

FORTRA



CASE STUDY (Globalscape)

Globalscape EFT™ Protects Formulas for Oil and Gas Refinery

Streamline Business Processes with Advanced Automation

Overview

A large oil and gas refinery in North America provides diesel and gasoline to retail outlets. Like many electric utilities, pumping stations, and refiners, they use the Purdue Enterprise Reference Architecture (PERA) model to allow end users, integrators, and vendors to share integrated applications at various levels of the enterprise.

Challenge

The levels included physical processes; intelligent devices such as sensors and actuators; control systems such as real-time monitoring (includes supervisory and data acquisition [SCADA] software); manufacturing operation systems such as batch management, manufacturing execution/operations management systems (MES/MOMS); business logistics systems such as enterprise reference architecture (ERP), material use, inventory, and so on. The company needed to share their refining data across each of these levels, while verifying file integrity at each level. If the data were compromised at any stage, the effects of that compromise would reverberate across their industry.

The project requirements included an automated process with no user interaction, PGP encryption/decryption and PGP signature verification to ensure the file has not been modified between the source and the destination, and notifications if a change in the data was detected.

The company required that if malware is detected, the process will stop, quarantine, and notify. Additionally, security must be permissions based.

KEY DETAILS

INDUSTRY

- Oil & Gas

OUTCOME



Streamline business processes with advanced automation capabilities that reduce or prevent mutual data manipulation



OpenPGP encrypt, decrypt, and sign provides security and file transfer integrity



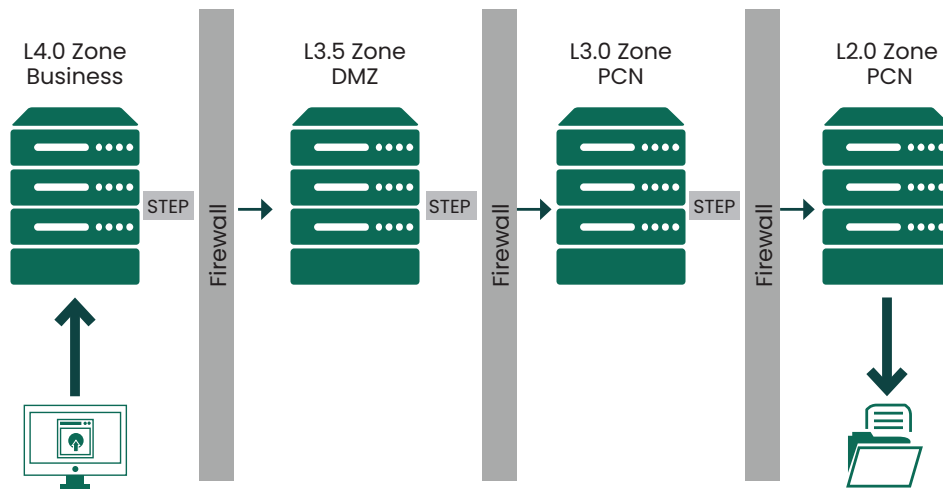
Maintain confidentiality and keep your network free of files containing malware and of company confidential information

APPLICATION

- Secure data transfer
- Complex file transfer automation
- Operations management & logistics
- Control systems monitoring

PRODUCTS

- EFT Enterprise
- Remote Agent Module
- OpenPGP Encryption
- Auditing and Reporting Module
- Advanced Security Module



Solution

Globalscape helped configure the necessary infrastructure on one Hyper-V server with one EFT Enterprise, OpenPGP module, and the Advanced Security module at each segmented level of the enterprise. The data was passed from one level to the next being scanned for malware, signed, encrypted, transferred to the next level, decrypted, scanned, and so on to ensure file integrity at each level. The Auditing and Reporting module for EFT provided detailed tracking of the file transfers, and notifications were sent of successful transfer.

Through EFT Enterprise and its advanced system of automation, the company gained a fully integrated managed

file transfer solution with automated processing that secures data and reduces manual errors. The system provides PGP encryption/decryption at multiple levels of transfer as well as malware scanning with quarantine and notification.

The company no longer needs manual business processes for sending their proprietary formulas. Through EFT Enterprise, they now have a fast, reliable and secure automated file transfer function to ensure data is protected. Since the company started using EFT Enterprise in their production environment, they have expressed their continued confidence in Globalscape.

Pain Points	Globalscape Solution
Multiple network levels transmit confidential data files	EFT protects each level of the process with no human intervention required.
Manual processes without defined permissions	EFT transmits the file automatically, and manages and connections at each level, which provides security and eliminates the need for manual work.
Frequent data errors and malware problems	EFT scans for malware and then PGP encrypts and signs the file, then decrypts at the next level before scanning again for malware.
No insight into success/failure of transfers	EFT automatically sends notifications to designated email addresses of scanning results and upon success/failure of the transfer. The Auditing and Reporting module automatically generates and sends periodic reports of transfers, user/admin access, and other activities.



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About Fortra

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