



Kale Logistics

Technology that Transforms

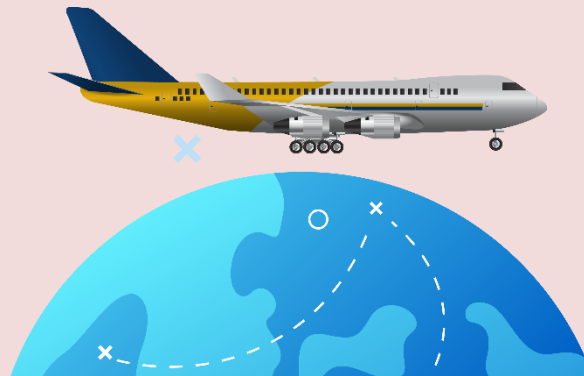


Practical Measures for Air Cargo Security in MID and Beyond



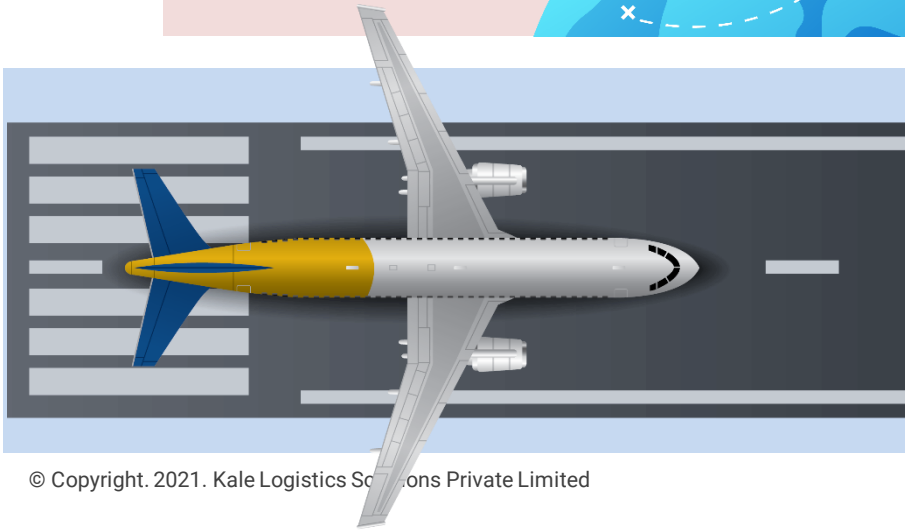
Now

- Cargo information (PLACI) shared before the aircraft takes off from the origin
- Harmonized and standardized procedures for advance cargo information



Post 9/11

Cargo information shared before the aircraft lands at destination



Last century

Cargo information shared after the aircraft lands at destination

Air Cargo Digitization





Other Key Air Cargo Security Initiatives shaping digitization



Authorised Economic Operator (AEO,) –
Under the aegis of WCO (SAFE Framework), AEO promotes Customs-to-Business partnerships. Compliance with supply chain security standards.



e-CSD – This provides regulators with an electronic audit trail of how, when and by whom cargo has been secured along the supply chain. Warrants only secured cargo is shipped.



Advance Shipment Information (ASI) -
This advance information ahead of the arrival of goods, aids processing and clearance of cargo. Mitigates security risks prior to loading or arrival.



Most Air Cargo stakeholders are unaware of the breach until the hackers have been inside of their system for six to nine months

A shipment can often involve data or intellectual property transfer between up to 10 separate parties across the globe.



Communications and data nodes in Air Cargo, projected to generate 98 million terabytes of data by 2026

The loss of confidential information could give rise to data protection issues and breach of privacy laws, leaving airlines and airports with heavy fines, government audits and even criminal liability.



