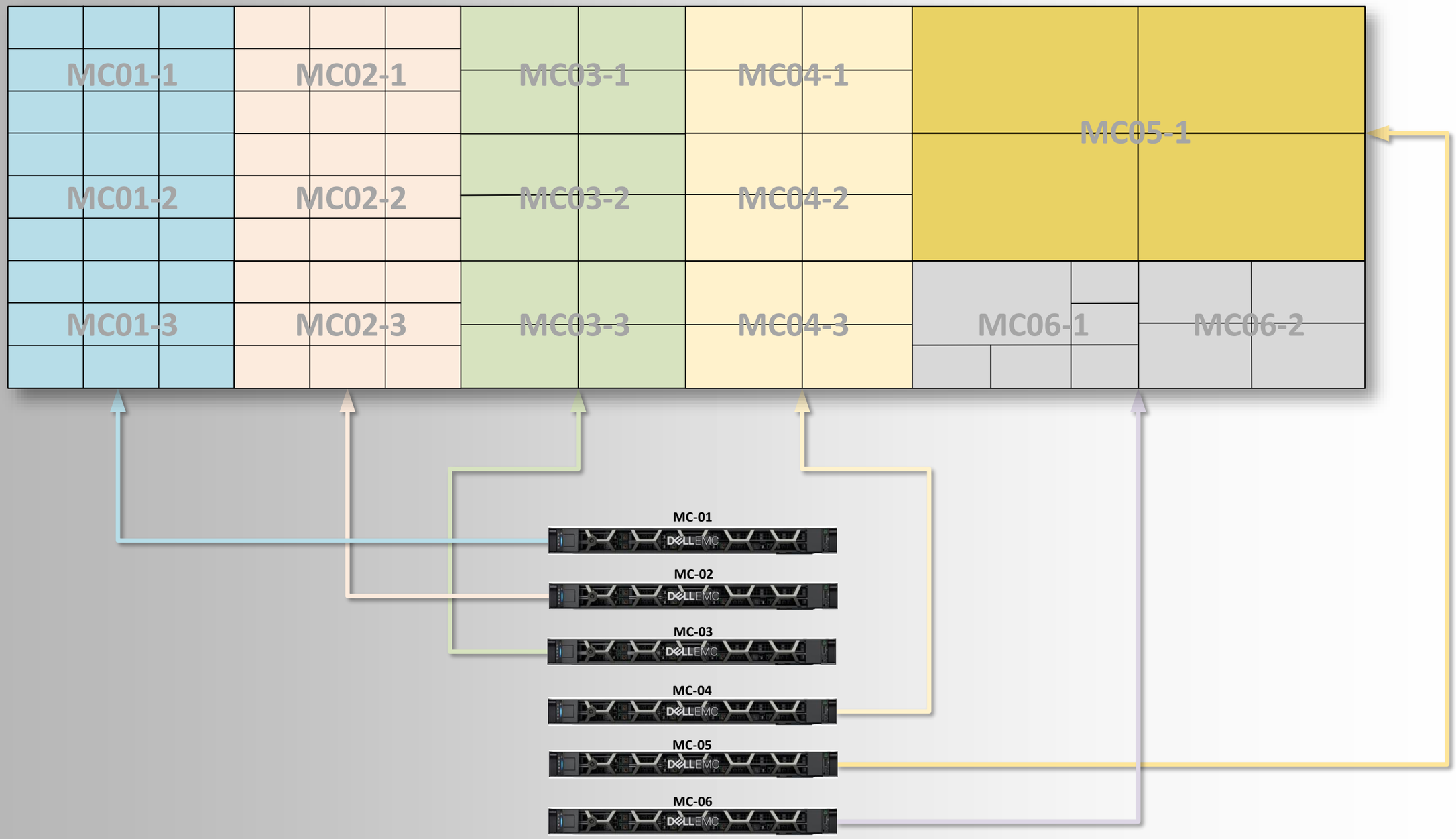
Future Security

VIDEO WALL - MEDIA CONTROLLER ASSIGNMENT



MEDIA CONTROLLERS

ALARM MANAGER

LOGIC ANALYZER

PIR

LASER

CAMERA

IVA EVENT
VIDEO MOTION

OR

AND

PIR

LASER

CAMERA

IVA EVENT
VIDEO MOTION

OR

AND

PIR

LASER

CAMERA

IVA EVENT
VIDEO MOTION

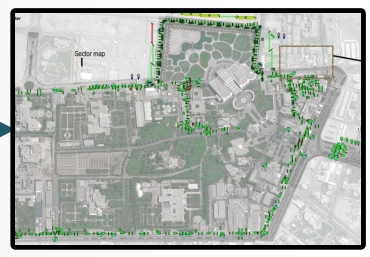
OR

AND

ALARM PROCESSING

MODBUS

OPERATOR
WORKSTATION 1



MIMIC MAP

	Surveillance mode
	Monitoring mode: no IVA enabled
S	Standby mode: no alarm detection, only video signal
C	Camera off: no video signal display, no alarm detection
M	Menu: sensor is in programming mode
L	Contrast alarm
P	Port of view alarm
I	Camera in alarm
V	Video signal missing
?	Status of camera sensor is unknown
	This camera has been defined to have no sensor attached

