

FINANCIAL SERVICES

SAFEGUARD FINANCIAL ASSETS AND CUSTOMER PRIVACY

WITH ST ENGINEERING DATA DIODE

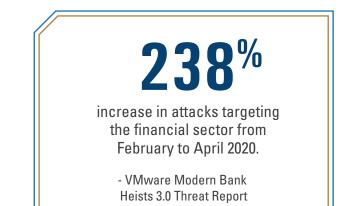


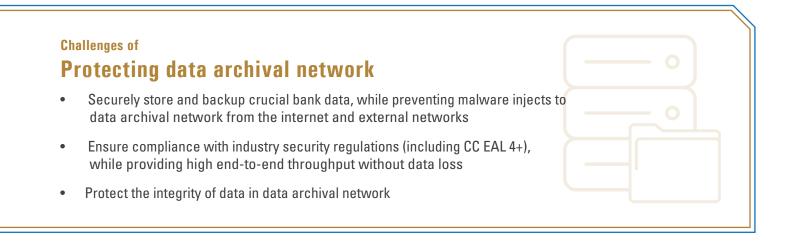
As a repository of extremely valuable data including personal and corporate information, bank account and credit card numbers, financial organisations are one of the most heavily targeted sectors by cyber criminals. In addition to the higher frequency of cyber-attacks, financial institutions are facing more aggressive enforcement, higher fines and regulatory costs, and growing third party liability.

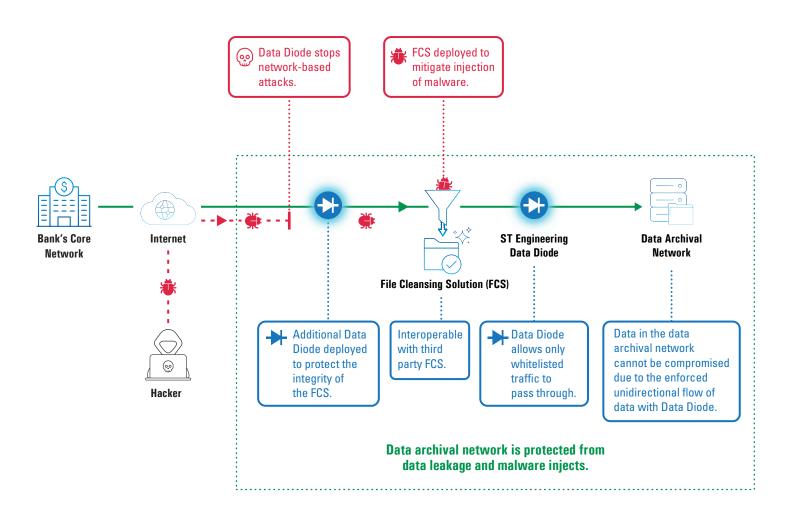


fine paid by Capital One for the 2019 data breach that exposed the personal information of more than 106m customers and credit card applicants.

- Financial Times







ST Engineering Data Diode enables **mitigation against malware injects to data archival network** via Secure Files Cleansing Solution, while preventing unauthorised access to data archival networks to ensure data integrity.







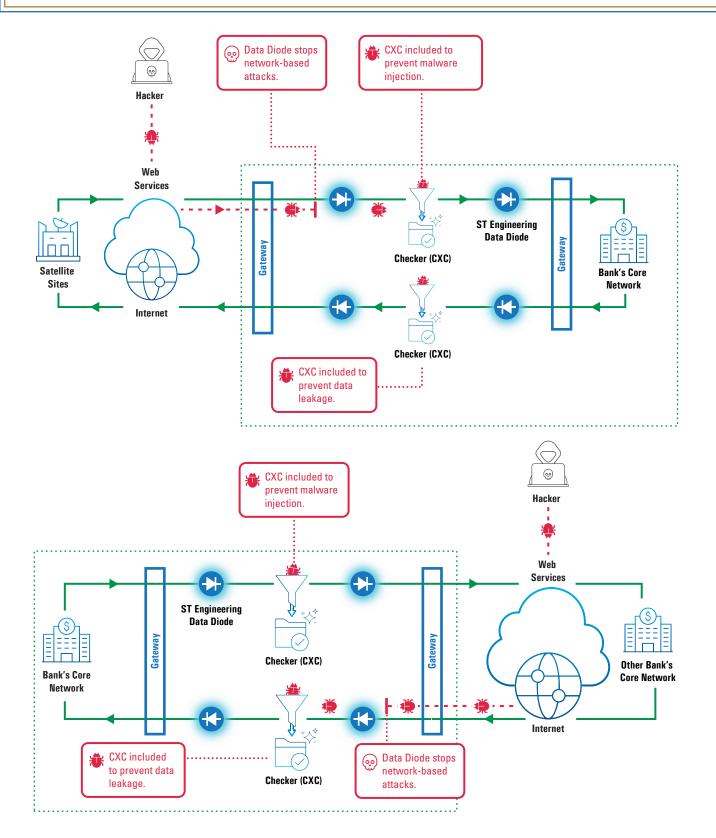
Prevents network-based cyber-attacks to data archival networks from the internet and external networks.

