SATIE has been developed to combat the persistent issue of airports cyber security.

Holistic approach to threat prevention, detection, response and mitigation in airports, while guaranteeing the protection of critical systems, sensitive data and passengers.

SATIE aims to integrate, harmonise and enhance security management at airports for all stakeholders.
Concept and objectives

Disruptions in airport operations may result from physical and/or cyber-attacks as well as their interconnected systems. Recent events demonstrate an increase of combined physical and cyber threats. A comprehensive, yet installation-specific, approach is needed to secure existing or future, public or private, connected and interdependent airport systems.

SATIE:

- Aims to integrate, harmonise and enhance security management at airports for all stakeholders
- Conducts cyber-physical risk assessments related to critical systems-of-systems
- Integrates solutions from the physical and cyber security spheres

SATIE has been developed to combat the persistent issue of airports cyber security through:

- **A holistic approach** to threat prevention, detection, response and mitigation in airports, while guaranteeing the protection of critical systems, sensitive data and passengers
- **A combination of an interoperable toolkit** that improves cyber-physical correlations, forensic investigations and dynamic impact assessment - and has the capability to counteract the new and increasingly complex cyber-physical threats that airports are currently facing
- **A way to a new generation of Security Operations Centres (SOC)** that can be included in a comprehensive airport security policy
- **A project’s applicability to real-life scenarios** being validated through demonstrations in 3 European Airports (Zagreb, Croatia; Milan, Italy; and Athens, Greece)
In addition to our role as the design authority of the SATIE project, we act as capability leader for the correlation engine that will be at the very heart of the cyber-physical SOC capacity. It will prevent complex blended threats from getting through the various layers of defence. We are also responsible for managing incidents and can offer our CyberRange services.

Our contribution
Why does SATIE project matter

Airport and Aircraft Companies are targeted by cyber-attacks:

- In March 2018 a ransomware in Atlanta Airport encrypted multiple official computers and forced the airport to shut off its internal Wi-Fi network as a security measure to avoid ransomware spreading.
- In April 2019, Cleveland Airport has been affected by publicly unreported ransomware preventing the display of baggage and flight information screens.
- A cyber-attack occurred on the IT network of RavnAir in Atlanta, in December 2019, targeting the maintenance system of a specific aircraft type. The company had to shut down and knock out every part of the IT network as well as computers and servers. RavnAir had to cancel 8 flights, a few others were delayed and the company was affected for at least one month.
- In March 2020, a hacking group infiltrated into the network of San Francisco’s International Airport and maliciously injected code into the websites to steal the user credentials used by employees.

18 participants from 10 European countries

- Frequentis AG (Austria)
- Zagreb Airport (Croatia)
- Airbus CyberSecurity (France)
- Deutsches Zentrum für Luft- und Raumfahrt e.V, Institut für Flugführung (Germany)
- Athens International Airport S.A (Greece)
- Network Integration and Solutions SRL (Italy)
- Società per Azioni Esercizi Aeroportuali (Italy)
- ITTI sp. z.o.o. (Poland)
- Inov Inesc Inovação (Portugal)
- Instituto Superior de Engenharia do Porto (ISEP-GECAD) (Portugal)
- Ustav Informatiky, Slovenksa Akademia Vied (Slovakia)
- Etics Research and Innovation (Spain)
- Teclib Spain SL (Spain)

HORIZON 2020: ec.europa.eu/programmes/horizon2020
SATIE: satie-h2020.eu

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