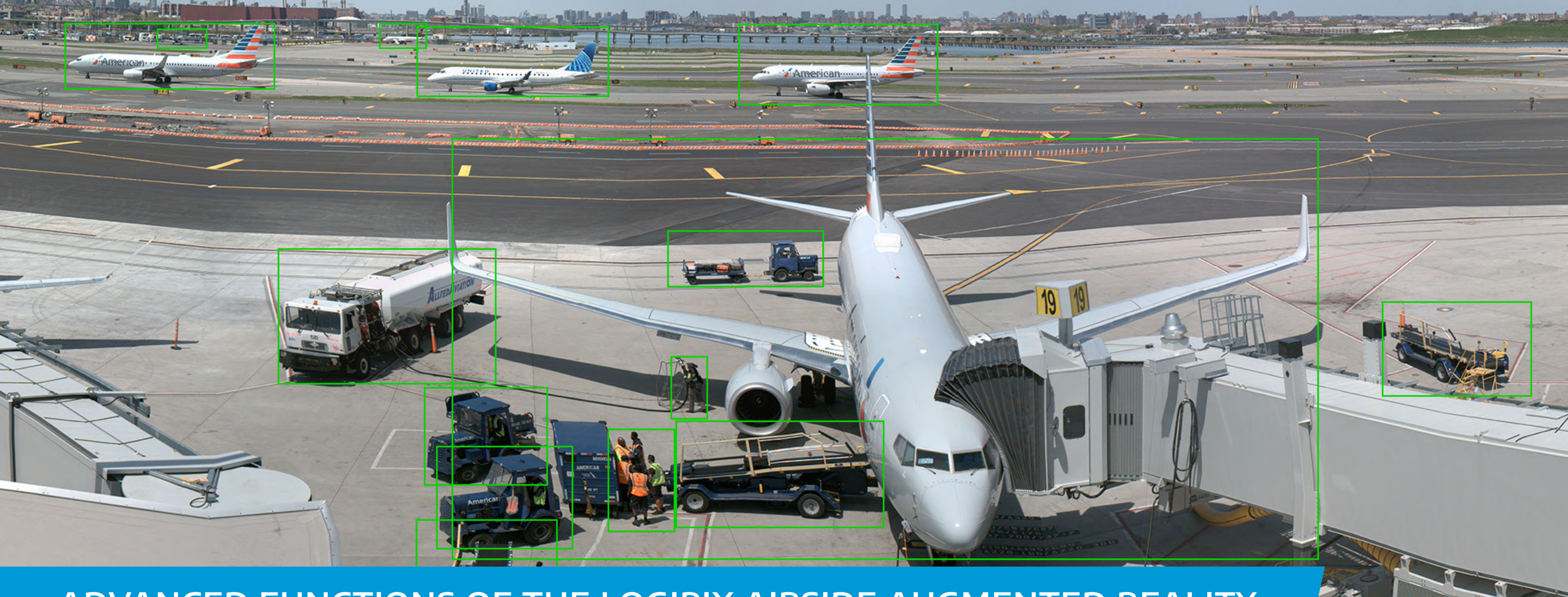




# VIRTUAL PTZ SOFTWARE FOR LAARS INTEGRATION TO 3<sup>rd</sup> PARTY VMS

ALL IMAGES IN THIS BOOKLET WERE TAKEN BY LOGIPIX CAMERAS





## ADVANCED FUNCTIONS OF THE LOGIPIX AIRSIDE AUGMENTED REALITY

The LAARS was specifically developed to fulfill complex monitoring tasks at the airside. Logipix Panorama cameras monitor wide areas with hundreds of megapixel resolution and the day-by-day operation is aided by advanced Video Content Analysis and Augmented Reality functions.