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Minimal downtime requirements through high-availability (failover) configuration.

Challenges of **Protecting bank's core network**

- Allow access to bank's core network over the internet, while preventing bank's core network from cyber-attacks
- Ensure compliance with government security regulations (including CC EAL 4+), while providing high end-to-end throughput without data loss



ST Engineering Secure e-Application Gateway enables real-time **bi-directional HTTP(S)** web services transactions over the internet while protecting the bank's core network from malicious injects and data leakage through Secure e-Application Gateway.



Mitigates against application layer attack via application layer payload checker (CXC)



Mitigates against network layer attack via ST Engineering Data Diode



100% checks on all inbound and outbound traffic.

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Minimal downtime requirements through high-availability (failover) configuration.

About ST Engineering Data Diode



- Up to 20Gbps Unidirectional Media Transfer Rate
- High Throughput Files Transfer (More than 5TB of files per day)
- **Zero-Loss*** Files Transfer (*No more than 1 File lost in 5 Million Files Transfer)
- Files Lost Detection capability for ease of operation & maintenance
- Integrated Management Portal for ease of deployment, operation & maintenance
- Configurable for **High Availability** (without additional hardware/software)
- Low Total Cost of Ownership (ease of deployment, operation & maintenance; no dependencies on external proxies, no need for regular updates and patches)

ABOUT ST ENGINEERING INFO-SECURITY

An industry leader in cybersecurity with over two decades of experience, our mission is to deliver a holistic suite of trusted cybersecurity solutions to help government and ministries, critical infrastructures and commercial enterprises stay cyber safe in the accelerated digital economy.

Backed by indigenous capabilities and deep domain expertise, we offer world-class cybersecurity products and solutions spanning from cryptography, cross-domain solutions to industrial control systems (ICS) cybersecurity solutions. To sustain a robust cyber-resilient ecosystem in the areas of People Process and Technology, we help our clients increase their cybersecurity preparedness with our managed security services and cybersecurity professional services including consultancy, vulnerability assessment, penetration testing, risk and compliance services.

Learn more at:



CONTACT US:

Email: cybersecurity@stengg.com

LinkedIn: linkedin.com/st-engineering-cybersecurity

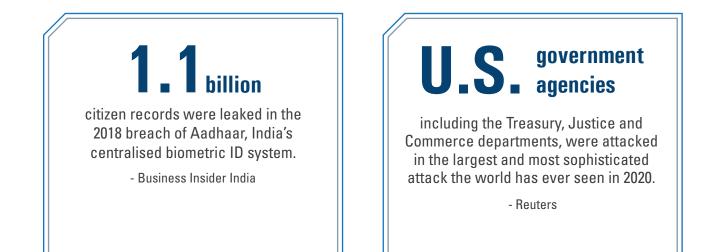


GOVERNMENT & PUBLIC SECURITY

PROTECT GOVERNMENT SERVICES AND PUBLIC TRUST WITH ST ENGINEERING DATA DIODE

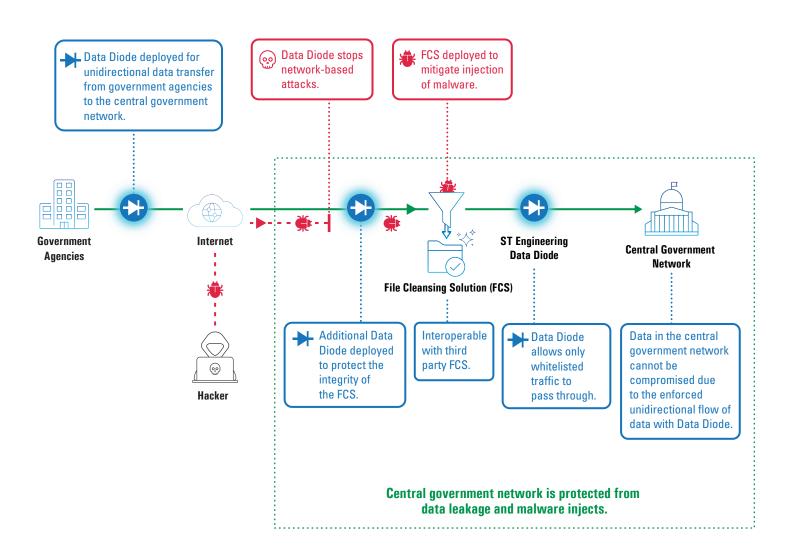
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Cyber-attacks on government agencies can obstruct essential services, disrupt the lives of citizens, destroy public trust and jeopardise national security. As recent cyber-attacks show, hackers highly value government data and are well skilled and extremely motivated for their mission.



