

Optimize Computer Vision and AI enabled operations with a powerful, resilient, and scalable virtualization infrastructure from Scale Computing, on Intel® NUC and Xeon® Platforms

Intel and Scale Computing present a powerful and innovative solution for high-demand security stacks and edge computing



The industry is expected to grow 20% every year for the next 5 years. There is 1 camera for every 29 People on Earth¹



Over 21% of Security Operations rely on over 10 different solutions²



Video for security and asset management is estimated to be worth \$69.1 billion by 2026³

Downtime in security systems is dangerous and costly

Businesses require a diverse range of edge devices to execute operations. Unfortunately, edge device management is difficult across form factors, locations, and networks, and small interruptions can lead to long downtimes.

Due to this, Information Technology (IT) departments' operations require resilient, scalable, high-quality converged edge solutions, capable of integrating numerous data feeds. These systems need to be intuitive and resilient, in order to manage assets such as cameras, zone access controls, and other IoT-powered devices.

To avoid the loss of time and resources, IT operations require flexible solutions capable of scaling growth and wrangling large divisions or optimizing smaller operations with limited workforces.

Scale Computing provides IT infrastructure virtualization solutions designed to optimize all IT tasks by integrating an operation's Video Management System (VMS) software, with a virtualization solution capable of streamlining and optimizing edge management.

IT Operations can deploy an edge management solution capable of virtualizing a wide range of security applications and systems

Through the Scale Computing architecture, IT teams can manage high-resolution camera systems, acoustic devices, access controls, compliance documentation, dashboards, security protocols, machine learning models, and other data-streams at the edge.

The solution automates redundant tasks, empowering IT experts with the time they need to apply their expertise to higher-priority projects. The Scale Computing solution provides users with a powerful virtualization platform for video and security data management.

About Scale Computing

Scale Computing is a global leader in edge computing, virtualization, and hyperconverged technology, and has built a solution to meet growing market demand for converged edge solutions and small form-factor IoT device network management. Scale Computing software eliminates the need for traditional virtualization software, disaster recovery software, servers, and shared storage, by replacing these with a fully integrated, diversified, and highly scalable solution.

Using patented technology, Scale Computing has developed a self-healing platform that automatically identifies, strategizes, and resolves real-time interruptions. These preventative and prescriptive measures help systems managers achieve maximum uptime.

With this low TCO-to-scale platform, Scale Computing provides an ideal infrastructure for both large enterprises and SMBs looking to expand or optimize their operations at the edge.

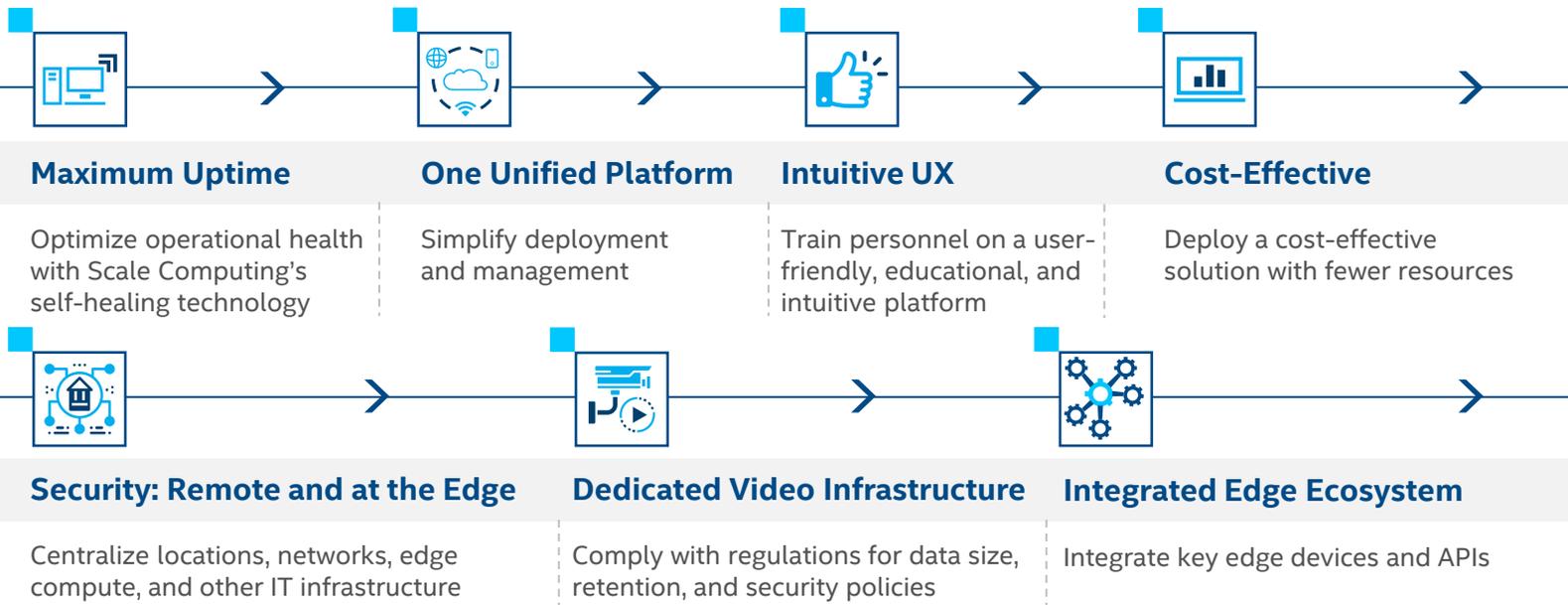
1. [Real-Time Video Analytics: The 'Killer App' for Edge Computing](#), IEEE Computer Society, 2022

