



Managing & Protecting Digitalized Air Cargo Services from Cyber Attacks in the United Arab Emirates (UAE)





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UAE's Strategy on Digitalization



- The UAE Government adopted a Strategy on digitalization in 2010;
 - For readiness.
 - To face potential crisis and emergency situations (such as the COVID-19 or any other Pandemic).
- Establishment of a robust electronic digitalized services' infrastructure in the UAE.
- Encourage competitiveness.
- Establish a digitalization culture, to improve efficiency in business processes, public satisfaction, quality of life, happiness and productivity.



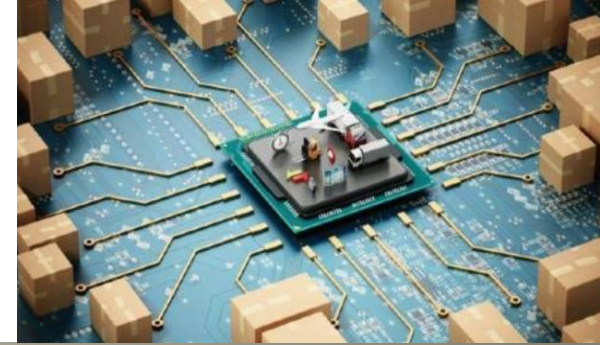
GCAA Strategy on Digitalization of Air Cargo Services



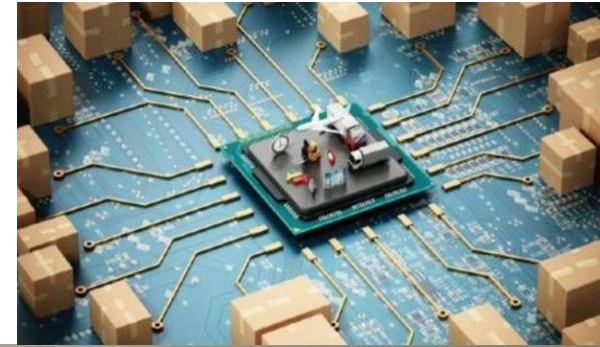
- Reduce the risk of cyber attacks and protect data against the unauthorized exploitation of systems, networks and technologies.
- Established and Implemented digitalization in air cargo and many other civil aviation related services.
- Established digitalization of services other than those related to air cargo.
- Coordinated, monitored as well as encouraged stakeholders to implement digitalization.
- Encourage innovation in digitalization.
- Benchmarking and best practices.



GCAA IT Approach to Protect Digitalized Services from Cyber Attacks



- Change the business model.
- In-house Platform.
- Increase safety and security through processes and controls to protect systems, networks, programs, devices and data from cyber attacks.
- Improve operational efficiency by reducing unnecessary delays.
- Enable better data analysis and information sharing.
- Encourage innovation.
- Independent/stand alone platform for AVSEC.
- Registration control.
- Support integration with other systems – such as “Tarasol” system x Mol.

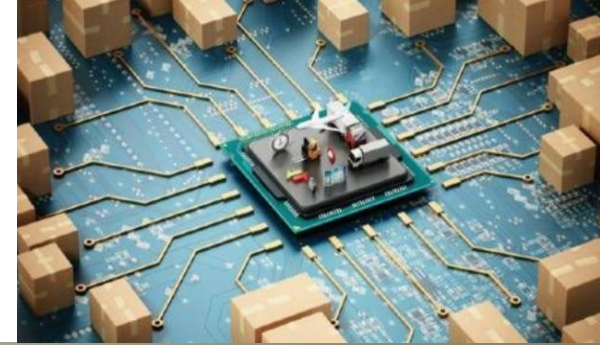


Current GCAA Air Cargo Digitalized Services

- Reporting of Security Breaches (ROSB).
- Reporting of Dangerous Goods Occurrences (RODGO).
- Aviation Security (AVSEC) Web-Board
- Voluntary Reporting of Security Breaches.
- Tarasol Security Clearance System in partnership with the UAE Ministry of Interior (MoI).
- Aerial Photography Approval.
- Dangerous Goods Certification.
- Oversight Self-Assessment.
- National Permit for UAE Airports.



Advantages of Digitalization Noted During the Covid-19 Pandemic



- Enabled efficient air cargo operations.
- Easily aligned with Covid -19 measures issued by the UAE Ministry of Health.
- Enabled stakeholders to continuously monitor and conduct safety and security related data analysis and risk assessment.



UAE GCAA Cyber Security Ongoing Activities



- Revised the National Civil Aviation Legislation including Air Cargo (to address cyber security).
- The UAE National Cyber Security Task Force (under processing).
- Drafting the UAE National Cyber Security Strategy (by the Task Force).
- Conduct Frequent Cyber Security Gap Analysis (ICAO Resolution R40).



Future Plan



- Continue to explore and benefit from new technologies.
- Further enhancement of current air cargo related digitalized services.
- Encourage new initiatives through GCAA QAFZAT Program and communication with industry stakeholders.
- Establishment of Air Cargo Services through Mobile Applications.
- Interface/Integration with systems used by other concerned entities.
- Integration of systems (such as ROSB, RODGO, DG Certification system...etc.) at the national level and globally.



Thank you