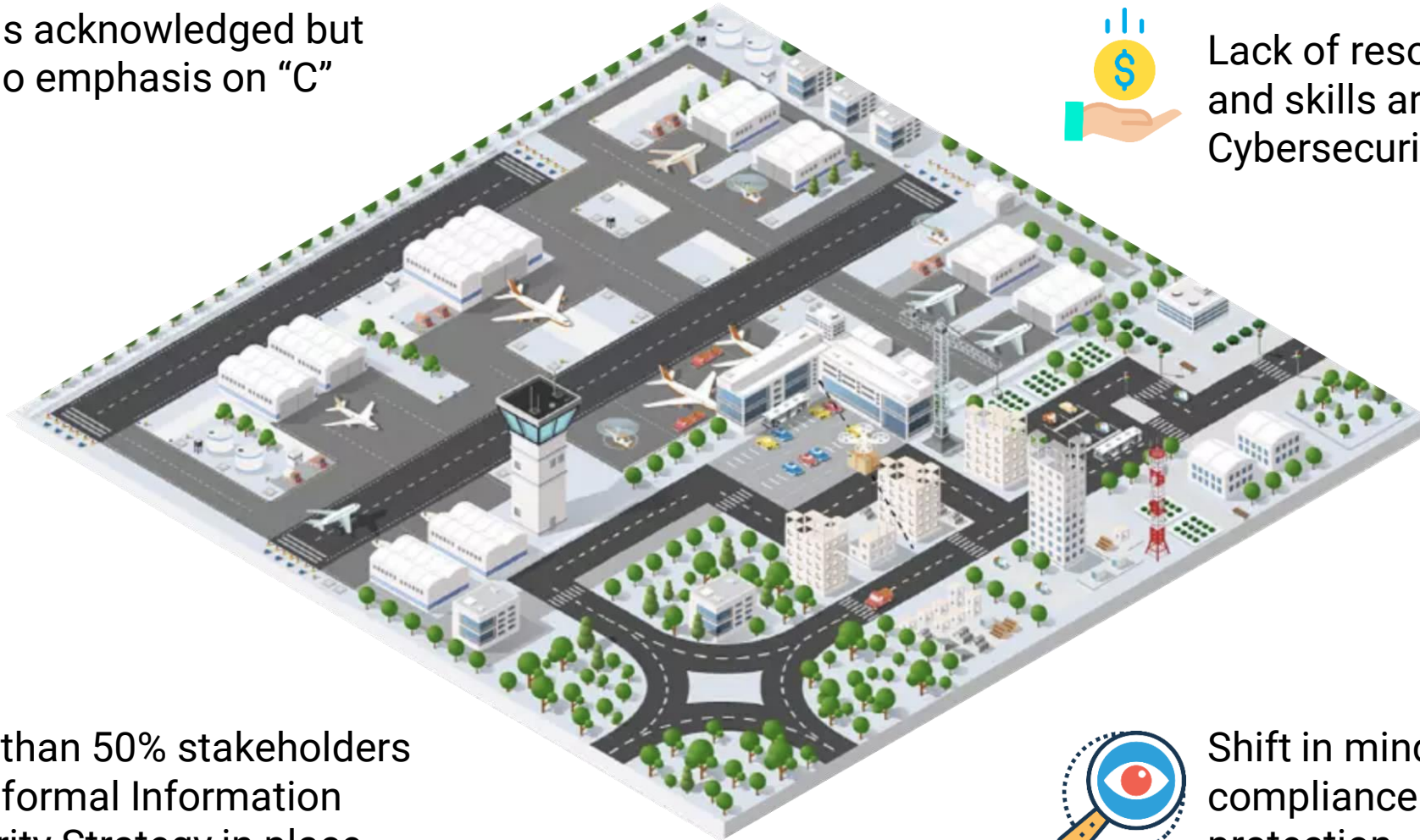
Findings of SITA Survey on Cybersecurity



Risk is acknowledged but still no emphasis on “C” level



Lack of resources, budgets and skills are key barriers to Cybersecurity



Less than 50% stakeholders have formal Information Security Strategy in place



Shift in mindset from compliance to proactive protection



Assess – Inventory & audit



Detect and Report – Security Ops Center (SOC)



