SERVATOR™

Supply Chain Risk Mitigation Solution

Stolen cargo and counterfeit products cost private companies and government organizations hundreds of millions of dollars every year. CACI's Servator is a new response to this problem – a supply chain tamper detection and risk mitigation solution that can be readily integrated into an organization's logistics data warehouse, providing unparalleled cargo monitoring capabilities.

The small, discreet Servator device (just 27 cubic centimeters in volume – slightly larger than a nine-volt battery) can be armed and disarmed by the Servator application from any mobile device. Using cloud-based machine learning analytics, Servator provides unprecedented visibility into cargo in transit by recording, analyzing, and encrypting detailed sensor and tracking information. Servator can assuage concerns such as insurance liability, chain of custody, package content security, and improper handling. Because of its small size and low power demand, Servator also holds great promise for tracking autonomous vehicle-delivered cargo, where tampering, package impacts, temperature, and humidity information is all vital.

A *Fortune* World's Most Admired Company

EXPERTISE AND **TECHNOLOGY** FOR NATIONAL SECURITY

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For more information about our solutions, products, and services, visit: **www.caci.com**

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Key Features

- 45x34x18 mm Servator device with integrated sensors measure light, motion, pressure, temperature, and humidity

- Magnetometer, accelerometer, and gyroscope (9-axis inertial measurement unit)

- Onboard microphone and 720P camera

- 32-bit ARM CPU with onboard flash memory and real-time clock

- Accurate date and time logging of all events

- Internal audio recording and photos of triggering events

- Features USB, BLE, and NFC interfaces

- Access to all logged data, pictures, and audio via USB and cloud

Benefits

- Leverages CACI's record of reliability in anti-tampering capabilities and our exclusive patents

- Servator is small, long life, rechargeable, cost-effective, and includes cloud-enabled data analytics

- Multi-sensor, multi-interface technology better detects and prevents cargo tampering events

- Servator is an advanced supply chain risk management program that is effective both in-transit and in-storage

How Servator Secures Your Supply Chain

The Servator solution consists of multi-sensor data collection devices, a mobile app, cloud machine learning, and secure data storage. Servator uses advanced software analytics to fuse sensor data and apply heuristic machine-learning algorithms to protect all types of cargo, such as cases, pallets, and trailers. When tampering is detected, Servator collects pictures and records audio for evidence collection. With advanced algorithms fusing numerous sensors, Servator minimizes false alarms, generating improved tamper protection across a range of scenarios.

The mobile app allows users to take pictures of cargo, scan bar codes, and enter serial numbers and other data for shipment preparation. This information goes to the Servator secure cloud and is available to the cargo recipient to ensure contents are not altered in transit. Tracking information is monitored via cloud as well to correlate where detected activity occurs. All detected events and data are then accurately logged and optionally stored in the Servator secure cloud.

The Servator device's extremely low power design allows long-duration use between recharging. Servator can serve as both an "end to end solution" and can be readily integrated into other supply chain management systems.
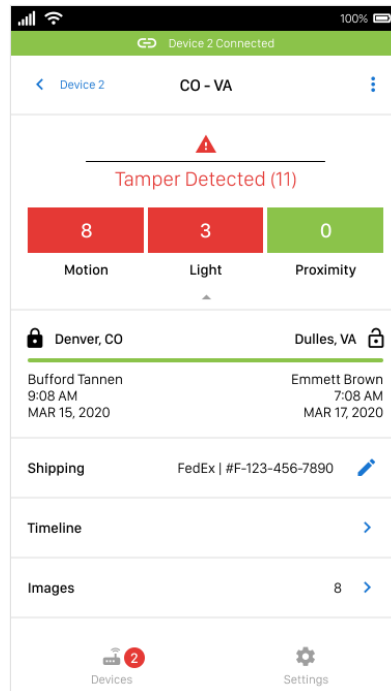
Tamper Detection
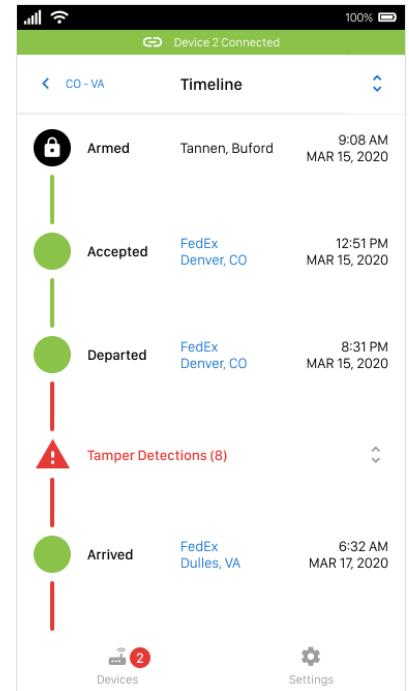
Tamper Detection Timeline

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CACI's approximately 23,000 talented employees are vigilant in providing the unique expertise and distinctive technology that address our customers' greatest enterprise and mission challenges. Our culture of good character, innovation, and excellence drives our success and earns us recognition as a _Fortune_ World's Most Admired Company. As a member of the _Fortune_ 1000 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index, we consistently deliver strong shareholder value. Visit us at www.caci.com.

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