# HIGHLIGHTED LAARS CAPABILITIES



- Providing thousands of megapixel coverage with only a few 300 MP panoramic images
- Cross-correlated video and virtual information storage system
- JPEG2000 image compression standard to provide lossless quality at full resolution during monitoring
- Video history – object status and incident-based archive retrieval
- Automatically detecting, tracking and classifying many thousands of objects at the same time
- Geofencing & virtual fence functions to automatically detect airside traffic violations and unauthorized access into forbidden areas
- Automatic Landing & Take-off registration
- Increased situational awareness by proximity alert and collision prediction functions
- Automatic FOD detection

LOGIPIX Airside Augmented Reality Software Object tracking

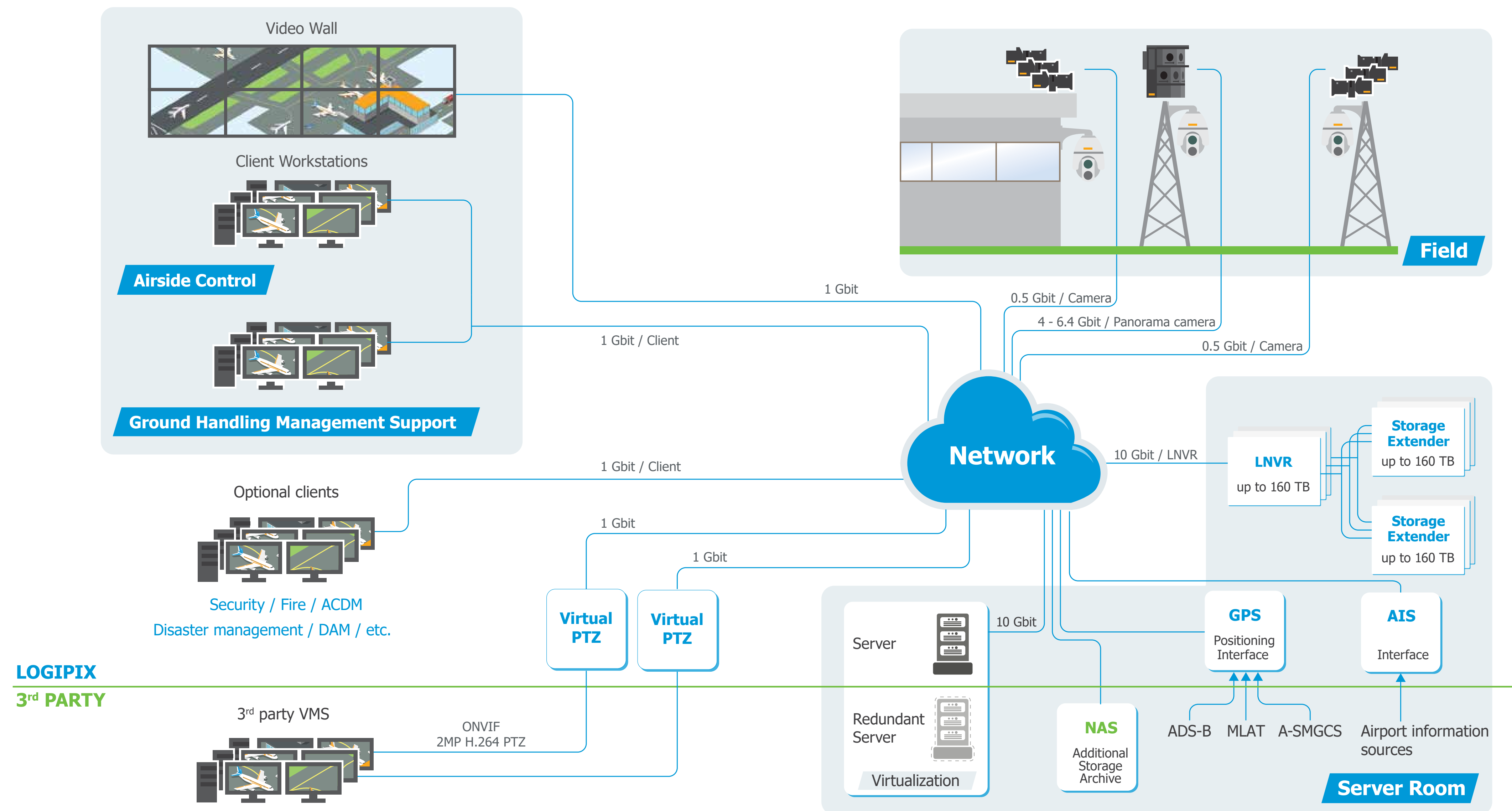
Notification MIAL LAARS\_01 LAARS\_02 Login : tmuka Live 3/26/2021 11:49:52 AM UTC