Challenges of Protecting central government network

- Securely send and receive data across the internet, while preventing the central government systems against malware injects and network-based cyber-attacks from the internet and external networks
- Ensure compliance with government security regulations (including CC EAL 4+), while providing high end-to-end throughput without data loss



ST Engineering Data Diode enables **mitigation against malware injects to central government** via Secure Files Cleansing Solution, while preventing data leakage from central government.



Creates network separation between government agencies and central government.

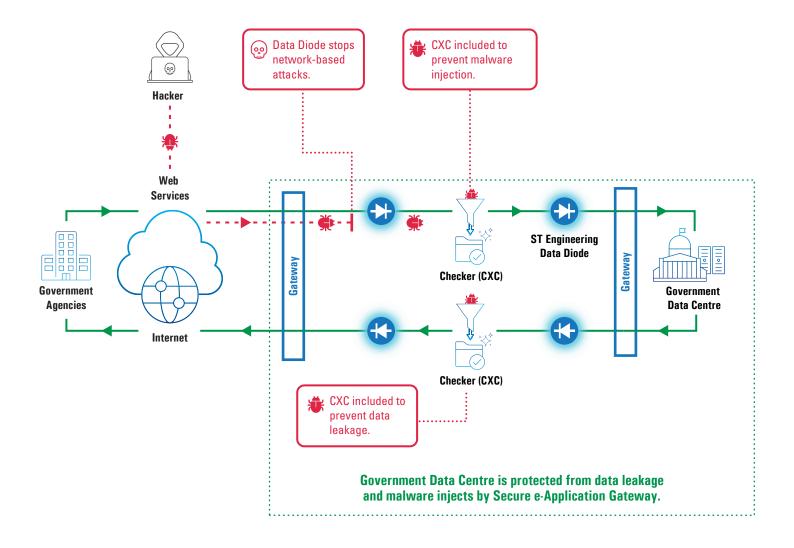


Scalable throughput for extremely high data transfer requirement (more than 500 Mbps).



Minimal downtime requirements through high-availability (failover) configuration.

Challenges of Protecting government data centre Allow access to government data centre over the internet, while preventing government data centre from cyber-attacks Ensure compliance with government security regulations (including CC EAL 4+), while providing high end-to-end throughput without data loss



ST Engineering Data Diode enables real-time **bi-directional HTTP(S)** web services transactions over the **internet** while protecting the government data centre from malicious injects and data leakage through Secure e-Application Gateway.



Mitigates against application layer attack via application layer payload checker (CXC)



Mitigates against network layer attack via ST Engineering Data Diode



100% checks on all inbound and outbound traffic.



Minimal downtime requirements through high-availability (failover) configuration.



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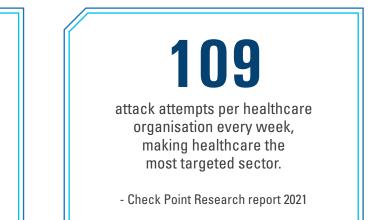
SAFEGUARD PATIENT LIVES AND DATA WITH ST ENGINEERING DATA DIODE



Healthcare is the most heavily targeted sector for cyber-attacks. The broad attack surfaces, legacy system limitations and weak security posture leave healthcare providers highly vulnerable to financially motivated cyber criminals. With the confidentiality, integrity, and availability of patient data, medical devices and healthcare ecosystems at stake, cybersecurity is absolutely critical to healthcare organisations.

