

About me



Agenda

Threat levels and cyber threat levels

What data do we need?

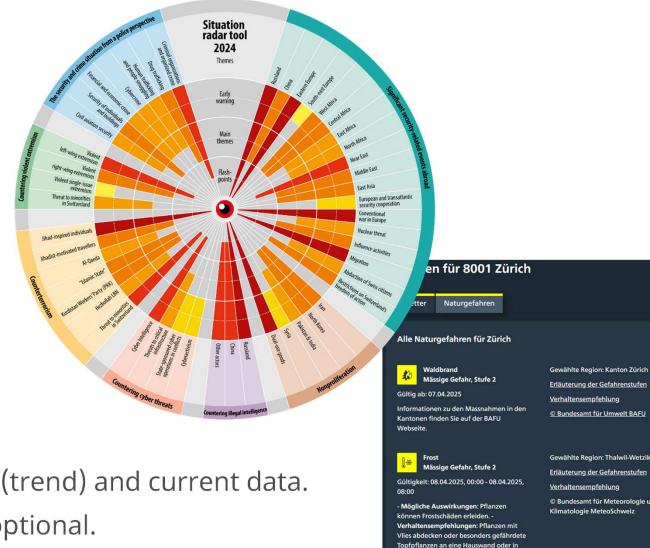
Where do we get the data from?

How to make use of your cyber threat level?

Sensitivity: C1 Public

Other threat levels

- Governments
 - Terror
 - Extremism
 - Health (infections)
- Organizations
 - Weather
 - Maritime conditions



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All are based on past data (trend) and current data. An element of forecast is optional.

Sensitivity: C1 Public

Cyber threat level – AI definition ;-)



Copilot

A **cyber threat level** is a measure used to indicate the severity and likelihood of potential cyber threats, helping organizations assess risk and prioritize their security responses.

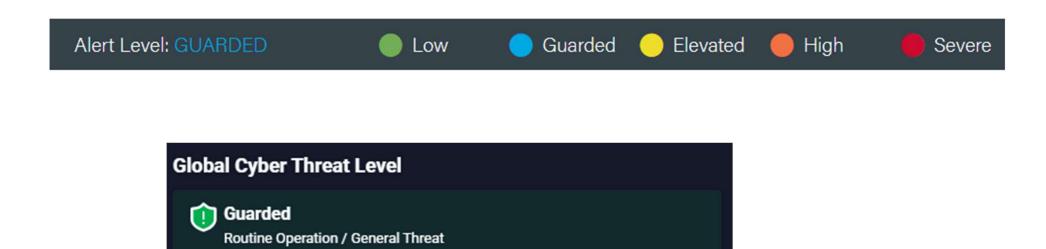


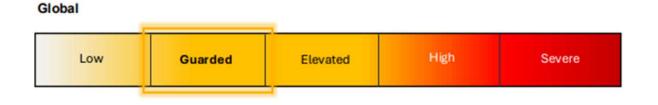
A "cyber threat level" is a measure of the current risk posed by cyber threats to an organization's information systems, indicating the likelihood and potential impact of cyber attacks or security breaches. It helps in prioritizing security measures and responses.





Cyber Threat Level - Examples





Sensitivity: C1 Public



Cyber Threat Level Scale

- Most (cyber) threat levels use a 3-5 step scale
- The «default» level varies with each scale and context.
- The scale is often dependent on the requirements of the audience and what is considered «normal»

Examples:

3 - low / medium / high

4 - low / guarded / elevated / high

5 – low / guarded / elevated / high / severe

- Hints for your own scale:
 - Keep it simple
 - If you use more than 3 levels, make sure you have enough data
 - Many customers do not care about a level «below normal»
 - Define clear criteria for your levels





What data can you base your cyber threat level on?