Respond – Cyber resilience



Learn and Improve



Every shipment requires multiple players



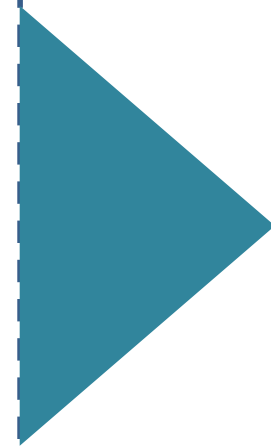
Sensitive data is added by every player in the air cargo supply chain



Larger players have strong internal Cyberattack prevention infrastructure in place. However, in a connected world they are dealing with numerous small players who can cause the chink in the armours



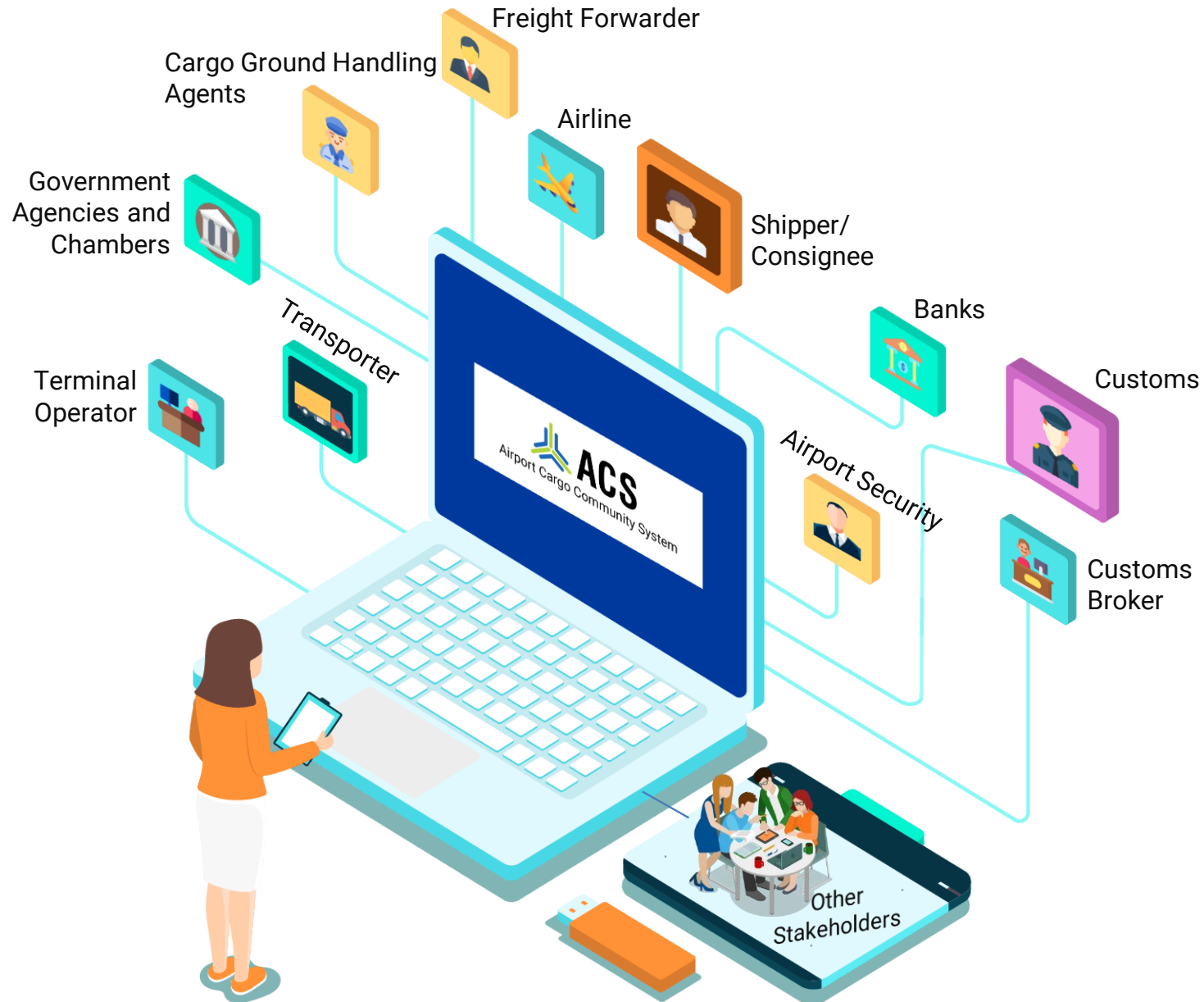
Air Cargo SME have very little capabilities as well as budgets to create impregnable cyber defense infrastructure



