

Identity High Availability

**Bedrohung durch Cyber-Hijacking
Business Continuity für die Digitale Identität**

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Typisches Einfallstor

Vulnerabilities Most Exploited by Cyber Attacks

Most commonly exploited applications worldwide as of 1st quarter 2018



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@StatistaCharts

* Apps using Java Runtime Environment (JRE).
** Applications that work with PDF files.

Source: Kaspersky Lab via Statista

statista

Verbreitungs Geschwindigkeit

Russia Has the Fastest Hackers

Average breakout speed of hackers from selected countries, 2018*

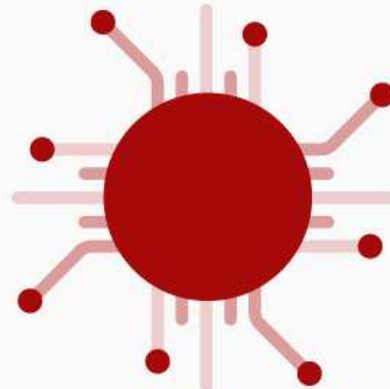


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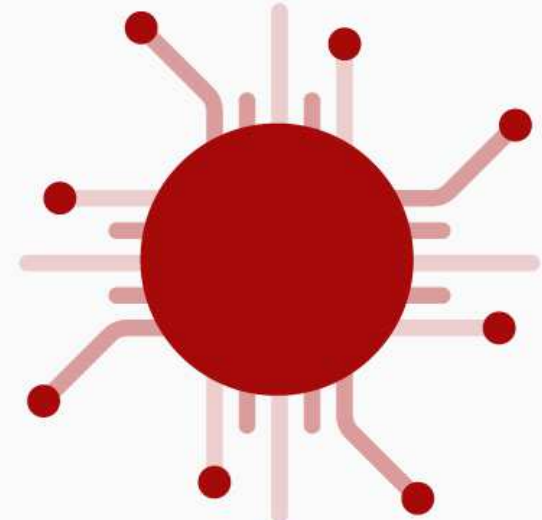
Russia

02:20:14



North Korea

04:00:26



China

* CrowdStrike analyzed more than 30,000 attempted breaches in 2018 for this report. Breakout speed measures the amount of time it takes for hackers to expand their access or jump to other machines after the initial security breach.



