Predict, detect and respond with Intelligent Cybersecurity
New cyber risks on the way to smart society and a new social model Society 5.0

it-sa
Nuremberg, October 9th

Kai Grunwitz
SVP EMEA | NTT Security

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NTT Group at a glance

- 283,000 employees worldwide
- AA- in S&P
- 120+ years heritage
- USD 106 billion in total revenue
- Top 100 Global Innovator in Clarivate Analytics
- Top 5 IT Services Provider
- USD 3.6bn* R&D investment

*annual average over the next 5 years across NTT Group

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We partner with organizations **globally** to shape and achieve **outcomes** through **intelligent technology solutions**. For NTT, intelligent means **data driven, connected, digital and secure**.
Innovation made by NTT - We have invented the emoji 😊

Society 1.0
Hunting

Society 2.0
Agriculture

Society 3.0
Industrial Society

Society 4.0
Information Society

Digital Society

Value Driven  Diversified  Decentralized  Resilient  Sustainable
Companies will work on the Digital Transformation – But …

“…four out of ten of the current best performing companies will fail to adopt!”

According to Prof. Wade (IMD) Digital Business Transformation (DBT Center), Digital Vortex
Innovation and speed of change – a new phenomena?

1900, Easter Morning, 9am, 5th Ave, NYC

1913, Easter Morning, 9am, 5th Ave, NYC
Data center on wheels, our future vehicles...

...relying on remote services and V2X communication.

...with various entry points and linked paths...

Security by Design – DevSecOps - is fundamental!
Cybersecurity is at the center of the storm - called Digital Transformation.
(Kai Grunwitz)
Compliance ≠ Security
REALITY?

Do you have an incident response plan in the event of a security breach or of non-compliance of information/data security regulations (Country: Germany)?

- 36%

- Yes, we have an incident response plan
- Yes, we are in the process of implementing an incident response plan
- Not yet, but we are in the process of designing an incident response plan
- No, and we have no plans to implement one

- 95% - Claim to test their IRP at least once a year and 33% even once a quarter!

- 48% - Are fully aware of their companies IRP and 47% Partly aware!

ISW Survey – June 2019

Do you think that companies are well prepared for a Cyberattack and Incident Response handling?

- No, we have a massive gap to cover: 53%
- Incident Response Plans exist, but there is no real business awareness: 23%
- Awareness exists, but Incident Response Plans are still not very mature: 21%
- Yes, companies are well prepared: 3%

Source: NTT Survey ISW 2019, N = 168
Do you think that most Cybersecurity Strategies focus too much on Technology?

- Yes: 68%
- No: 17%
- Partly: 15%

Source: ISW Survey, NTT Security 2019
n = 172
Artificial Intelligence & Cybersecurity – a failed love affair?

Data Points exploding

AI Hype creates a dangerous sense of Security

Supervised Learning dilemma

Cyber Security Skill Shortage

Traceability of complex conclusions results in a pure AI trust model

Dependence on a singular algorithm

Hackers manipulating data labeling

„AI is not the Holy Grail of Cybersecurity“ (Kai Grunwitz), but ....
The Thing called Smart City

EternalBlue 2016 and still on Tour.

Shodan - “... Almost a million machines in the wild using the obsolete SMB v1 protocol, exposing the port to the public internet...”

Source: https://www.welivesecurity.com/2019/05/17/ eternalblue-new-heights-wannacryptor/
GandCrab    Ransomware

All the good things come to an end. For the year of working with us, people have earned more than $2 billion, we have become a nominal name in the field of the underground in the direction of crypto-fiber. Earnings with us per week averaged $2,500,000.

We personally earned more than 150 million dollars per year. We successfully cashed this money and legalized it in various spheres of white business both in real life and on the Internet. We were glad to work with you. But, as it is written above, all good things come to an end.

We are leaving for a well-deserved retirement. We have proven that by doing evil deeds, retribution does not come. We proved that in a year you can earn money for a lifetime. We have proved that it is possible to become number one not in our own words, but in recognition of other people.

In this regard, we:
1. Stop the set of adverts;
2. We ask the adverts to suspend the flows;
3. Within 20 days from this date, we ask adverts to monetize their bots by any means;
4. Victims - if you buy, now. Then your data no one will recover. Keys will be deleted.

That’s all. The topic will be deleted in a month. Thank you all for the work.
Business Model Ransomware

Do you agree or disagree with the following statements? - My organization would rather pay a ransom to a hacker than invest more in security because it is cheaper.

- My organization would rather pay a ransom to a hacker than invest more in security because it is cheaper.

Business Model Ransomware

1) PATCH, PATCH, ... PATCH!
2) BACKUP & RESTORE — TO KEEP ONE OFFLINE
3) AWARENESS
4) KNOW YOUR NETWORK
5) KNOW YOUR ENEMY
6) LIMIT & MANAGE ADMIN PRIVILEGES
7) DETECTION & ENDPOINT CONTROL
CISO 5.0 ... the Super Hero?

There is no good or bad - the Role of the CISO has to align with the business needs!
HOLISTIC CYBERSECURITY STRATEGY ENABLES THE DIGITAL TRANSFORMATION
We translate our clients’ Business Strategy into secure Architectures which encompass People, Process and Technology.

**Cybersecurity Consulting Services**

| Cybersecurity Strategic Services (Security Strategy) | Cybersecurity Architecture & Design Services (Security Controls) | Cybersecurity Analysis Services (Security Controls Validation) |

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Today 6pm CET – Japanese Evening Reception

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