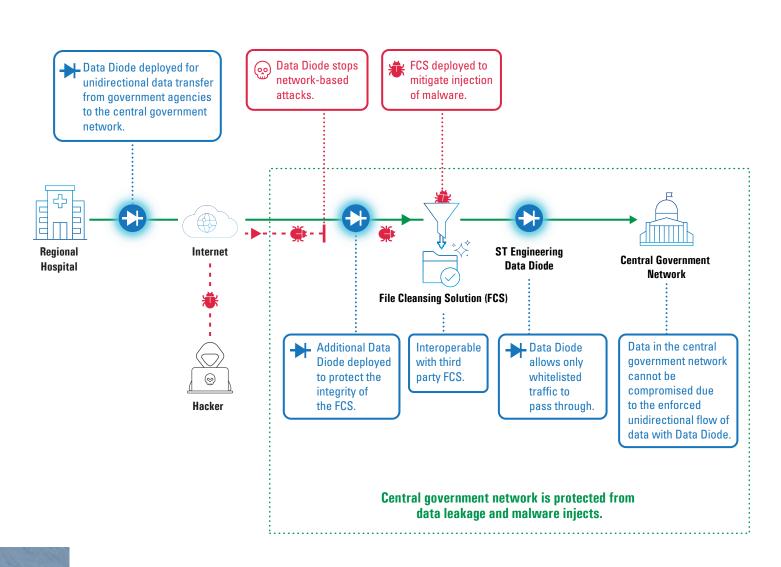
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more valuable on the black market than financial information, personal health information is the reason why the healthcare sector is a prime target for cyberattacks.



HEALTHCARE

- Forbes



ST Engineering Data Diode enables **mitigation against malware injects to central government network** via Secure Files Cleansing Solution, while preventing data leakage from central government.



Challenges of

Protecting central government network

while providing high end-to-end throughput without data loss

Securely store and receive hospitals' data records, while preventing malware injects to central government network from the internet and external network

Ensure compliance with industry security regulations (including CC EAL 4+),

Creates network separation between central government and regional hospitals network.



Prevents network-based cyber-attacks to central government networks from the internet and external networks.

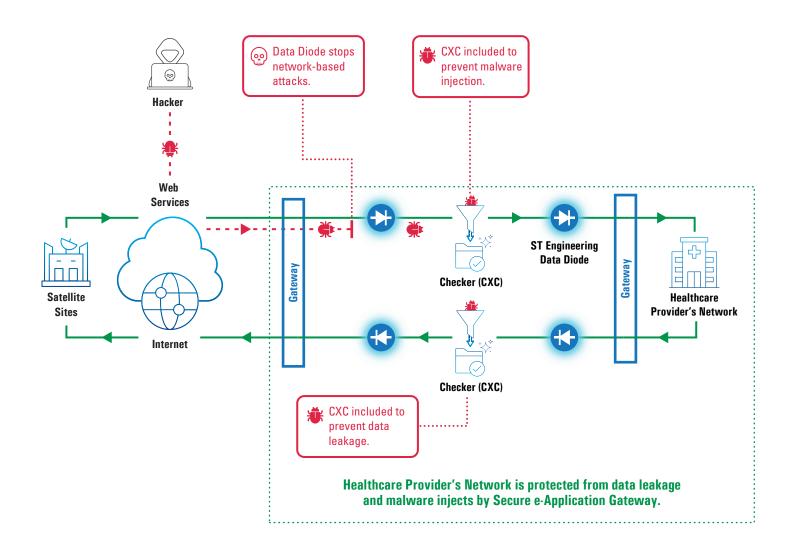


Minimal downtime requirements through high-availability (failover) configuration.



Challenges of Protecting healthcare provider's network

- Allow access to healthcare provider's network over the internet, while preventing healthcare provider's network from cyber-attacks
- Ensure compliance with government security regulations (including CC EAL 4+), while providing high end-to-end throughput without data loss



ST Engineering Data Diode enables real-time **bi-directional HTTP(S)** web services transactions over the internet while protecting the healthcare provider's network from malicious injects and data leakage through Secure e-Application Gateway.



Mitigates against application layer attack via application layer payload checker (CXC)



Mitigates against network layer attack via ST Engineering Data Diode



100% checks on all inbound and outbound traffic.

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Minimal downtime requirements through high-availability (failover) configuration.