@StatistaCharts

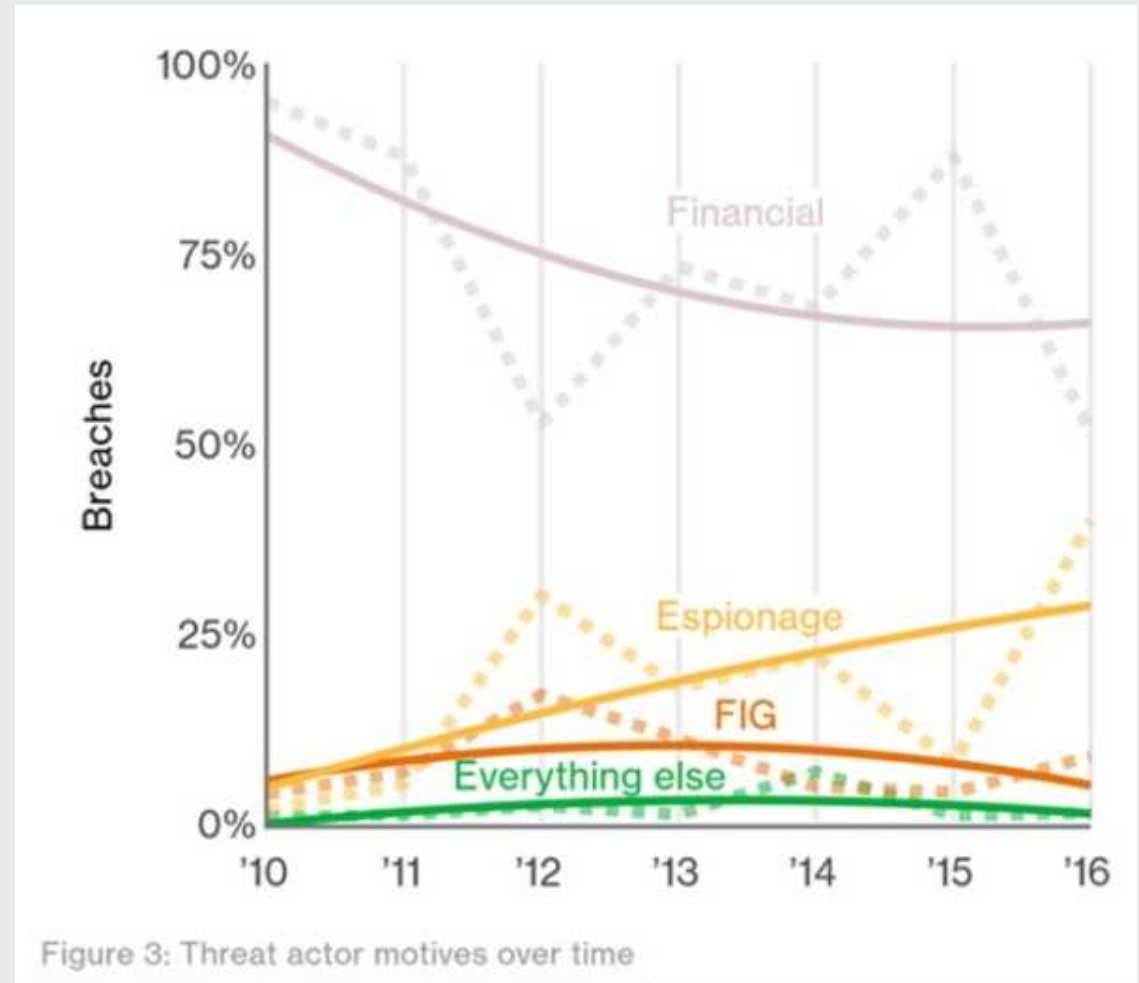
Source: CrowdStrike

statista 

Motivation der Angreifer

- Finanzieller Vorteil
- Spionage
- FIG (Fun, Ideologie, Groll)
- Sonstiges

→ Hijacking / Erpressung

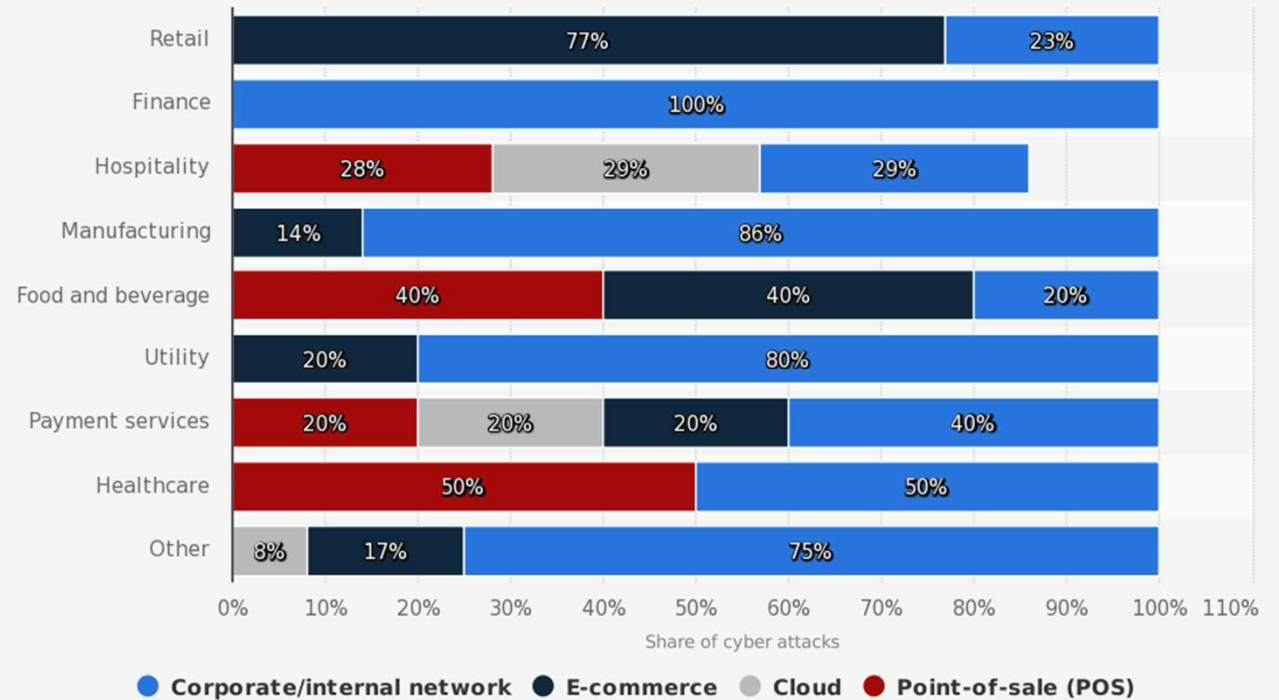




we protect identities.

