

# Challenges of real world advanced cyber security threat

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# Challenges of cyber security threat in the airports operation management

- 1 Regulations
- Monitor Activity and map airport data flow
- **Emerging Technologies** 
  - Cloud
  - IoT

- 2 IT Strategy is not aligned with enterprise/airport Strategy
- Resources/People
  - Lack of expertise
  - Lack of budget
- 6 Legacy Technology

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"The importance of cybersecurity is well recognized and airlines and airports are investing in building a solid security foundation. However, the number of cyber threats continues to grow exponentially every year, as does the sophistication of those threats. Given the complexity and integrated nature of the air transport industry, we need to move far quicker in establishing **proactive defenses** to ensure we stay ahead of the game."

Barbara Dalibard, CEO of SITA



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**60%** say that that careless or unaware employees and outdated information security controls are the vulnerability that have most increased organisations risk exposure over the past 12 months. At the same time many organisations have proper cybersecurity programs in place that addresses the different vulnerabilities.

Top 10 biggest cyber threats to organisations

20% - Cyber attacks (to steal financial information)

**20%** - Phishing

18% - Malware

14% - Fraud

11% - Cyber attacks (to disrupt)

**6%** - Internal attacks

5% - Cyber attacks (to steal IP)

4% - Spam

2% - Natural disasters

1% - Espionage



17%

Of organizations report a list of breaches in their information security reports



7%

Of organizations report the financial impact of every significant breach



79%

Would increased their cybersecurity budget after a serious breach

Global Information Security Survey 2018-19, EY

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Identif

Identify the Attack Surface

Trust Assessment



Digital Security Framework



Protect Against Known Threats

Rapid Response





Detect Unknown
Threats

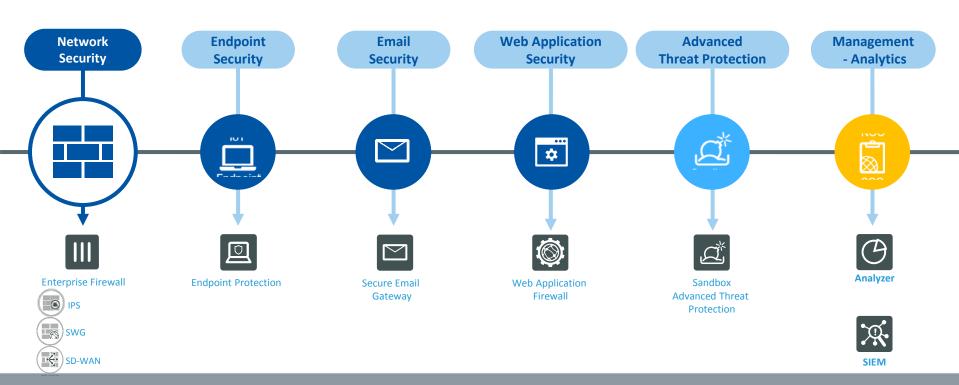
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75 YEARS OF CONNECTING THE WORLD

We implement a security architecture during 2018 as base line for information security defense



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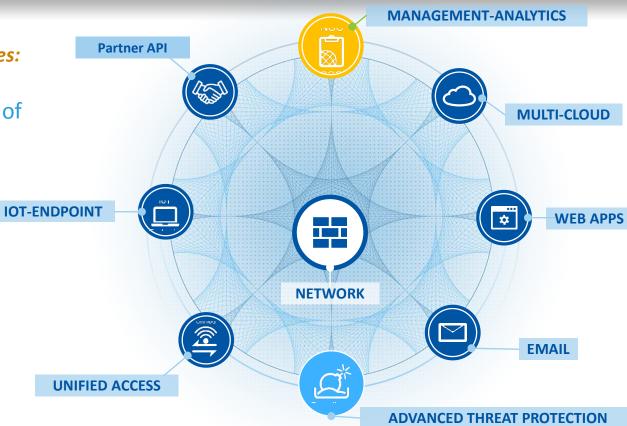


#### **Security Architecture that provides:**

**BROAD** Visibility & Protection of the Digital Attack Surface

**INTEGRATED** Detection of Advanced Threats

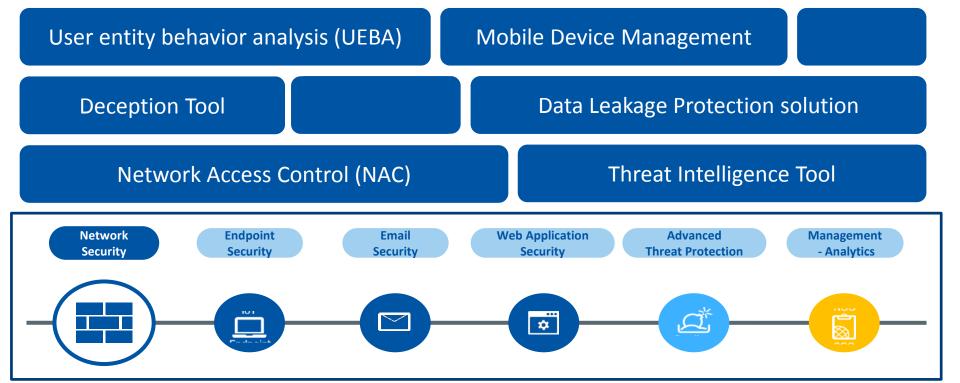
**AUTOMATED** Response & Continuous Trust Assessment



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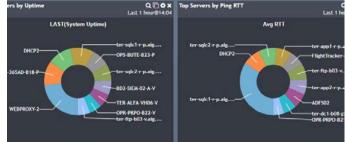
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### Sample of SOC dashboard and monitoring tools







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## **Trust Assessments**

In-house Vulnerability Assessment External Penetration Testing

Data Traffic Analysis Regular System/ Application/ Configuration review

IT Quality review

IT External Audit

#### Benefit of trust assessments

Reveal vulnerabilities

Show real risks

Test your cyber-defense capability

Ensure business continuity

A third party expert opinion

Maintain trust

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**Thank You** 

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