Setting up a Security Operations Center/Cyber Defense Center

Darmstadt, 15th of March 2022, 6 pm.



Speaker 1

LinkedIn

Website

Jutta Edith Zilian CISA, CISM, CGEIT, PMP, CAPM, Mag.

- Project Management and Information Security Consultant (since 1994)
- University degree 1994 (Magister, Leopold Franzens Universität Innsbruck)
- in IT since 1993
- Projectmanagement since 1996
- IT Security since 2004
- Information Security since 2006
- ISACA Workinggroup IT Compliance
- PMI Germany Chapter Chapter Operations (CISO) & Head of Volunteering



Speaker 2

LinkedIn

Website

Ernesto Hartmann Chief Cyber Defence Officer

- Member of the executive board and responsible for the cyber defense center
- Development of managed detect and response services
- Information Security since 2001



Agenda

- Mandate for the project (why we like to undertake this)
- Request for proposal (RfP)
 - Current market
- Considering the EBA Guideline on outsourcing arrangements
- Critical Infrastructure (KRITIS)
- Request for Proposal (RfP) and Request for Quotation (RfQ) process itself
- Setup a Security Operations Center/Cyber Defense Center (the project itself)
- Do 's, Don'ts and pitfalls



Mandate (why we like to undertake this)

- If you are in regulated branch
 - Financial Sector
 - European Union (EU)
 - European Insurance and Occupational Pensions Authority (EIOPA)
 - Germany: VAIT
 - European Banking Authority EBA (Financial Sector)
 - Germany: BAIT
 - Switzerland
 - FINMA
 - Austria
 - No local regulations anymore (refer to EIOPA and EBA)
 - Critical Infrastructure (KRITIS)
- Other branches
 - Project Digitalization, Cybercrime

Make or buy (Outsourcing)

- If you like to setup your SOC Project alone keep in mind
 - Building up a SOC/CDC from scratch takes at minimum 2 years till it 's running smooth
 - Can your organization effort a real 7x24 onsite duty?
 - Do you have the technical knowledge on stock?
 - · Keep in mind the market is empty
- If you build up a hybrid SOC/CDC
 - Your outsourcing partner has the knowledge and the staff for 7x24 operations
 - Your staff will build up the knowledge or keep it
 - It's real partnering
- Fully managed SOC/CDC Outsourcing
 - You loose knowledge
 - Who is capable to do the triage?
 - Keep in mind even here you need a "retained organization" inhouse!



- Decide if you will go for an RfP only or (preferred from my side) go for an RfP/RfQ combination directly
- What are your requirements for the location of the SOC/CDC?
 - EU/EEA/Switzerland only?
 - Outside this area –General Data Protection Regulation (GDPR) equivalent in place?
 - In case of healthcare or insurance which offers health care insurance
 - § 203 Criminal Code Germany / § 203 StGB Germany (about special professional groups, even it 's not that tight anymore as it was prior to 2018)
 - Health Insurance Portability and Accountability Act (HIPAA) USA



- SOC/CDC requirements
 - Real 7x24 on site duty required? Be careful, if you need it, some provider offer a on call duty during night shift only
 - SIEM requirements
 - If you already have one, do you want to keep it?
 - Which generation SIEM is acceptable for you?
 - E D R requirements
 - If you already have one, do you want to keep it?
 - Is it a must that the provider offers this to you fully managed?
 - Is a integration of an E D R in the SOC infrastructure only, acceptable for you?
 - Do you have a vulnerability management in place?
 - Mandatory for the RfP?



- SOC/CDC requirements
 - Don 't forget the "RIGHT TO AUDIT CLAUSE" don 't forget to write it into ANY outsourcing agreement!
 - Due to which standard should the Outsourcing operator be certified?
 - PCI/DSS needed?
 - Are you fine with ISO 22301, ISO 27001 only?
 - SOC / CDC Staff
 - L1-L3 Level SOC Analysts needed? Or do you want to perform L3 analysis by yourself?
 - Project Scope
 - How many use cases needs to be included?
 - How many threat intelligence feeds?
 - etc.



- SOC/CDC requirements
 - Governance
 - Audit of, but not limited to:
 - KPI
 - KGI
 - SLA
 - Use Case Lifecycle
 - SOC FTE Verification
 - False negative verification
 - All data for verification must be audit proof saved
 - Chain of custody



Gartner

International

MSSP

Market Overview





High level market overview (beside Gartner)

- IBM Wroczlav, Poland (English speaking)
- Airbus Ottobrunn/Taufkirchen (German and English available)
- Fujitsu
- NTT
- CGI Northern part of Germany (German speaking)
- DXC Southern part of Germany (German speaking)
- 2 out of the Big 4 (EY, Deloitte)





Current Regulations

European Banking Authority (EBA)

https://www.eba.europa.eu/regulation-and-policy/internal-governance/guidelines-on-outsourcing-arrangements

https://www.eba.europa.eu/regulation-and-policy/internal-governance/guidelines-on-ict-and-security-risk-management

Bundesanstalt für Finanzdienstleistungsaufsicht (BAFIN)

https://www.bafin.de/SharedDocs/Downloads/DE/Rundschreiben/dl rs 1710 ba BAIT.html

Eidgenössische Finanzmarktaufsicht (FINMA)

https://www.finma.ch/de/~/media/finma/dokumente/dokumentencenter/myfinma/rundschreiben/finma-rs-2008-21-20200101.pdf?la=de



Current Regulations

Critical Infrastructure - KRITIS

https://www.bsi.bund.de/DE/Themen/KRITI S-und-regulierte-Unternehmen/Kritische-Infrastrukturen/Allgemeine-Infos-zu-KRITIS/allgemeine-infos-zukritis_node.html

https://www.bbk.bund.de/DE/Themen/Kritische-Infrastrukturen/kritische-infrastrukturen node.html

Branches

https://www.bbk.bund.de/DE/Themen/Kritische-Infrastrukturen/Sektoren-Branchen/sektoren-branchen node.html





https://www.bbk.bund.de/SharedDocs/Bilder/DE/Infografiken/KRITIS/Sektoren-

Kuchen.jpg?__blob=normal&__ifc=large&v=6

RFP Process

- Build a longlist
 - Ask them, if they like to have your RfP
 - Ask them to sign an NDA for the RfP
 - Send them the RfP (RfQ included)
- Provide a specific date and time till when you accept offers
- Weight the offers
 - Those with the lowest sum at the end, don 't need to be a lowest bid
 - Make them comparable
- Build a shortlist (3 up to 5 bids)



RFP Process

- Build a shortlist (3 up to 5 bids)
- Invite them to present their bids
- Conduct a workshop with the Top 3 vendors you have chosen
- Call for Best and final offer
- Chose your vendor
- Sign a letter of intent with them or conduct, if necessary, a Proof-ofconcept phase first
- Run the real SOC/CDC Setup Project
- Have fun!



	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
RFP														
LOI/POC														
Design														
Installation														
Development														
Integration														
Onboarding														
Test														
Go Live														



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Ernesto Hartmann, Chief Cyber Defence Officer, InfoGuard AG

Cybersecurity Glossary

https://niccs.cisa.gov/about-niccs/cybersecurity-glossary

SANS Institute Security Glossary

https://www.sans.org/security-resources/glossary-of-terms/

