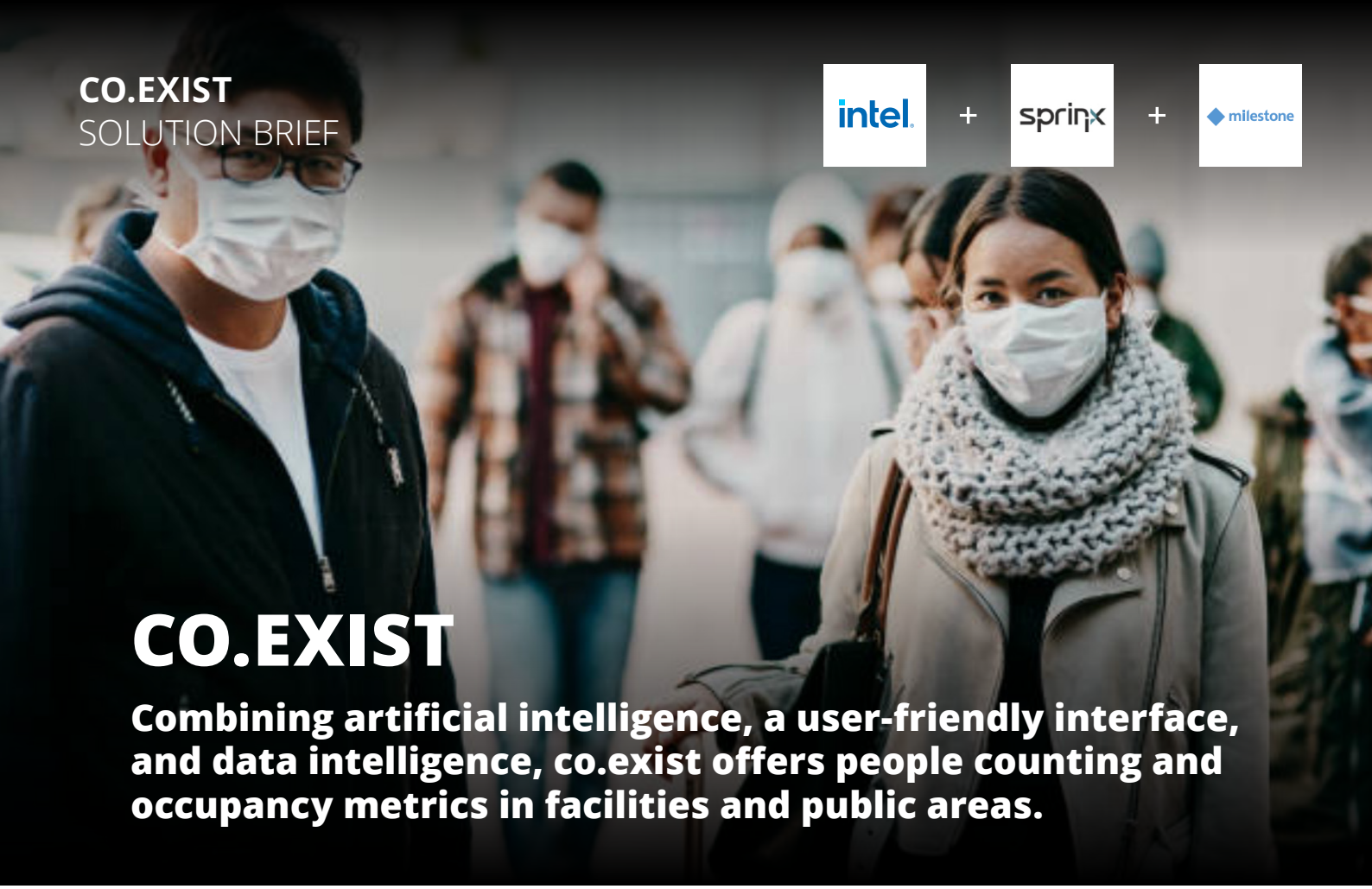
CO.EXIST
SOLUTION BRIEF



CO.EXIST

Combining artificial intelligence, a user-friendly interface, and data intelligence, co.exist offers people counting and occupancy metrics in facilities and public areas.

Ideal for smart cities, co.exist monitors the movement of people and vehicles to guarantee a safe environment. It integrates seamlessly into Milestone XProtect and Intel OpenVino enabling great flexibility, advanced vision capabilities, and deep learning inference using Intel CPUs and VPUs. co.exist uses neural networks trained for behavior analysis applications, based on Intel® OpenVINO™. This is then combined with the 3D Object Tracking Technology, significantly enhancing the ability to collect statistical data and automatically detect events in mobility.

Intel's robust portfolio of vision products helps Sprinx enhance AI capabilities at the edge for cost-effective surveillance

In today's fast-paced world, businesses need to compute vast streams of visual data and obtain actionable insights in real-time. Many organizations are looking to deploy cutting-edge smart vision solutions to process huge amounts of vision data on-premise and run vision analytics to gather actionable insights. This allows these organizations to address security and safety challenges and gain business intelligence while limiting budgetary impacts.