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PROVIDE INDUSTRIAL-STRENGTH CYBERSECURITY

WITH ST ENGINEERING DATA DIODE



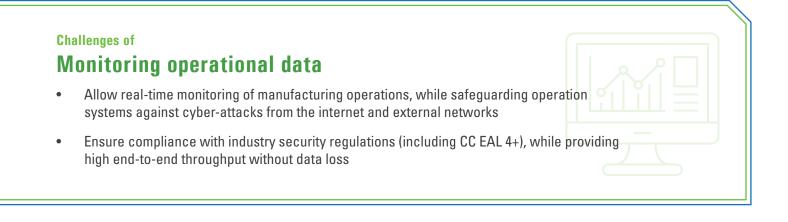
Cyber-attacks on manufacturing plants can disrupt and even halt production, causing damage to company reputation, share price and consumer confidence. Theft of intellectual property is common in cyber-attacks which can lead to loss of market share and the company's eventual demise. As latest reports show, the cost of cyber-attacks is high and the frequency is increasing.

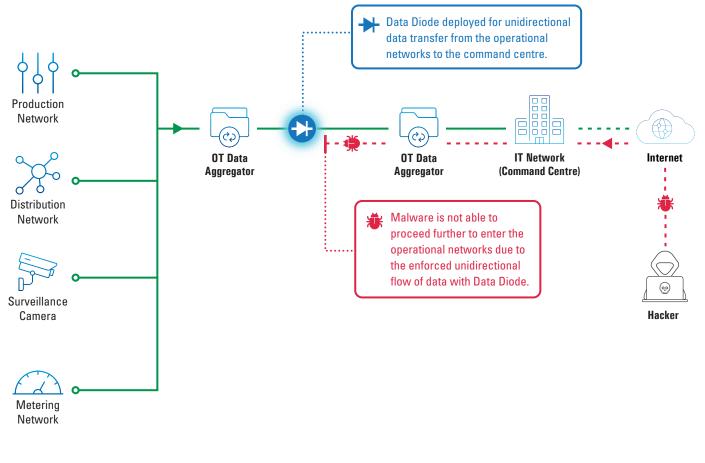


paid by the manufacturing sector to cyber criminals in 2019, representing 62% of total ransomware payments.

- Kivu Consulting 2019 Paid Ransomware Report







OT/IT Networks

Operational network is protected from network-based attacks.

ST Engineering Data Diode enables the **unidirectional transfer of operational data from the operational network to the enterprise network**, while preventing network based attacks to the operational networks.



Creates network separation between key operational systems and enterprise network or the internet.



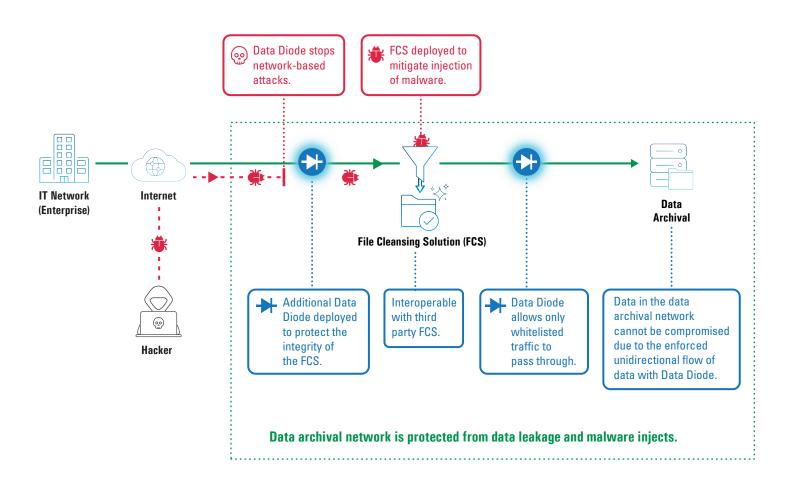
Minimal downtime requirements through high-availability (failover) configuration.



Allows real-time monitoring of all operational systems.

Challenges of Protecting data archival networks

- Secure backup and storage of data, while preventing malware infection of data archival network from the internet and external IT networks
- Protect integrity of files in data archival network
- Ensure compliance with industry security regulations (including CC EAL 4+), while providing high end-to-end throughput without data loss



ST Engineering Data Diode enables the **unidirectional transfer of files to data archival networks**, while preventing data leakage and theft.





Creates network separation between enterprise network (internet facing) and data archival network. ST Engineering Data Diode ensures only whitelisted traffic is allowed to pass through, protecting organisations from data breaches and malicious threats in the manufacturing plants. Files Cleansing Solution can be further integrated to ensure only malware-free files enter data archival network.



Minimal downtime requirements through high-availability (failover) configuration.



100% prevention of any data leakage.





