

TOWARDS A RESILIENT AVIATION CYBERSPA

AMMAN, JORDAN | 15-17 OCTOBER 2019







Cyber Analytics in Aviation







How many data records are created each month in DXB?

5 Billion (Records)

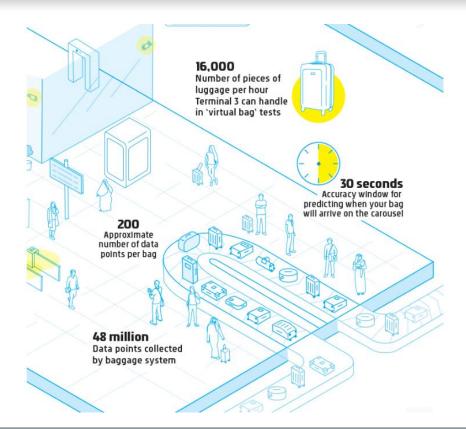
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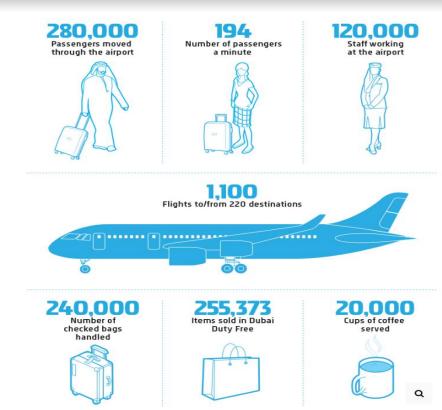
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Eid Holiday (1 day) 2019

How things will look like with 5G?



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24 Servers

12 CCTVs, 6 TB storage, 1K Meters of Fiber cabling, AD, DNS, DHCP, Wireless APs

- A. Data center of a local airport
- B. Data center of a medium business
- C. Data center of an international airport

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Boeing 777 - 300













Exit Doors

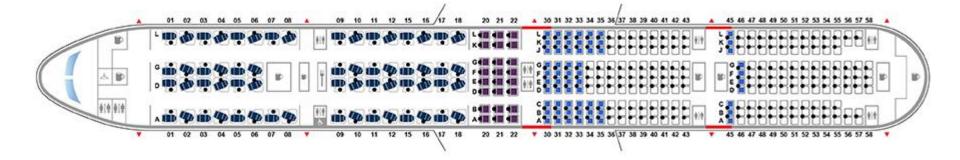
∯ ∰ Lavatory

Accessibl Lavatorie









A flying data center



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Welcome to the Smart Cabin

- Passengers health monitoring !!
- Access your Netflix and Spotify (2022)



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My Airbus A321 Trip

- My Seat IP 172.17.34.136
- My Seat MAC address: 00:06:CF:03:E0:A6
- The Ent. Server name: D2P1-V111





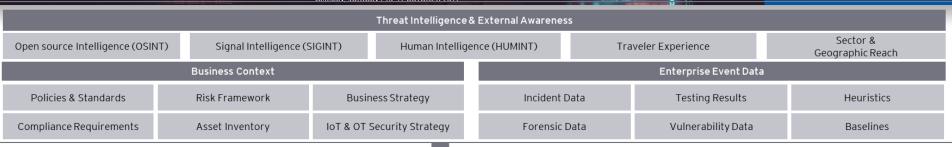
So how can we put all this data to good use?