OPERATOR
WORKSTATION 2

LCP TAMPER

I/O MODULE

SNMP CARD

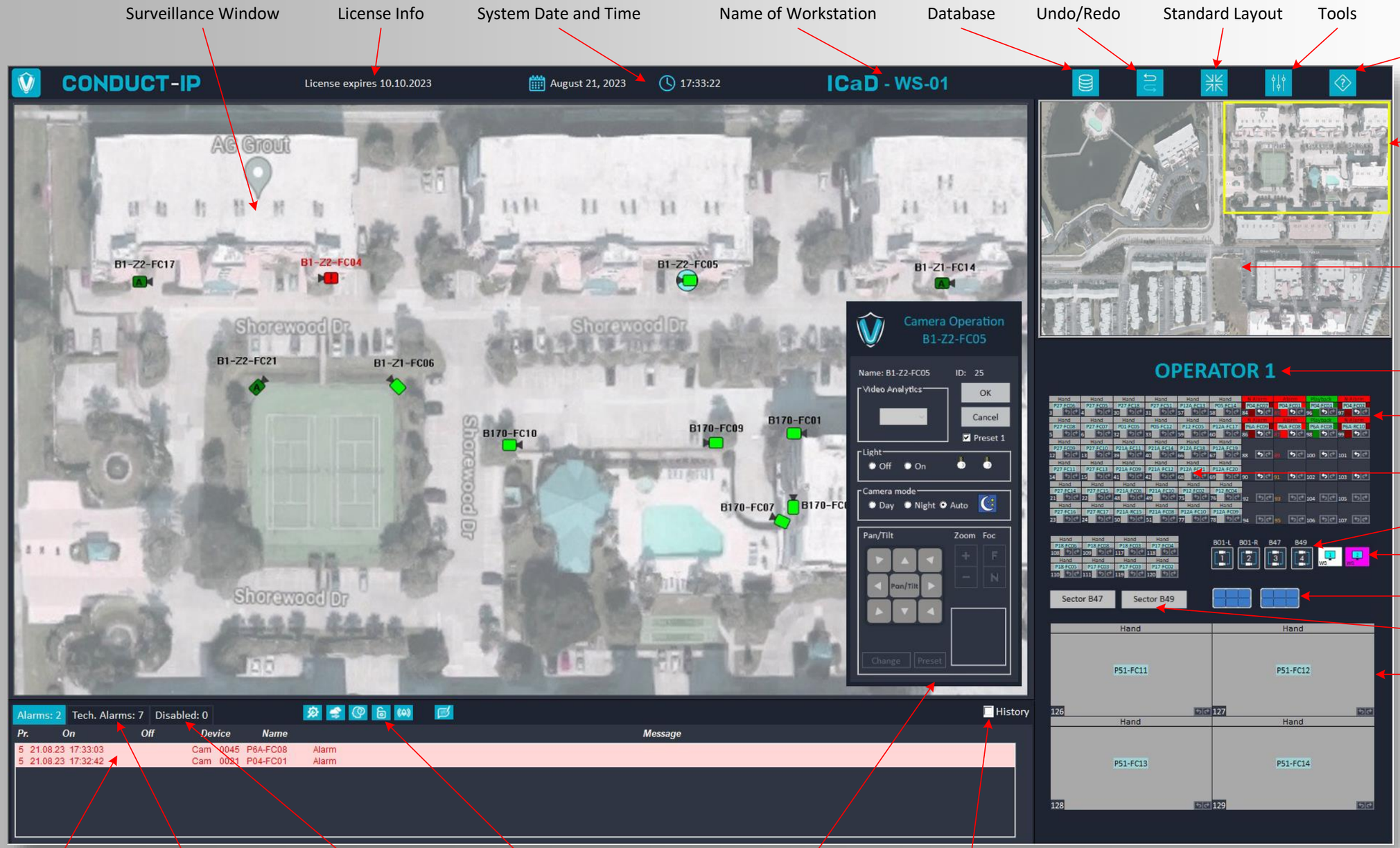
UPS

NORMAL STATUS

ALARMED STATE

ALARM DISPLAY

CONDUCT-iP Screen



Surveillance Window

License Info

System Date and Time

Name of Workstation

Database

Undo/Redo

Standard Layout

Tools

Help

Sector View

Overview