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SAFEGUARD THE CYBERSECURITY OF INFRASTRUCTURE

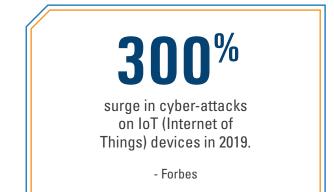
WITH ST ENGINEERING DATA DIODE

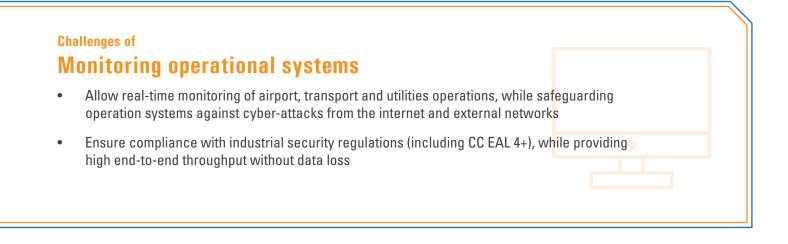


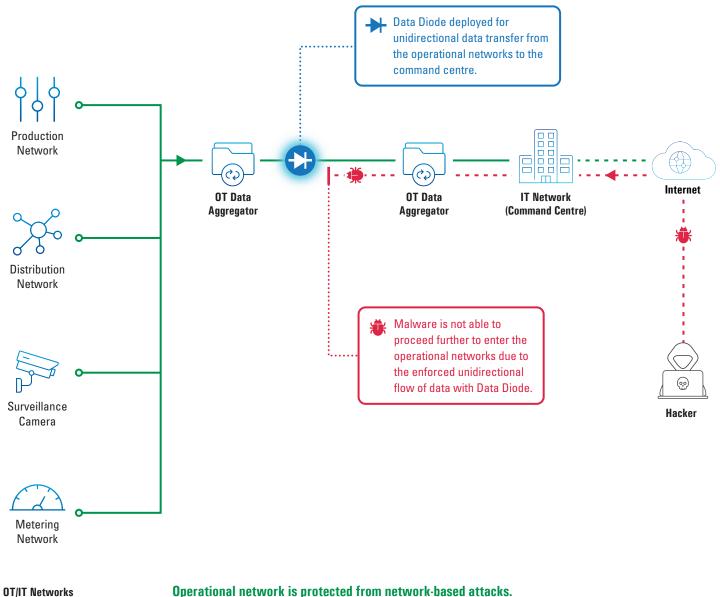
Cyber-attacks on critical infrastructures including aviation, rail transport, water and power plants can have disastrous consequences. If cyber criminals gain access and control over the operational systems of these infrastructures, they can cause major disruptions to daily essential operations, injuries or even loss of lives and shatter the trust of citizens.



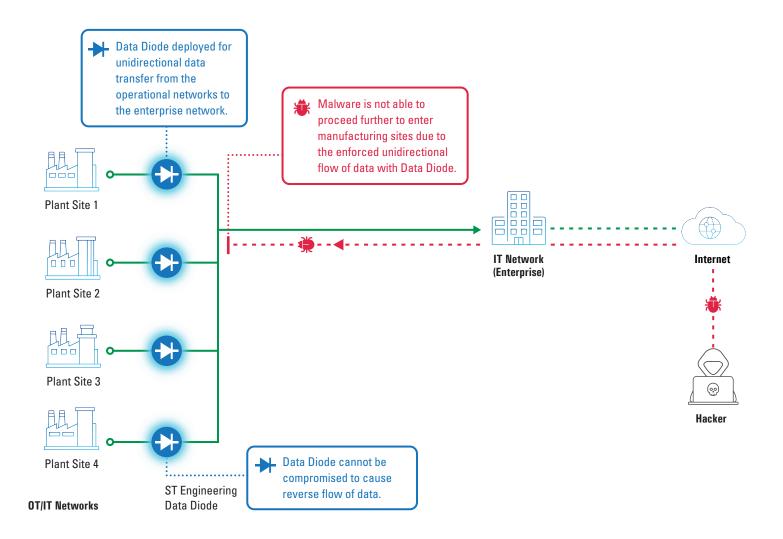
- Check Point Research report











ST Engineering Data Diode enables real-time, **non-intrusive monitoring of airport, transport and utilities operational systems via unidirectional files transfer or OT data replication** while preventing network based cyber-attacks to the key operational systems.



Creates network separation between key operational systems and enterprise network or the internet.



Minimal downtime requirements through high-availability (failover) configuration.



Allows real-time monitoring of all operational systems.



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