## LE $<\cdot S$

The innovative appliance of network security.


## Roberto Camerinesi

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. Inventor of LECS Project
. Network Penetration Tester
. Security Researcher

Roberto Camerinesi is a researcher in cyber security, developer and CTO of Cyber Evolution SRL. Embracing the filosofy of Ethical Hacking in his adolescence, he has been working for over 11 years in the ICT and Security branch.

During his life he acquired various International Certification in this field and in Network Defence such as Penetration Tester.

He believes that security is an idea that needs to be spread, and for this he divulges and studies sistems to capillarise security, inventing and patenting air-gap defense sistems.
As a popularizer and speaker, he has spoken at important events and training institutions such as the Experis Academy master, ITASEC21 and as a finalist in the WMF20 startup competition.

He writes and contirbutes to several national newspapers such as Hackin9, InfoSec and CyberSecurity360.

## The Problem



## The Cause

## A STRONG LACK OF CYBER SECURITY IMPLEMENTATION IN PMIs, OFFICES AND COMPANIES

"On average, only 5\% of companies' folders are properly protected"


## Nowadays Problems

```
Know-How
Unqualified staff and unsufficient formation.
Not security by Design
Inadeguate network topologies, BYOD implementations and structures
Costs
Installation/
Implementation/
Maintenance
```



```
Weak Points
Social Eng, IoT, Distance Learning, Remote Work
```


## Aftermath



## High Threat Prolification

Zombie Botnets, spywares, ad ransomwares have a wide operation range.


Local damages and «not GDPR/16»
Loss of normal and sensitive data, mail and credit card breaches, notification costs to victims and authorities


Buisness Loss related Costs
Turnover's reduction, inflation and loss of reputation.


Costs detection ed escalation

Help-Desk, investigative activites and forense, IRT organization and assessment services related costs.

## Eluding Security

MOST OF DANGEROUS INTRUSIONS HAPPEN THROUGH EMAILS,
ALWAYS CHANGING METHOD AND APPEARANCE



Protect your company with LECS, the very first Plug\&Play cyber security device that safeguards from attacks and IT threats everytype of net, device, Industry or IoT in the LAN.
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No Maintenance. No Configuration.
Predictive.
Smart.
Autonomous.

Top-tier protection, for everyone.

## How It Guards You

The Technology $\qquad$ LECS CYBER PLATFORM

The Alghoritms $\longrightarrow$


## LECS: How does it work



- Restores network connection

UTiBen

- Checks the presence of other threats
- Machine Learning Method and Predictive System
- LOG-SIEM long-term storeing and monitoring statistics


## LECS: Security over the threats

## Internal Network Error Debugger



Synergy
 Network Error Engine


## LECS: Air-Gap RAISES systems advantages



## LECS: Features

## INTEGRABILITY

## LECS can be either installed stand-alone

or as an addition and support to pre-existent systems like firewalls, antimalwares and similars, increasing their efficiency.

## VERSATILITY

It protects every type of network and nodes while supporting a lot of protocols.
Device IoT, Industrial-IoT, Server, Desktop, Mobile OS...

```
PLUG & PLAY
```

LECS's simplicity of implementation aims to give more protection against dangerous attacks at a lower price of mainentance and implementation of security appliances

## LECS: Comparison

| Caratteristiche | LECS | Antivirus | Firewall | IPS |
| :---: | :---: | :---: | :---: | :---: |
| Plug \& Play | ( | $\times$ | ( | ( |
| Contromisura elettrica o procedurale innovativa | ( | ( | ( | ( |
| Protegge attivamente dispositivi IoT ed Ind.IoT | ( | ( | ( | ( |
| Agisce da trappola nascosta | ( | $\times$ | ( | ( |
| Archivio LOG fisico lunga durata - blackbox | ( | - | x | ( |
| Protezione intra-network | ( | - | ( | ( |
| Installazione parallela, no pass-thru | ( | - | ( | ( |
| Nessun know-how tecnico per manutenzione | ( | ( | ( | ( |

## LECS: Simplfied LOG Management



The app allows to check the LOGS acquired by LECS.

The classification is based on the type and severity of the attack, acquiring statistics and much more

Weekly report
Via the web app is possible to recieve notifications and emails about urgent attacks.

## LECS: Advanced Dashboard



## LECS: Implementation STRATEGIC POSITIONING IN m-PMI and IT AMBIENTS



## LECS: Implementation STRATEGIC POSITIONING IN INTEGRATOR/4.0 AMBIENTS



# LECS: The right side of force VS Advanced Ransomware Kill-Chain 

WORLD'S MOST DANGEROUS MALWARE
EMOTET DISRUPTED THROUGH GLOBAL ACTION
Press Release

2.000.000.000 \$
in losses
Law enforcement and judicial authorities worldwide have this week disrupted one of most significant botnets of the past decade: EMOTET. Investigators have now taken control of its infrastructure in an international coordinated action,


Attack Flow


## LECS: Version



# LECS: Market Target/ Partner 

Industrial Projects
Machines 4.0

Rapid Installations
Parallel implementation
No incompatibilities
with other vendors
Scalability

PMI
Privates
Substitute to other measures
Plug \& Play Solution
Scalability

1. Innovative and Patented efficent countermeasures
2. Plug \& Play, no configuration needed, many less costs
3. Parallel or Stand Alone integration to every network or pre-existent protection system
4. Simplicity in the comunication of details to the user or IT
5. Support to the 4.0 Industrial IoT and related sistems
6. Security by design, blackbox approach
7. GDPR / ISO / NIST Framework Compliance Support

## Press \& Media



Sky TG 24


2021 B2B SWG Report


WMF 2020


ItaSec21 Presentazione tecnologia LECS


Il Resto Del Carlino


ManpowerGroup
Testimonianza c/o master Experis 05/2021

# Thanks! 



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