2. [Acronys Cyberthreats Report](#), Acronys, 2022

3. [Video Surveillance Market Worth \\$69.1 Billion by 2026](#), GlobalNewswire, 2022

Diverse and complex IoT-enabled security networks require more time and effort to properly manage and maintain.

How can Scale Computing simplify labor-intensive data management tasks? Through a unified infrastructure capable of running applications and processing data on-premises, outside of a centralized data center, or on a cloud platform



Scale Computing strengthens three major tolerances: speed and storage limitations, local hardware failures, and edge device network failures. By developing a ubiquitous system that combines servers, storage, edge, and other devices and virtualization protocols into a single solution, Scale Computing offers a solution that makes workloads easier to manage for businesses of all sizes. Built to overcome emergency shutdowns and other critical failures, Scale Computing's infrastructure is the ideal tool to help systems managers sustain key operations in critical situations.

The solution is available across a broad spectrum of configurations and can be deployed as an individual edge compute, a virtualization platform for multiple edge applications, or as a centralized server for data visualization and analytics. Whether there is one IT administrator or hundreds, Scale Computing's award-winning hyperconverged infrastructure helps IT departments reprioritize their time.

Because of this flexible infrastructure, Scale Computing is fast to deploy and easy to manage, nimble enough to help a growing IT department, and scalable enough to organize enterprises.

This makes Scale Computing's TCO lower relative other IT architecture competitors.⁴

With Intel's architecture, Scale Computing helps IT departments enter a new era of device management and centralized security for complex IoT systems and edge device networks

Intel® Xeon® processors handle the heaviest data loads across cloud, enterprise, HPC, network, security, and IoT workloads, AI acceleration, and other advanced capabilities. Equipped with up to 40 powerful cores, a wide range of power features, and infused with Intel® Crypto Acceleration, Intel® Xeon® processors enhance data protection and privacy by aiming to increase the performance of encryption-intensive workloads including SSL web serving, 5G infrastructure, VPNs and firewalls, or other networks from edge to cloud.

