

# Dell Technologies and NVIDIA Metropolis with Herta

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## Solution Overview

### Abstract

NVIDIA has partnered with Dell Technologies to develop the Metropolis video analytics platform. This solution enables Herta video analytics applications to co-reside on a single server in a containerized manner, making it easy to deploy, manage, and scale. Intelligent Video Analytics is key to turning this data into insights.



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## Solution overview

The video analytics market has seen the emergence of new sensors, higher resolutions, and longer retention times—generating massive streams of data that need analysis. Approximately 94% of video goes unreviewed, and companies struggle to support and scale their present infrastructure to maintain basic levels of service. Intelligent Video Analytics is key to turning this data into insights.

The purpose of this guide is to help you understand the benefits of implementing the Metropolis video analytics platform with leading Herta Security.

## Scope

This guide provides information for Herta using NVIDIA Metropolis for Intelligent Video Analytics.

This guide is intended for use by internal Dell EMC sales and presales personnel, and partners.

It includes the following design considerations:

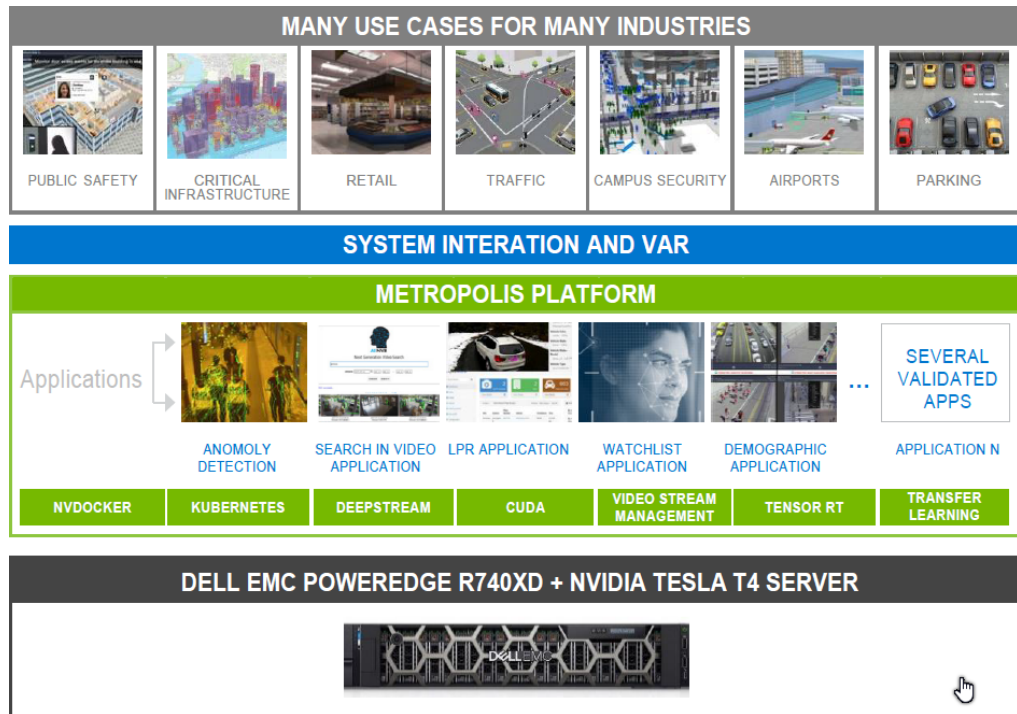
- Design overview of NVIDIA Metropolis
- Verified Herta software vendors

## Metropolis platform design

Video analytics solutions are a combination of processing hardware and video analytics applications from Independent Software Vendors (ISVs). These analytics solutions must be designed, sized, integrated, and configured. This can be a complex challenge that can result in increased capital and operating expenses.

Partnering with Dell Technologies, NVIDIA has developed the Metropolis video analytics platform. The combination of an integrated and tested solution based on the Dell EMC PowerEdge R740xd server and NVIDIA T4 GPUs enables multiple video analytics applications to coexist on a single server in a containerized manner. This solution makes it easy to deploy, manage, and scale.

**Figure 1** Metropolis architecture

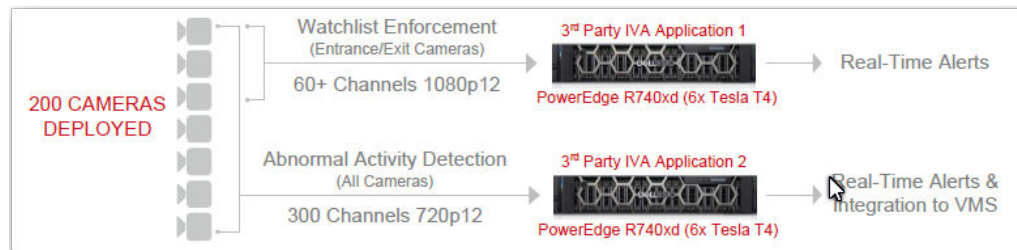


The Metropolis platform provides the following benefits over existing analytics architectures:

- A modular, future-proof, scalable platform for real-time insights
- A proven edge to cloud solution tested with multiple applications on predefined servers configuration
- Containerized applications for ease of installation, deployment, and management
- Ability to augment staff, reduce operational costs and increase operational effectiveness
- Improved ROI on video infrastructure by delivering actionable insights that impact safety and revenue

The Metropolis platform enables multiple video analytics applications to coreside on a single server in a containerized manner.

**Figure 2** Metropolis sample deployment



## Herta Security

Herta is a world leader in the development of cutting edge facial recognition solutions. Based in Barcelona and with offices in Madrid, London and Los Angeles, the company offers fast, accurate, robust, end-customer oriented solutions for video surveillance, access control, and marketing requirements. Its international projects include safe-cities, airports, train and metro stations,

prisons, banks, casinos, sports stadiums, shopping malls, military, police, and forensic applications. Herta has partners in 50 countries and more than 150 certified integrators globally.



Real-time facial recognition and forensic alerts in large crowds.

**Key solution**

Facial Recognition

**Benefits**

- Can process 30M faces per second
- System installed in Airports, Stadiums, Casinos, Buildings
- Easy to use with high accuracy
- Open and scalable for enterprises

**Customer successes**

- Lagos Airport Security
- Colombian Police Force

## Summary

The NVIDIA Metropolis video analytics platform, combined with Dell EMC PowerEdge R740xd servers, makes Intelligent Video Analytics easy to deploy, manage, and scale. Customers can deploy multiple IVA algorithms on a single server with as many GPUs as needed.

This video analytics solution successfully integrates the Metropolis processing hardware with Herta Security video analytics applications.