Workstation Description

Alarm Monitor Panes

Video Wall Panes

Sequence Buttons

Workstations Status

User Buttons

Sector Buttons

Timeline Panes

Alarms List

Technical Alarms List

Disabled List

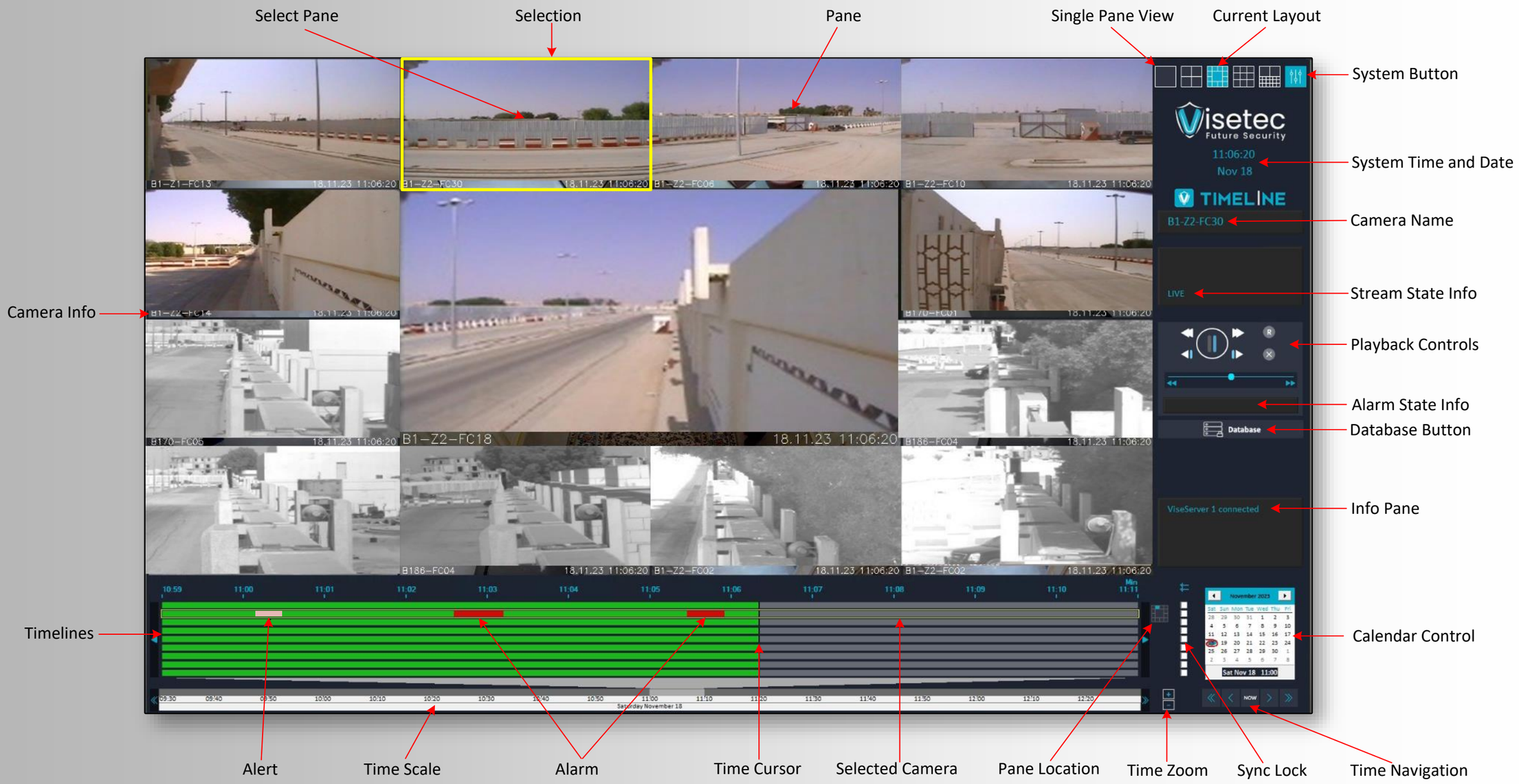
Alarm Cause Icons

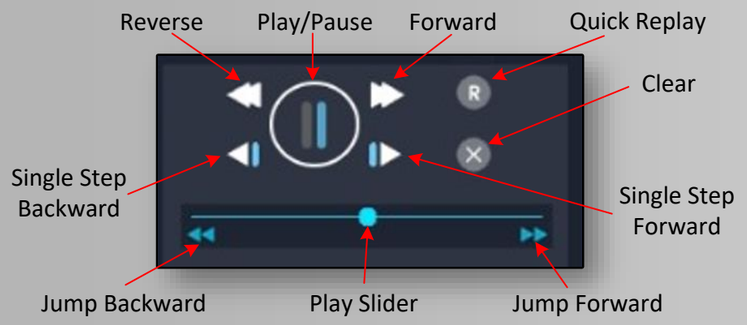
PTZ Control Dialog

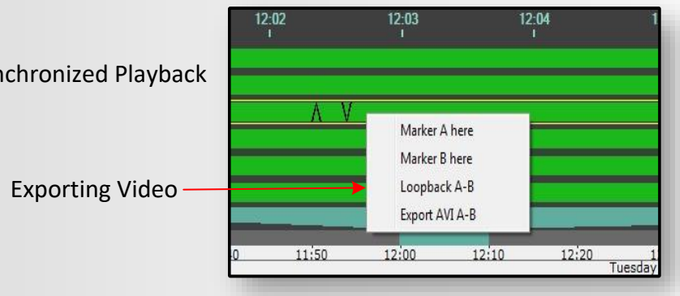
History Checkbox

- Quick and convenient navigation
- Operator never loses orientation
- Drag and drop
- One-touch-controls
- PTZ control

TIMELINE







- Variable Screen Layout
- Multiple Media Support (Video, Audio, ACS, ANPR)
- Instant Replay
- Alarm Loop Replay
- Synchronized Playback
- Export Video