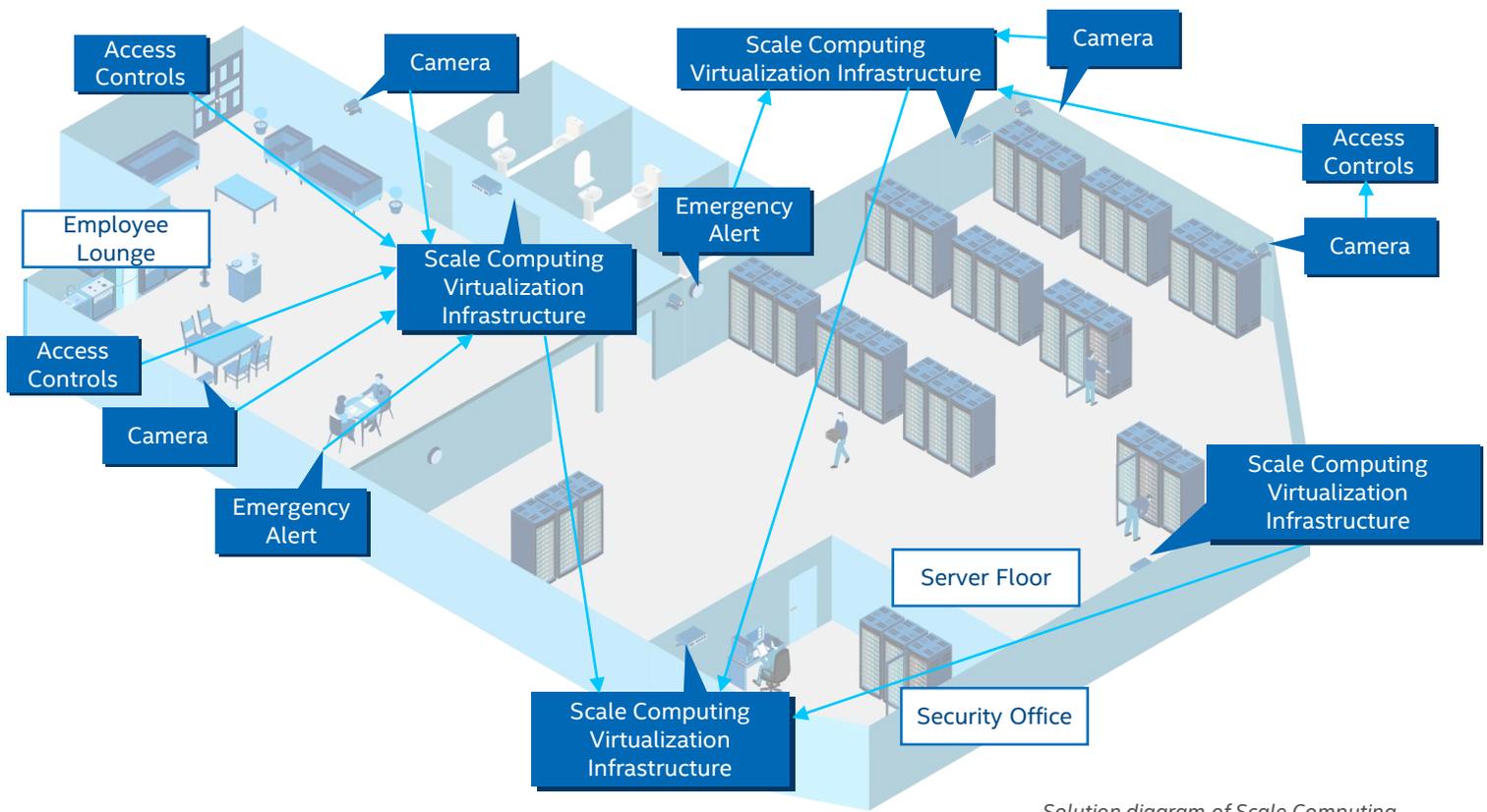
Scale Computing utilizes the Intel® NUC with 11th Gen Intel Core Processors, and vPro technology, to deliver an expandable architecture, that can be deployed almost anywhere without any server rack necessary. This small, robust form factor comes ready to develop-and-deploy within greenfield or brownfield applications, providing customers the compute power necessary to support a wide range of analytics at the edge, and edge AI use cases for enterprise and other business systems.

The Intel® Distribution of OpenVINO™ toolkit offers a layer of value and resilience. By integrating a library of trained models and reference architectures, the Intel® Distribution of OpenVINO™ toolkit creates opportunities for developers to scale their solution without needing to rebuild their models.

4. [Scale Computing, HC3: A Qualitative Evaluation](#), Moore Insights and Strategy, 2020



Scale Computing has a proven record of consolidating complex security systems for regulated industries including gaming and hospitality



Solution diagram of Scale Computing HC3 Video Management System

A new casino on the Las Vegas strip needs to protect over 115,000 square feet of real-estate; a \$4.3 billion venture. They trust Scale Computing to manage their assets⁵.

By utilizing Scale Computing's solution, the casino's security and IT departments developed and implemented a "gold standard" edge device management network and virtual machine (VM) imaging solution that reduced the average VM development and deployment from 20 minutes, to less than 30 seconds.

This solution effectively manages 4,700 cameras at the edge, zone control to 250,000 square feet of meeting and banquet spaces, access to 3,500 rooms, an RFID-activated AI-enabled digital concierge, and a wide range of other edge and compute systems.

Even with this enormous data load, Scale Computing solution provides the casino with the tools necessary to expand the casino's IT architecture as it grows

"The automation and AI capabilities that Scale Computing provides are lightyears beyond those of the competition ...in terms of the ease of configuration and maintenance. Moreover, the learning curve is far easier than other systems we have used which means we can get everyone on the team up to speed and keep them on the same page."

– Head of Casino Security

5. Scale Computing, Internal Case Study, 2021

Learn More

For more information on Scale Computing's Intel-powered solution, please visit the below sites or [reach out to their sales team](#):

- [Product Video](#)
- [White Paper – Scale Computing, HC3: A Qualitative Evaluation](#)
- [Edge Computing Trial Link](#)
- To learn about Intel® technologies visit the [Intel® Distribution of OpenVINO™ toolkit landing page](#)
- [Intel Distribution of OpenVINO™ toolkit Customer Testimonials](#)
- Deep learning boost: [3rd Gen Intel® Xeon® Scalable Processors Brief](#)
- [Benchmarks for Intel® Xeon Processors®](#)
- [Intel® NUC Edge Compute](#)
- [Intel® NUC with 11th Gen Core Processors](#)

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