THE NEW ERA
SECURITY INNOVATION DAYS 2020

ELEVENLABS II
Security Innovation Days 2020
ILabs - Certifications & Accreditations
“All you need to know”

1. Natural ecosystem with international vocation
2. What it is, what we do
3. Current projects and collaborations
4. Benefits and future...
In Cybersecurity it is not enough to show skills and technical prowess or mastering cybersecurity tools. Building **certified and approved products and services** allows you to positively distinguish yourself in today’s fragmented ecosystem and be recognised.

To leverage this edge, we created **ILabs – Certifications & Accreditations** unit, with the goal of helping the delivery of complete, accreditable, end-to-end solutions to our customers building upon certified components and contributing outstanding value through the whole process.
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ILabs - Certifications & Accreditations

What it is & What we do

• It is a unit integrated into ElevenPaths Innovation & Labs dedicated to maximize impact of good security designs and make technologies, products and solutions stand out in the market by sponsoring and assessment on certification and accreditation paths from the start.
• It also works as an enabling and attracting engine for new technologies, services and products.

Technologies, products and solutions

Approved and recognised technologies, products and solutions

Compliance Assurance
Competitiveness
Consistency
Protection

ILabs - Certifications & Accreditations
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Current projects and collaborations
ILabs - Certifications & Accreditation

Benefits and future

- Brand/products positioning in national as well as international markets
- Higher cybersecurity assurance levels for clients and users
- Improved competitiveness of cybersecurity solutions
- Market access
- Better standing in the sector
- Better reputation for us and our customers

IF ANYONE DID NOT UNDERSTAND SOMETHING, RAISE YOUR HAND
GO ON, MANOLITO, WHAT DID YOU NOT UNDERSTAND?
FROM MARCH TILL TODAY, NOTHING!
Speed dating
AMSIExt

Intercept threats before the AV does

AMSIExt is a browser extension that will alert you to malicious JavaScript, PowerShell or whatever – even before it may be executed or downloading in your system

https://amsiext.e-paths.com/

Fast

It detects the threats directly in the memory of the browser before touching the disk, even before the antivirus works

Focused

If it detects files or pages that have potentially dangerous extensions, such as .js, .vbs, .vb, .bat or .ws, among others, it will stop browsing and block that website

Efficient

It connects the browser to windows AMSI, which will forward all the scripts to the AV solution. AMSIExt strongly support the current trend of fileless malware.
ChainLock

A Linux Tool for Locking Down Important Files

The ChainLock CLI is the provided interface to lock and unlock the files by choosing the only **authorized application** to open and access them.

The **Android device** is the only authorized **security custodian** and manager of any operation related with the locked files.

The ChainLock CLI pops up a QR code once the file has been onboarded. The companion APK can use this code to store information about the file and the authorized application.

The **app will send the information necessary to unlock it using a Tor hidden service.**

A Linux daemon watch over the file and only allow access from the authorized binary application, and then decrypts the file so it can be used. **If any unauthorized application tries to access the locked file, a notification is displayed to the user.**

[https://chainlock.e-paths.com/](https://chainlock.e-paths.com/)
Impact

- **Blog**: 100 annual entries
- **SSMM**: 200 short messages
- **CyberSecurity Pulse**: 4400 subscriptions
- **CyberSecurity Report**: 2 reports: 2019H2 and 2020H1
- **Conferences and seminars**: 30 conferences and technical sessions

★ **OpenSSF (Open Source Software Security)**

- Cross-industry collaboration that brings together leaders to improve security
- ElevenPaths joins this Foundation as an Additional Founding Member
- Open source software has a chain of contributors and dependencies when it reaches end-users. The OpenSSF responsibility is to verify the security of this dependency chain
DoH (DNS over HTTPS)

DoH switches from an unsecured request for a domain through an UDP or TCP package, to a common GET/POST request to a HTTPS domain, so this process becomes a more standard approach and also leads to multiple benefits and services that can be build over it such as enhancing the cache-control with the TTL security mechanism.

- We made the EasyDoH plugin in order to understand the potential of the DoH proposal RFC, raised by the Internet Engineering Task Force (IETF).
- EasyDoH is a Firefox plugin that allows to choose easily between different DoH servers
  https://easydoh.e-paths.com
- With this knowledge we built the ElevenPaths DoH server (beta) to provide private domain name resolutions
  http://doh-beta.e-paths.com/
- Finally, we have integrated a filter for malicious domains thanks to our intelligence system. As well as improving the user’s security, safeguarding their privacy in our public service.