To address these unique challenges, organizations require a vision solution that:

- Enables responsive, real-time visual analytics by processing at the edge
- Enhances edge AI capabilities and on-premise monitoring without replacing expensive hardware and infrastructure
- Complies with General Data Protection Regulation (GDPR) requirements without collecting PII (Personally Identifiable Information), while integrating and scaling with enterprise systems

Sprinx uses neural networks combined with the 3D Object Tracking Technology for behavior analysis

Sprinx uses cutting-edge technologies like machine learning-based video analytics, and state-of-the-art AI systems optimized for Intel® CPUs (Xeon Silver, Xeon Gold, Xeon Platinum, Intel i5 & i7), Intel VPU's (optional), and Intel® Movidius™ Vision Processing Units.

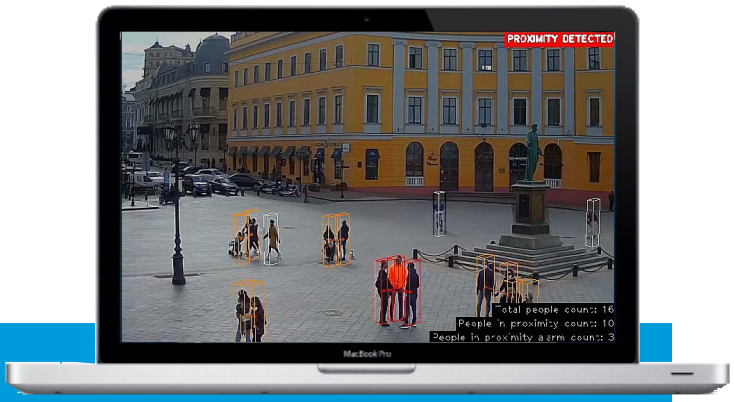
Seamlessly integrated into Milestone XProtect, their product co.exist pulls RTSP and ONVIF video streams directly from surveillance cameras, analyzes them, and triggers different events through the Milestone platform–without the need to install additional equipment. With full Smart Client integration including as a SmartClient Plugin, alarms pop up automatically within the XProtect alarm manager allowing operators to visually verify the situation. In addition, Sprinx and Milestone offer an open environment, so it's possible to install a wide range of powerful analytics to make your system even smarter and tailor-made to your specific requirements. Plus, co.exist can be integrated with any third-party application using standard communication protocols (TCP/IP, OPC UA, MODBUS).

Accelerated computer vision with great flexibility

By leveraging the Intel® Distribution of OpenVINO™ toolkit, Sprinx accelerates computer vision performance, shortens vision solution development, and streamlines deep learning inference and deployment. The toolkit helps Sprinx fast-track the development of high-performance computer vision and deep learning applications.

It allows them to significantly improve the inference runtime and increase vision data processing and performance at the edge. Designed to quickly run and analyze several, extensive streams of data simultaneously at the edge in real-time, it reduces the cost of hardware for Sprinx customers. They can run co.exist on a light, cost-effective edge appliance without latency.

Available both on-premise as well as in the cloud, co.exist integrates seamlessly into Intel OpenVINO™ enabling great flexibility, advanced vision capabilities, and performance, and deep learning inference using CPUs and VPUs for video analytics. By connecting existing surveillance cameras to co.exist, customers can quickly process vision data and identify potential security risks. This is especially useful for safety and security applications in hospitals and public areas to help ensure a safe environment.



Key features of co.exist:

- Proximity Detection (social distancing)
- Overcrowded Area Detection
- People Counting
- Vehicle Counting & Classification
- Traffic Flow Analysis

co.exist is easy to deploy, configure, and manage. It doesn't require a GPU, and with less hardware and labor cost it offers a lower Total Cost of Ownership (TCO) compared with a traditional video analytics deployment.

Intel delivers the most comprehensive array of intelligent vision capabilities

The Intel® Vision Products portfolio is comprised of silicon, software tools, deep learning frameworks, and libraries that are uniquely positioned for the next generation of AI. Intel Vision Products helps you make sense of your data, from the edge to the cloud, so you can act in real-time, make decisions faster, and implement new operational strategies to drive immediate results. At the hardware level, Intel offers the most comprehensive selection of acceleration silicon in the industry.

The Intel® Distribution of OpenVINO™ toolkit is a free, downloadable toolkit within the Intel® Vision Products portfolio. It delivers highly accurate vision analytics performance and computing efficiency. This end-to-end suite helps integrate vision capabilities across your entire end-to-end infrastructure. It's optimized for multiple Intel® Architectures and works with Intel® CPUs, CPUs with integrated graphics, Intel® FPGAs, and Intel® Movidius™ VPUs.

OpenVINO™ unlocks advanced vision capabilities

Using the Intel® Distribution of OpenVINO™ toolkit, Sprinx has enhanced the performance of AI capabilities at the edge.

Without the need to replace infrastructure or hardware, Sprinx customers can now leverage computer vision and deep learning capabilities on their existing cameras and edge devices. This allows these devices to recognize people and objects with processing at the edge. By bringing deep learning to a variety of hardware platforms, Sprinx is increasing the accuracy and value of its insights.

In addition, the Intel® Distribution of OpenVINO™ toolkit helps Sprinx reduce the cost of cloud processing, hosting, and maintenance for their customers. This is because the toolkit improves the speed, scalability, and performance of vision processing at the edge. Furthermore, Sprinx delivers vision solutions to customers that are built to operate in real-time and under even the most unique scenarios.

OpenVINO™

Computer Vision
Deep Learning
Artificial Intelligence

To learn about the Intel® Distribution of OpenVINO™ toolkit and Sprinx products and solutions, visit:

co.exist Homepage Click here

Sprinx Homepage Click here

Intel® Distribution of OpenVINO™ Toolkit Homepage Click here