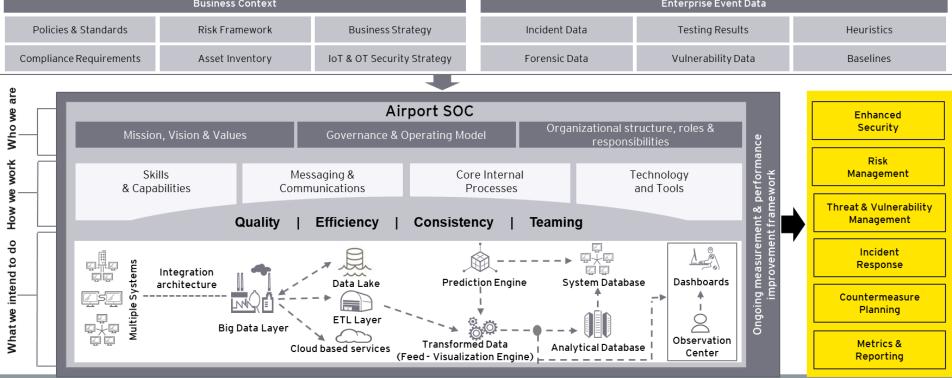


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Airport SOC

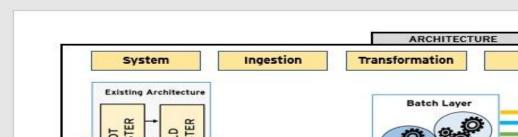


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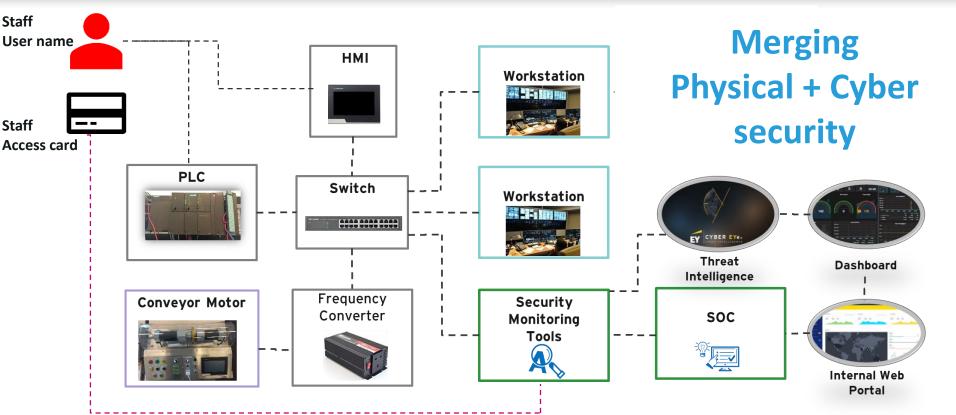


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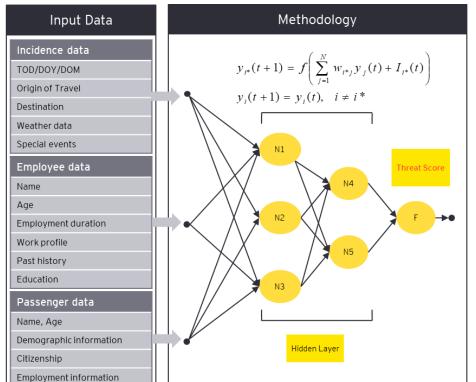


Baggage Handling Analytics

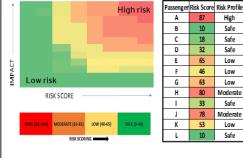
Current State

	Status
Reactive strategies undertaken once an alarm has been flagged against a baggage	✓
Proactive or predictive Capabilities to identify threat	×
Streamline no. of bags for manual checking	×
0.00	





Outcome





* TOD: Time of Day, DOY: Date of Year, DOM: Date of Month



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Aviation Cyber Security Guidelines



A regional 1st

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Questions?



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South American (SAM) Office Lima

ICAO Headquarters Montréal

Western and Central African (WACAF) Office Dakar

Paris

European and North Atlantic (EUR/NAT) Office

Middle East (MID) Office Cairo

Eastern and Southern African (ESAF) Office Nairobi

Asia and Pacific (APAC) Sub-office Beijing

Asia and Pacific (APAC) Office Bangkok

ICAO 2019 THANK YOU

الإيكاو ٢٠١٩