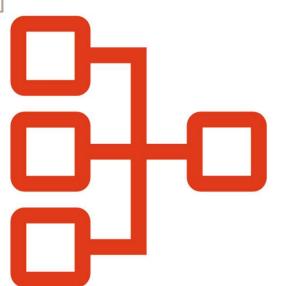
Data types to consider

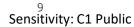
Industry sector information [sharing / buying]

Geographical information [sharing / buying]

Global information [sharing / buying]

Company data [your collection]





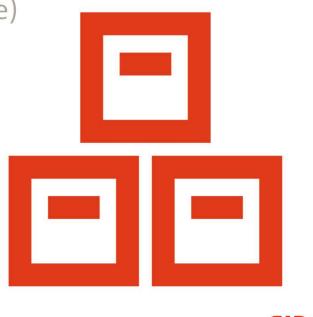


Industry sector specific data

- Which company types are targeted? (target details within the sector)
- How are companies in the same sector targeted? (attack types)
- How frequently are they targeted? (attack volume)
- Which threat actors have been identified?

Sources

- Open source collection (DIY)
- Commercial providers
- Information sharing organizations
 Sensitivity: C1 Public





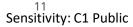
Geograpical and global data

- Are areas where your company is active targeted? (target details within location)
- What attacks are reported within your geographies? (attack types)
- What are the properties of the reported attacks? (attack volume, quality)
- Which threat actors have been identified?

Sources

- Open source collection (DIY)
- Commercial providers
- Information sharing organisations





Challenges with sector and geographical data

- Commercial (OSINT) providers have a limited visibility
- Information sharing initiatives may overlap (constituency, area, sector)
- International and multi-sector companies may only provide overall numbers
- Shared IT infrastructure prevents attribution to geography for multinational companies
- Sharing initiatives for specific geography/sector may not exists -> start building communities



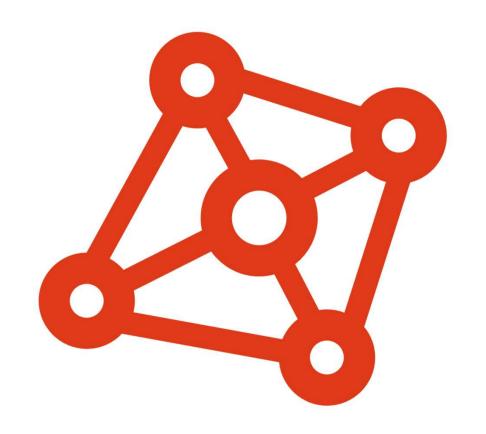
Company data overview

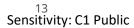
Security incidents

- Vulnerabilities

Security perimeter

- OSINT (incl. dark web)







Company data details (examples)

Security incidents	Vulnerabilities	Security perimeter	OSINT
 Number of true positive incidents (by type) Detected TTPs Noteworthy incidents flagged by SOC 	 Affected assets Exposed to Internet Exploit available Patching time frames 	 Firewall Web application firewall (WAF) DDoS protection Mail gateway VPN / RAS devices MFA services Authentication logs 	 Social media Domain registrations Brand / Logo abuse Dark web
 SOC report True positive phishing Phishing TTPs Reported CEO fraud Brute force incidents Data leak incidents 	 Vulnerability scanner result Threat intelligence tools for CVEs Vulnerability management policy & exceptions 	 Malware emails (malware type) CEO Fraud emails WebApp vulnerability exploits DDoS mitigation actions Failed login attempts (MFA) 	 Executive impersonation Leaked credentials Phishing sites





What to do with your cyber threat level?



Cyber threat level audience

- Risk & Security

Cyber security

- Upper management

Operational teams

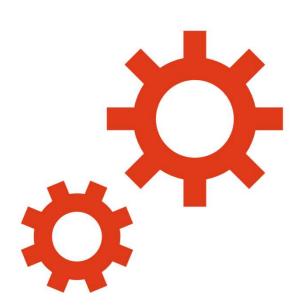


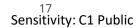




Cyber threat level use

- Situational awareness
- Align cyber security teams activities
- Adjust activity focus
 - specific hunting activities
 - increased monitoring (e.g. frequency)
 - faster communication
 - additional detection rule activation



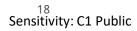




Cyber threat level lessons learned

- Finding & making data available takes time
- Data analysis and trend generation needs some refinement
- Aligning all stakeholders is important
- Do threat level internally for a while to get experience
- Properly justify each threat level change
- Do not change the threat level too frequently (use experience and your definition)
- Clear responsibility who decides on the level is needed





Thank you



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