This has created need for **collaborative approach for Cyber Security**



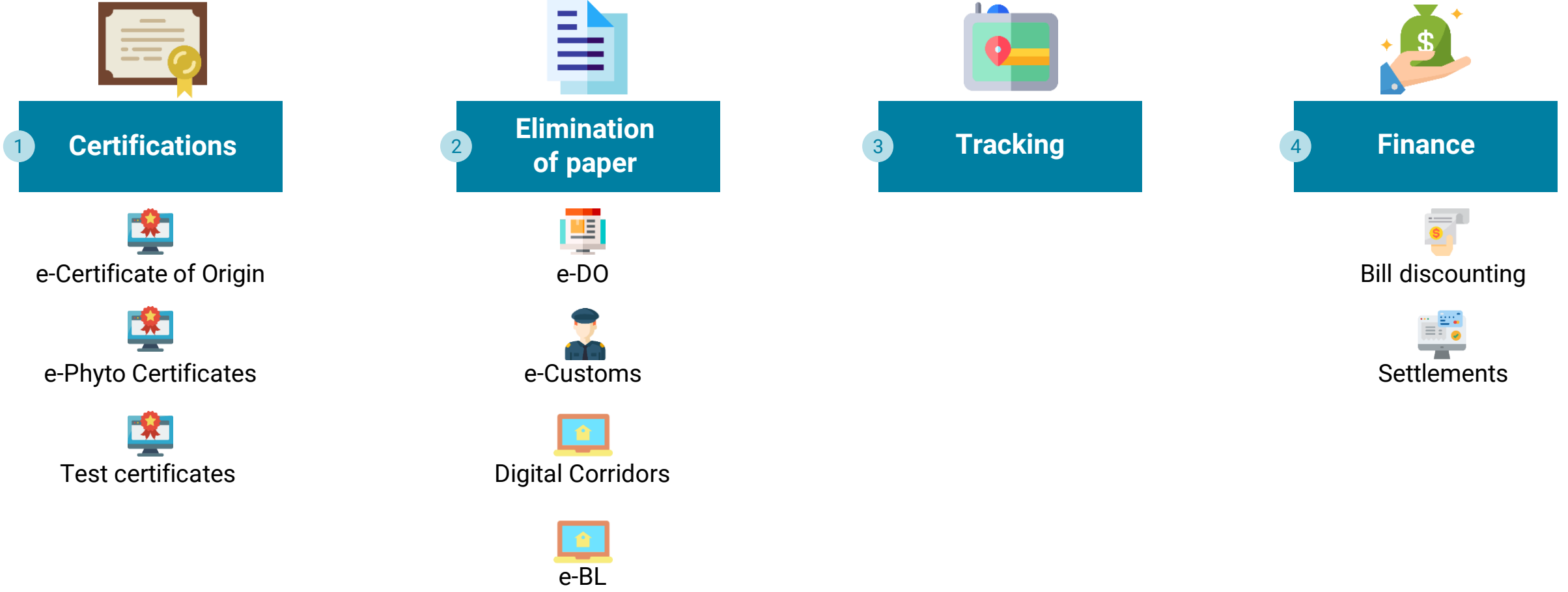
Community platforms can facilitate cyber security needs of SMEs to a large extent



