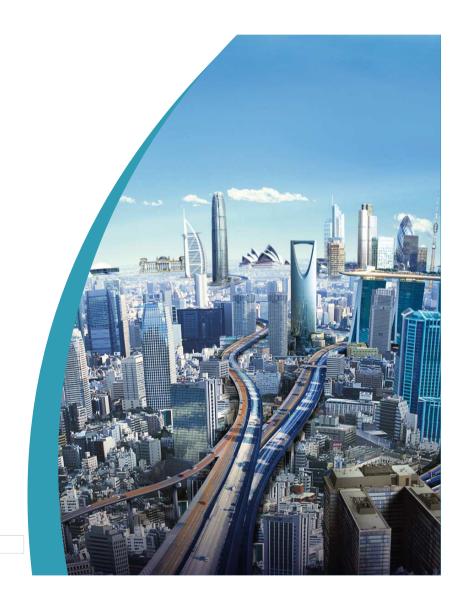
THALES

Thales Overview & Cybersecurity on Critical Infrastructure Protection

April 2018

A.Toqiqri



Gruppo Thales

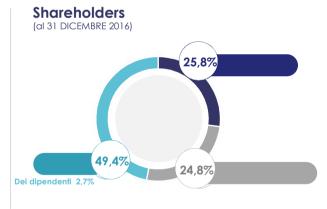
L'intelligenza di tutti per un mondo più sicuro

Ogni volta che devono essere prese decisioni critiche, Thales ha un ruolo da svolgere. In tutti i mercati - aerospaziale, spazio, trasporti, difesa e sicurezza – le soluzioni Thales aiutano i clienti a prendere le decisioni giuste al momento giusto.

Le tecnologia di livello mondiale, l'esperienza combinata di 62.000 dipendenti e le sedi, in 56 paesi, hanno fatto di Thales un'azienda chiave nel mantenere la pubblica sicurezza, il controllo di infrastrutture vitali e la tutela degli interessi di sicurezza nazionale dei paesi di tutto il mondo.



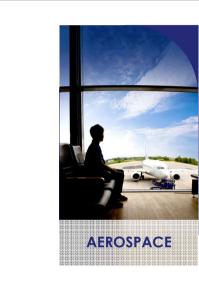




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Businesses







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EACH OF THE MARKETS
THAT THALES SERVES
PLAYS A VITAL ROLE
IN SOCIETY.

Thales operates as a **single organisation**, drawing on the talent and technologies of the entire Group to act as prime contractor, systems integrator, equipment supplier and value-added service provider on both civil and military programmes.

Thales Italia overwiev



- mercato della sicurezza, con competenze nella protezione e sorveglianza d'infrastrutture critiche (aeroporti e siti sensibili) e nella cybersecurity;
- mercato della difesa, con competenze nelle reti e nei sistemi di comunicazione;
- mercato dei trasporti, con competenze nei sistemi tecnologici per metropolitane, tramvie e ferrovie e nel ticketing;
- mercato della gestione del traffico aereo, con competenze nei sistemi di atterraggio, navigazione e sorveglianza.
- Mercato Avionico



Rail signalling systems



Cyber Security



Military tactical systems



Critical in Infrastructure



March 2017

Thales / Template: 87204467-DOC-GRP-EN-002

4

Land and Air Systems (LAS)

Thales Italia offer:

- > Landing, navigation and control systems
- In flight care systems
- Traditional and satellite navigation systems
- Surveillance systems and airport ground traffic control

- Tacan for USAF, Pakistan, Alenia Aermacchi
- Navaids products for Marshall (UK MOD)
- China Air traffic management system
- Enav Air traffic management system
- Air Force (DVOR/DME Gioia del Colle, Tacan upgrade, ILS Mobile, MLS Ghedi)

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ILS "Deployable" for Italian Air Force and USAF



COMPETENCE CENTER



Navaids Solutions



SIX Domain – Security and Defence activities

Thales Italia offer:

- > Security, supervision, control and information management systems for sensitive and critical infrastructures (ports, airports, oil&gas infrastructures, roads)
- Products, solutions and services for cybersecurity
- > Infrastructural and tactical telecommunication systems and networks
 - Dubai Airport T3 C2/C3 Integrated security solution
 - Lyon Airport & JFK NY AOCC
 - Oman and Bahrain Airports Integrated security
 - Agip Kashagan O&G security
 - ENI Zubair Iraq –O&G security
 - Poste and ENAV Pysical Security
 - RIFON and RNI MOD networks and Services
 - Enteprise & Institutional customers (incuding MoD)-Secure info & trust mgmt. & Cybersecurity consulting

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- CBRN vehicles and labs for MOD
- MOI security networks



MAIN COMPETENCES



- Airports Security & Operations
- Critical Infrastructure Protection
- Cybersecurity
- MoD Networks and Systems



Critical Information Systems and Cybersecurity

A complete range of solutions...