43 13400535 13362902 13376209 13398593 13401975 13053374 13401709 13401206 13121093 1340096

Status	Type	Area	Violation	Date
In motion	Vehicle	8Runway1		2/19/2021
In motion	Vehicle	8Runway1		2/19/2021
In motion	Vehicle	8Runway1		2/19/2021
In motion	Vehicle	8Runway1		2/19/2021
In motion	Vehicle	K_Runway2		2/19/2021
Gone	Human	8Runway1		2/19/2021
Gone	Vehicle	K_Runway2		2/19/2021
Gone	Vehicle	K_Airside1		2/19/2021
Gone	Vehicle	8Runway1		2/19/2021
Stopped	Vehicle	K_Airside1		2/19/2021
Gone	Vehicle	8Runway1		2/19/2021
Gone	Vehicle	8Runway1		2/19/2021
In motion	Vehicle	8Runway1		2/19/2021
In motion	Vehicle	8Runway1		2/19/2021
Stopped	Vehicle	K_Airside1		2/19/2021
Gone	Vehicle	K_Runway2		2/19/2021
In motion	Vehicle	8Runway1		2/19/2021
Gone	Vehicle	8Runway1		2/19/2021



# LAARS SYSTEM ARCHITECTURE

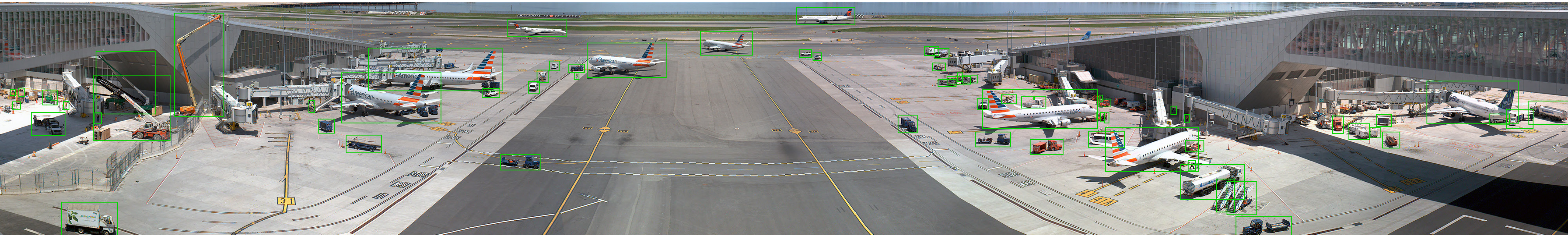




# THE LOGIPIX VIRTUAL PTZ SOFTWARE

How the high-level LAARS functions can appear in a third-party VMS?

Logipix developed the Virtual PTZ software to fulfill this purpose.



## Preserving cross-correlated virtual information

Augmented Reality visual information is not part of the native video streams.

The LAARS performs the VCA and also collects additional information on the objects of the airside. It layers these information on the LAARS interface.

In order to transmit both video and AR visualization, LAARS fuses these information together and generates a standard ONVIF stream from them.

## Data transmission

The LAARS can manage cameras with resolutions up to 300 MP. It is difficult to transmit this heavy stream to a third-party VMS. The well-known third-party Video Management Solutions are not capable to compress and display this resolution.

