



INDUSTRY SOLUTION

Advanced Data Protection
and High-Speed Sharing
in Hazardous Areas



INDUSTRY

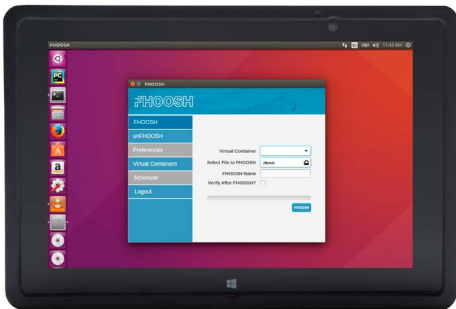
OIL & GAS
 MINING
 TEXTILE & AGRICULTURE
 CONSTRUCTION

KEY BENEFITS

The Aegex + FHOOSH solution can help any hazardous industry operation to:

- Improve efficiency
- Increase productivity
- Reduce costs
- Enhance security

View a [video](#) of the Aegex + FHOOSH solution.



AEGEX + FHOOSH:
The Safest, Most
Secure Solution for
Data Sharing in
Hazardous Industries

THE SITUATION

An oil & gas multinational wants to further its digital transformation by bringing new technologies into all areas of its facilities to capture, transmit and analyze data in real time to improve efficiencies. However, most of the facilities are classified as UL Class I Division 1 (CID1) hazardous areas where combustible atmospheres permit only specially certified electronic equipment. All zones of the facilities are potentially combustible in the case of a leak or spill. To view a more complete picture of processes in its highly regulated facilities, the company wishes to collect operations, maintenance, workflow, personal health and other data, but it is concerned about the security of sharing that sensitive data, as cyber criminals and foreign governments pose a real cybersecurity threat.

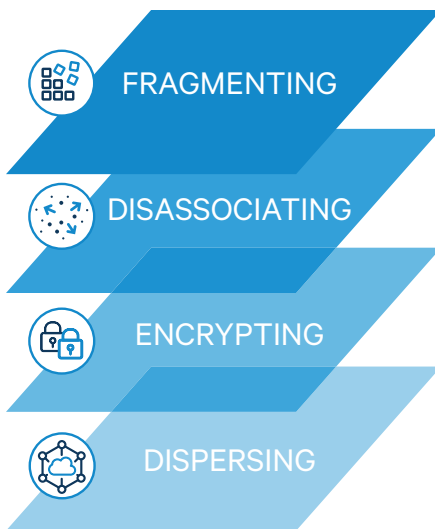
THE SOLUTION *Hardware – Aegex10 IS Tablet*

Deploying Windows-based [Aegex10 IS Tablets](#) to operators throughout the facilities allows them to record all types of data onsite, even in CID1 areas, as the tablets are globally certified “intrinsically safe,” meaning they do not pose a threat of spark ignition in highly volatile atmospheres.

The Aegex10 operates on Wi-Fi or 4G LTE from any hazardous location around the globe on a unified platform, so the organization can deploy them worldwide. Because they operate Windows 10, the tablets synchronize seamlessly with the company’s internal IT systems, offering ease of use for global operations.

The lightweight, rugged (IP65) and low-cost tablets are user-friendly and allow operators to access [Windows 10 apps](#), cloud services and third party apps approved by their organization from any location. Users can communicate in real time with email, VoIP and video on the tablets. With Aegex, the company can quickly and easily begin to capture critical information from the most hazardous areas of its facilities. Maintenance issues can be addressed in real time, for example, with a technician able to communicate via Skype or send photos and video from the source of the problem without risk to safety. Inspectors can complete forms or consult manuals instantaneously onsite using the tablet. Operators can access proprietary applications via the tablet for real-time asset management, data analysis and more.

FHOOSH captures, transmits, stores and archives data in an always-protected state, eliminating any vulnerabilities that could occur during encryption or decryption.



A myriad of processes can be more efficiently completed and managed with the Aegex tablets onsite in hazardous areas of the organization's facilities or field service locations.

But how can the company most safely share its highly sensitive data? Aegex software partner FHOOSH™ can provide support.

THE SOLUTION *Software – FHOOSH High-Speed Cybersecurity*

With operators collecting real-time data and sharing it within the organization and possibly externally, the organization must be able to fully protect that data from the point at which it is created until it is delivered so it is never exposed to cybercrime.

[FHOOSH High-Speed Cybersecurity](#) protects data from the point of capture, dramatically speeds data transfer and provides “always-on” compliance for highly sensitive data.

FHOOSH captures, transmits, stores and archives data in an always-protected state, eliminating any vulnerabilities that could occur during encryption or decryption. Since the data is never in an unencrypted state, moving that data through a network does not increase the scope for compliance or audit activities. This “always-on” compliance process is easier and less expensive, and FHOOSH-protected backups make archiving quicker and more secure.

FHOOSH also dramatically improves the speed at which data is transported from its capture to either local or cloud-based data centers where it is archived, [achieving up to 8 times improvements in speed](#) over simply copying unencrypted data. These performance gains enable FHOOSH to deliver the fastest low-latency AES256-bit secure video live streaming from IoT and other devices. FHOOSH also alerts about inappropriate attempts to access protected data and ensures data remains safe from unauthorized access even during breaches. This smart data protection is delivered as a software solution on Windows, Linux and multiple single-board IoT devices, providing end-to-end coverage; it is available soon on Mac and mobile.

OCR 2017

Aegex and FHOOSH both participated in [Operation Convergent Response 2017](#), a unique event hosted by [Verizon](#), [Nokia](#) and Aegex at the [Guardian Centers in Perry, Georgia](#), that brought together first responders and innovators to test various technologies in realistic disaster scenarios. To succeed under the harsh circumstances recreated during OCR 2017, or experienced by those who are called to help when disaster strikes, technology solutions need to be secure by default, ultra-fast, simple to use, lightweight, extremely flexible and highly reliable.



Solutions from Aegex and FHOOSH exceed those requirements for successful, secure use in the field, and highlight the capabilities of multiple edge technologies working together in extreme environments to collaboratively improve emergency response.

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THE RESULTS

Aegex + FHOOSH: The Safest, Most Secure Solution for Data Sharing in Hazardous Industries

Using FHOOSH on Aegex10 Intrinsically Safe Tablets would allow the oil & gas company to securely and rapidly share sensitive data directly from its point of capture.

The Aegex + FHOOSH solution is a comprehensive offering that works across major platforms (cloud, on-premises/physical network and IoT) and provides faster and better data protection. The easy-to-implement, cost-effective pairing works with both legacy and new technologies to collect and manage data in any hazardous environment and securely move all types and sizes of critical data, including large data stores, to the cloud of choice more efficiently and quickly.

The end-to-end solution results in:

- Secure, real-time data management and communications for the most hazardous industrial operations
- Superior data protection paired with measurably faster sharing capabilities
- Greater confidence that data stored in public clouds is secure, helping to speed public cloud migration initiatives
- Dramatically faster protected data transmission speeds that enable secure real-time live streaming
- "Always-on" compliance to meet standards requirements
- Data that remains safe even when systems are breached
- Better system performance, especially when networks and necessary infrastructure are limited

For more information, contact Aegex or FHOOSH.

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