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Cybersecurity Operation

... for end-to-end data security







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Ground Transportation Systems (GTS)

Thales Italia offer:

- > Tramway and railway signalling
- Security, supervision, control and information management systems for transportation infrastructures
- > Contactless solutions for integrated fare systems
- > Tunnel Security
- Telecommunication, Passengers information, SCADA, TVCC, onboard systems
- > Assets Security and Energy saving
 - Dubai Metro Green and Red Line Telecom and Security system
 - Metro Cairo L3 Telecom and Security system
 - Lusail LRT Ticketing for tramway lines
 - Catania-Circumetnea Metro Line –Security and signalling systems

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- Palermo tramway system
- Taiwan Danhai Tramway Line
- Mexico Ticketing system for BRT Line 6



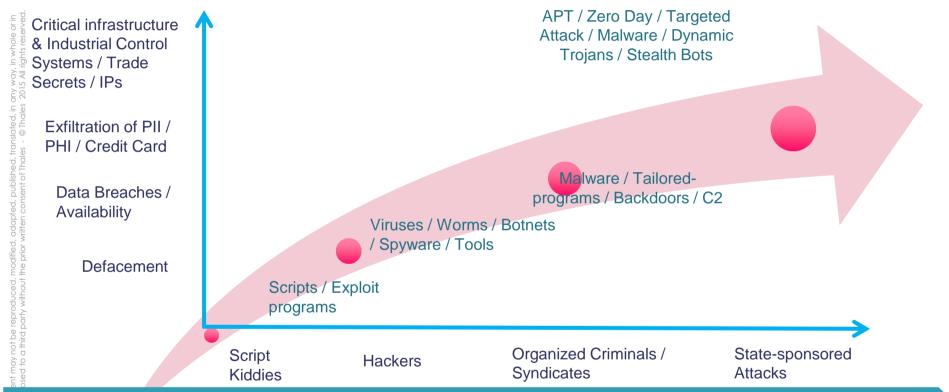
COMPETENCE CENTERS



- Tramway Solutions
- Ticketing Solutions
- Rail, metro and tunnel infrastructure protection



Cyber Security Landscape – Sophistication of Attacks



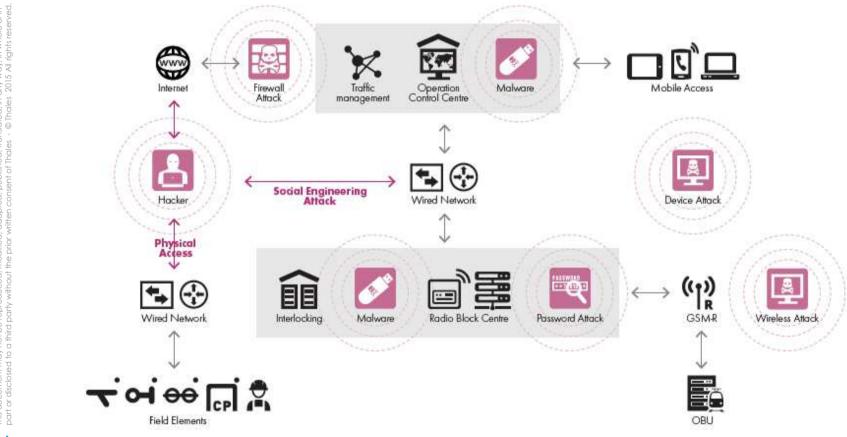
The chessboard for hackers has changed: evolving from private and individual targets, now to threatening government and national critical infrastructure on a global scale



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Threats We are Facing Every Day



10

INALES



Our 3 Cyber Security Pillars

- Hierarchical deployment of different **levels of Security** controls
- Implemented through design (secure by design) and operations
- A **single failure** (equipment, human) would **not propagate** to subsequent levels

Standards

Defense in Depth





- IEC 62443

- Common Criteria

FIPS 140

- ISO 2700x (ISMS related)

Fran

Cyber Security
Framework
(NIST)

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