LiDAR Provides Accurate Real-Time 3D Insights to Restricted Security Area (RSA) Surveillance

Industry Challenges

Intrusion detection requires an accurate, scalable, and cost-effective security solutions. However, competing security technologies pose many risks and challenges, including:

■ Costly False Alarms

In restricted area security applications, false alarms are extremely costly. Whenever an alarm sounds, staff must be mobilized to quickly respond to the threat of an intruder. A security system with a high rate of false alarms not only requires more staff members to respond to these false alerts, but it can also require additional devices to enhance the system's detection accuracy. In addition, frequent false alarms can desensitize operators, lowering their efficiency in responding to alerts.

■ Complex Patchwork of Systems

Adding more technology adds complexity. In many cases, security teams find themselves working with multiple systems that were never really designed to work together. This limits a user's ability to upgrade their security technology, as they must ensure that any upgrades are compatible with all systems. In addition, working with a patchwork of systems can limit productivity and efficiency, which increases the risk of intrusion and negatively impacts safety and reputation.

■ High Costs

The lifetime costs of maintaining multiple systems add up, especially when many devices are needed to achieve the necessary level of accuracy. In addition, users must consider lost productivity costs when constantly switching between disparate systems.
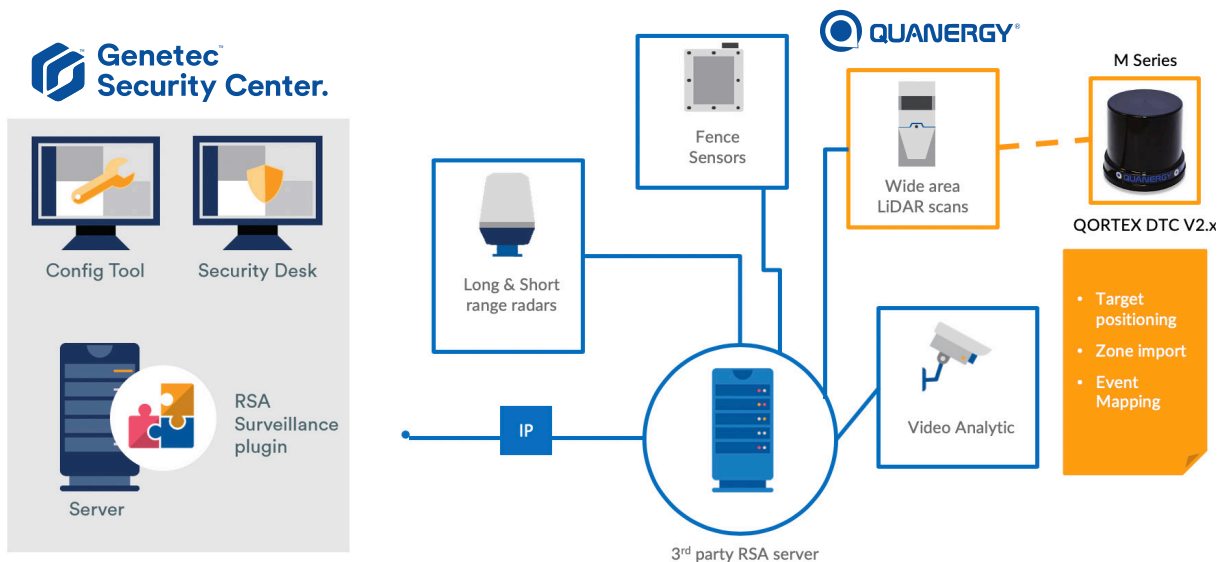
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An Integrated Security Solution

Quanergy's 3D LiDAR and AI-powered perception software are integrated with the Genetec Security Center and RSA Surveillance Add-on to provide an ultra-reliable, unified solution for restricted security areas (RSA). The fully integrated solution significantly reduces false alarms and allows users to easily manage their entire security system from one application—all while protecting individual privacy.

The Restricted Security Area (RSA) Surveillance solution from Genetec is integrated with Quanergy's QORTEX solution to reliably detect intrusions within an area or a perimeter. Quanergy's LiDAR sensors collect and send the raw data to the QORTEX Flow Management Platform, which provides detailed object and zone information to RSA. Users can easily access event information and insights via dashboards in the Genetec Security Center.

Genetec Security Center.

Config Tool   Security Desk

RSA Surveillance plugin

Server

Fence Sensors

Long & Short range radars

IP

3rd party RSA server

QUANERGY

M Series

Wide area LiDAR scans

QORTEX DTC V2.x

Video Analytic

- Target positioning
- Zone import
- Event Mapping

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Key Customer Benefits

The integrated security solution from Quanergy and Genetec delivers many cost- and time-saving benefits, including:

High Accuracy and Fewer False Alarms

3D LiDAR provides 95%+ detection accuracy and 24/7 reliability in all lighting and atmospheric conditions. Paired with the intelligence of the RSA security platform, the accuracy and reliability of a LiDAR-based solution significantly reduces false alarms, ultimately saving time and costs. With broader coverage and a unified system, higher levels of security can be achieved with fewer personnel. In addition, a lower rate of false alarms provides personnel with confidence in the reliability of the alerts, improving the quality and promptness of their responses.

Seamless Scalability

The Genetec Security Platform brings together traditionally standalone intrusion detection systems under one visualization pane, enhancing overall security and operations, providing operators with greater command and control. This provides a truly unified solution that is intended to work together, enabling greater productivity and efficiency. The platform allows users to scale security coverage, no matter the size of the protected area, to identify normal or suspicious activity.

Geo-Location Capability

Integrating Quanergy's LiDAR with PTZ cameras and Security Center RSA from Genetec provides the capability to use positional data from sensors to control multiple cameras simultaneously and accurately identify and track moving objects in areas of interest. The location data is used to intelligently select which camera to follow the intrusion and then automatically handover to the next camera to maintain the best view of the target. All sensors and video footage are managed under one unified platform with a single visualization pane. The ability to clearly visualize moving targets on dynamic maps allows security personnel to take corrective action quickly.

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Product Ordering

Genetec™

PRODUCT CODE	ITEM
GSC-GAP-RSA-BASE	**Restricted Security Area Surveillance Base Package** Only available with Pro or Enterprise packages (Synergis™ and/or Onmicast™).
GSC-PM-GAP-RSA	**Restricted Security Area Surveillance Standard Package** Enable surveillance with map view. Only available with Professional or Enterprise packages (Synergis™ and/or Omnicast™). Mandatory Restricted Security Area Surveillance Base Package, Plan Manager Standard.
GSC-GAP-RSA-1LAS	**1 Laser Device Connection** *(for Restricted Security Area Surveillance)* Only available with Professional or Enterprise packages (Synergis™ and/or Omnicast™). Mandatory Restricted Security Area Surveillance Base Package.

QUANERGY®

PRODUCT CODE	ITEM
MQ-8-POE-Plus	**MQ-8-POE+Plus Sensor,** *2 Year Warranty*
MQ-8-POE-Ultra	**MQ-8-POE+Ultra Sensor,** *2 Year Warranty*
QRTXDTC-SSR-PREM-PPTL-LIC	**QORTEX DTC™ Premium Sensor License,** *Perpetual*
QRTXDTC-PREM-LIC-1YR	**QORTEX DTC™ Premium Sensor License,** *1 Year*

Applications

- Critical infrastructure
- Airports
- Government buildings
- National monuments
- Sports arenas
- Retail shops

QPN 96-00094