Wherever possible connect to critical stakeholders' systems through single window controls like the community platforms to reduce the risks imposed by individual stakeholder systems



Potential of Blockchain in Air Cargo Information Security



Each stakeholder shall have at least one resource trained on cybersecurity and there should be a program in place to educate the others in the organization

As a first step, every client desktop / laptop should be running with updated operating system patches, anti-virus software always in protected mode and most up-to-date. This will reduce end point vulnerability to larger extent because 90% of the time attacks are initiated from client desktop / laptops which are compromised.

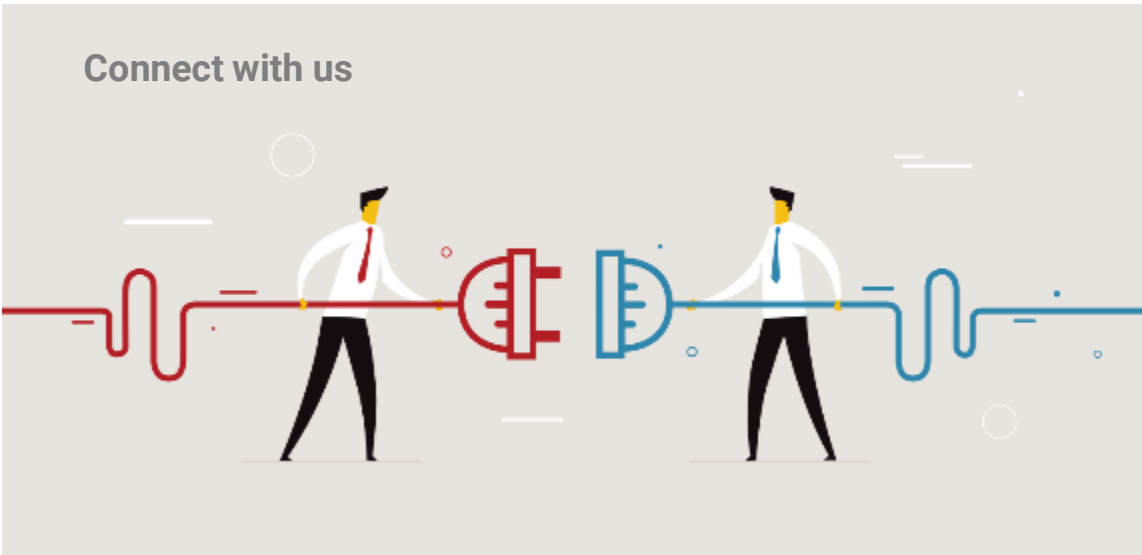
While service providers ensure their platforms are protected and tested for code vulnerabilities periodically and implementing Security Operations Center. Protecting community portals/industry platforms with well sophisticated tools, it is also very important to manage these at the software development (DevOps) stage itself. The framework is also termed as Dev-Sec-Ops, handle security postures at development itself moving potential vulnerable code to production and fixing it later.

There are various tools and practices organizations may follow to reduce the cyber attacks and protect their infrastructure to deliver Secured information to all stakeholders and offer desired / agreed service levels. These are now affordable in Software as a service model (SaaS)

As air cargo industry handles, processes personal information of customer (individual) it is utmost important to establish desired controls related to privacy and frequently arranging cyber security awareness training to their employees, third party providers, assess / review critical processes periodically, this will reduce the likelihood of cyber incidents. And should this occur the employees are well prepared to act and close.


Thank You

Connect with us



Kale Logistics Solutions Private Limited

9th Floor, Thane One Corporate Business Park,
Behind CineWonder Mall, Majiwada,
Thane (W), Maharashtra, INDIA - 400 610.

 +91 22 4113 4113

 +91 22 4113 4123

 info@kalelogistics.com

 www.kalelogistics.com



India | UAE | Mauritius | Kenya | Netherlands | USA | Canada

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