Logipix transforms its cross-correlated video and virtual information into an interactive, Full HD ONVIF video stream.

The third-party VMS can receive and seamlessly display this video stream.

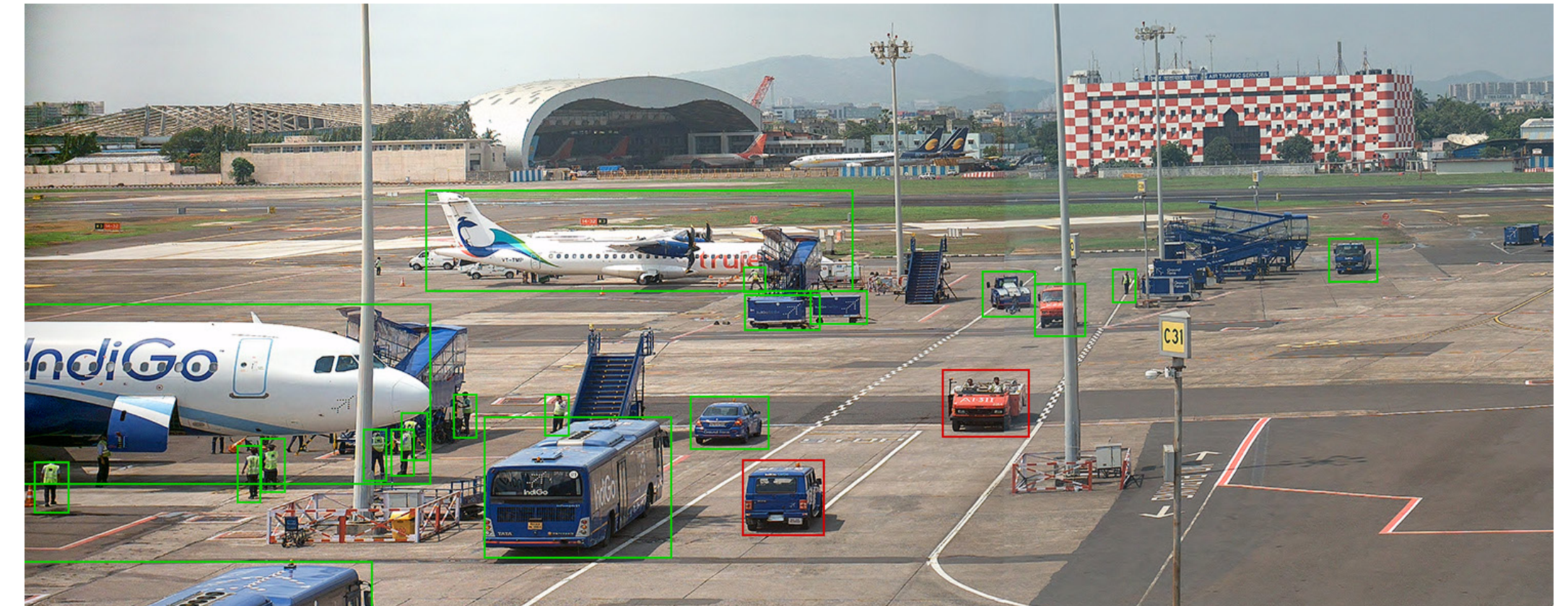


# THE LOGIPIX VIRTUAL PTZ SOFTWARE

## Interactivity, smooth control

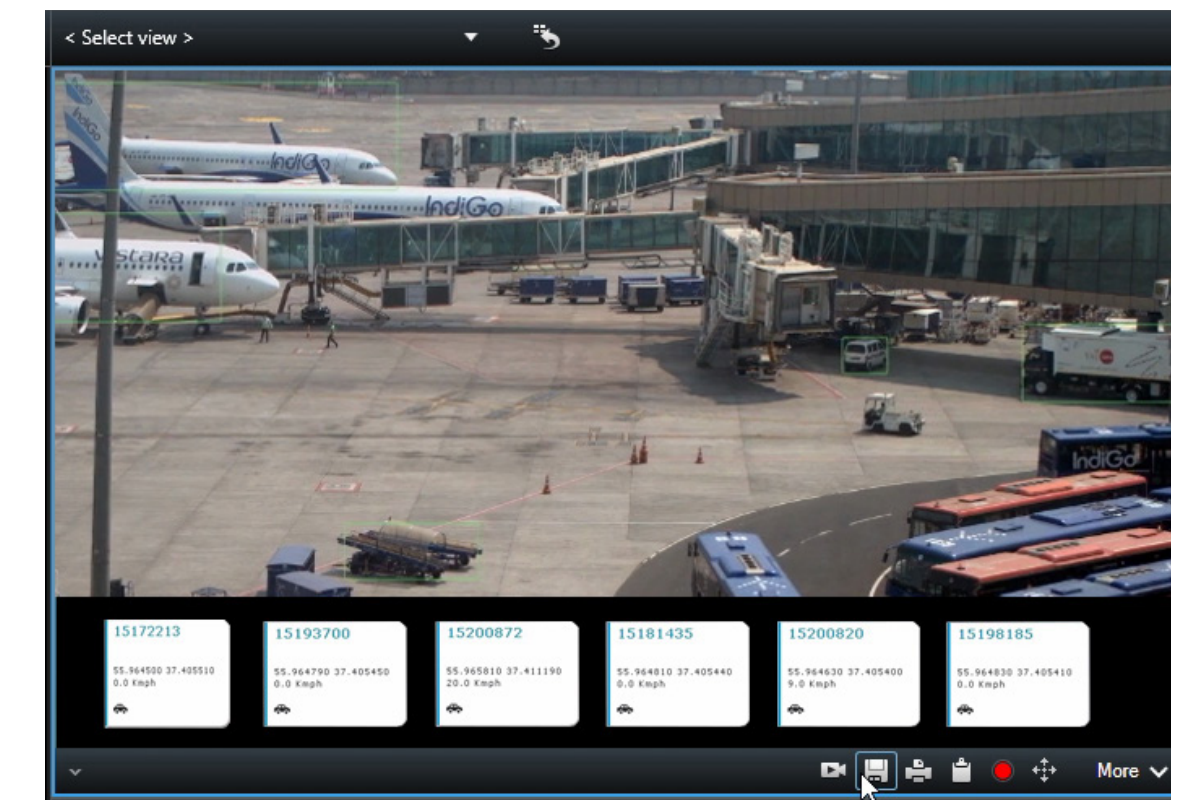
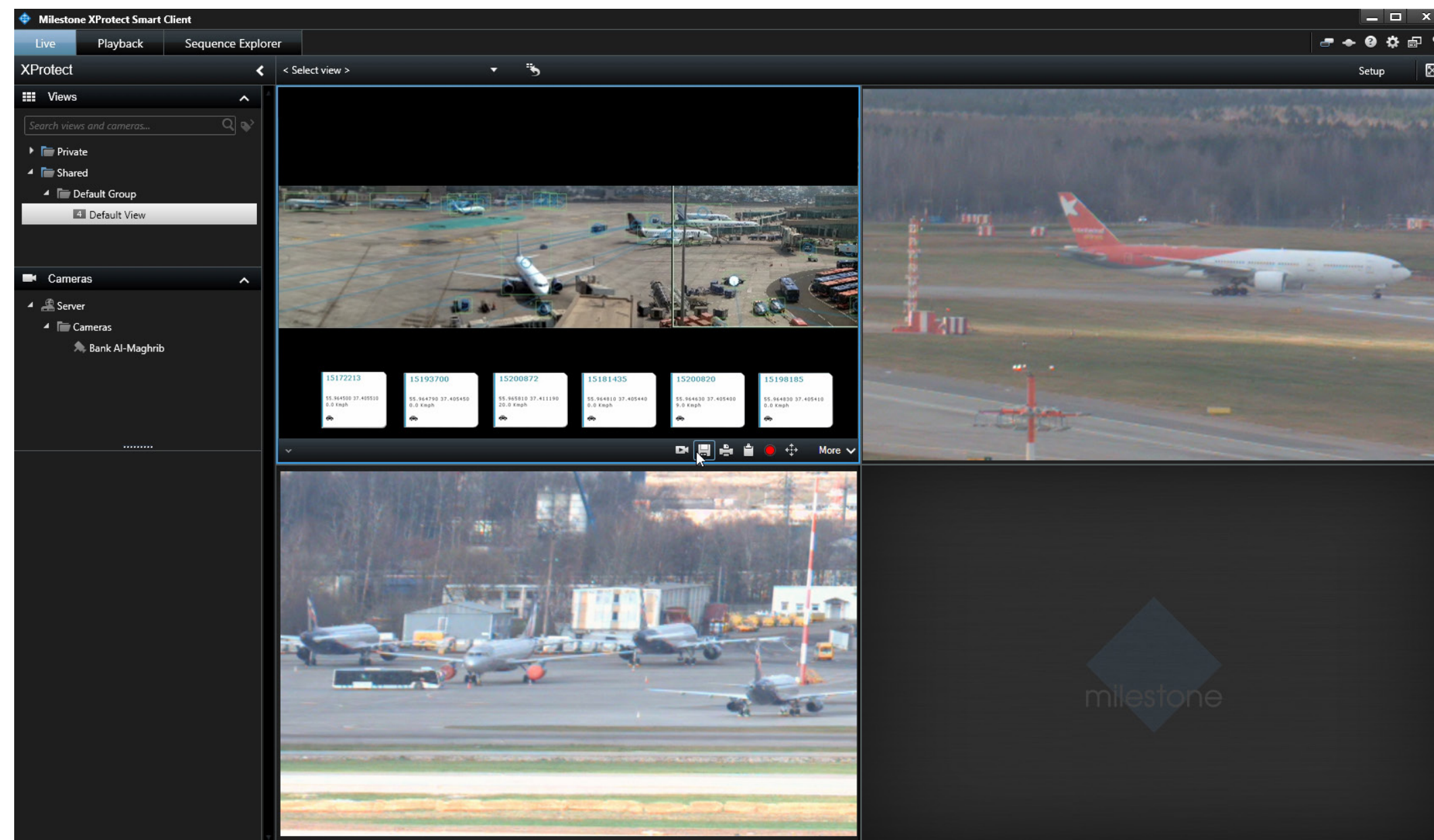
Operators can navigate within the full resolution panoramic video as if they were controlling a real PTZ camera with their joystick keypad.

The Virtual PTZ software recognizes joystick movements and decodes keypad shortcuts to access special LAARS functions.



## Available interactive functions

- Pan/Tilt/Zoom on the panoramic image
- Switch between cameras and views
- Live/archive switch
- Automatic zoom on alerting object
- Object lock, tracking





# BENEFITS OF USING THE VIRTUAL PTZ FOR INTEGRATION



- No third-party VMS development is necessary.
- This integration technology does not restrict the capabilities of the LAARS.
- Even a single camera license of third-party VMS is sufficient to cover the entire multi-panoramic camera view.
- Multiple Virtual PTZs can be deployed simultaneously in order to feed multiple workstations.
- All that is needed to apply this integration technology is a client computer and the Virtual PTZ software itself.







## ABOUT LOGIPIX

Logipix Technical Development Ltd. is a privately held company established in 1996 in Budapest, Hungary. Since then, Logipix has grown into the international company that it is today – one of the most innovative, end-to-end video surveillance solution developers and manufacturers. Today the main profile of the company is to provide specially designed, high-end video surveillance solutions considering the various characteristics of different application areas.

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