Pimäre Angriffsziele

IT environments targeted by cyber attacks worldwide in 2018, by industry



Source
Trustwave
© Statista 2019

Additional Information:
Worldwide; Trustwave (SpiderLabs); 2018; Trustwave forensic investigation victims, wider industry metrics may vary



Deutscher Bundestag erfolgreich angegriffen

Was ist passiert?

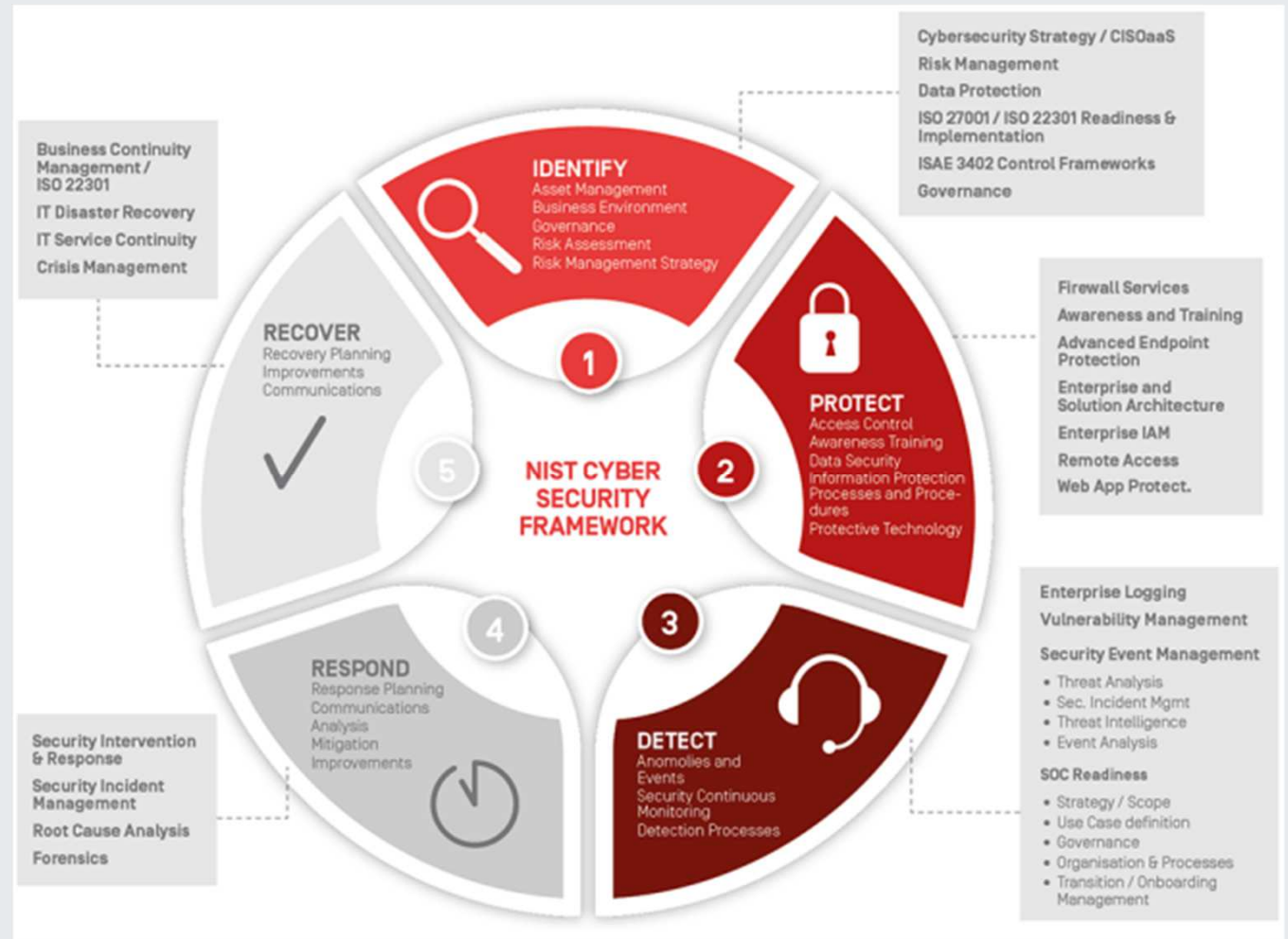
- + Die Server vom Deutschen Bundestag mit Malware infiziert (2015)
- + Voller Netzwerkzugriff mit administrativen Rechten
- + Alle *.doc und *.pdf gesammelt und gestohlen
- + Sämtliche Systeme während Sommerpause neu aufgesetzt
- + 20.000 Anwender betroffen

Daten Diebstahl

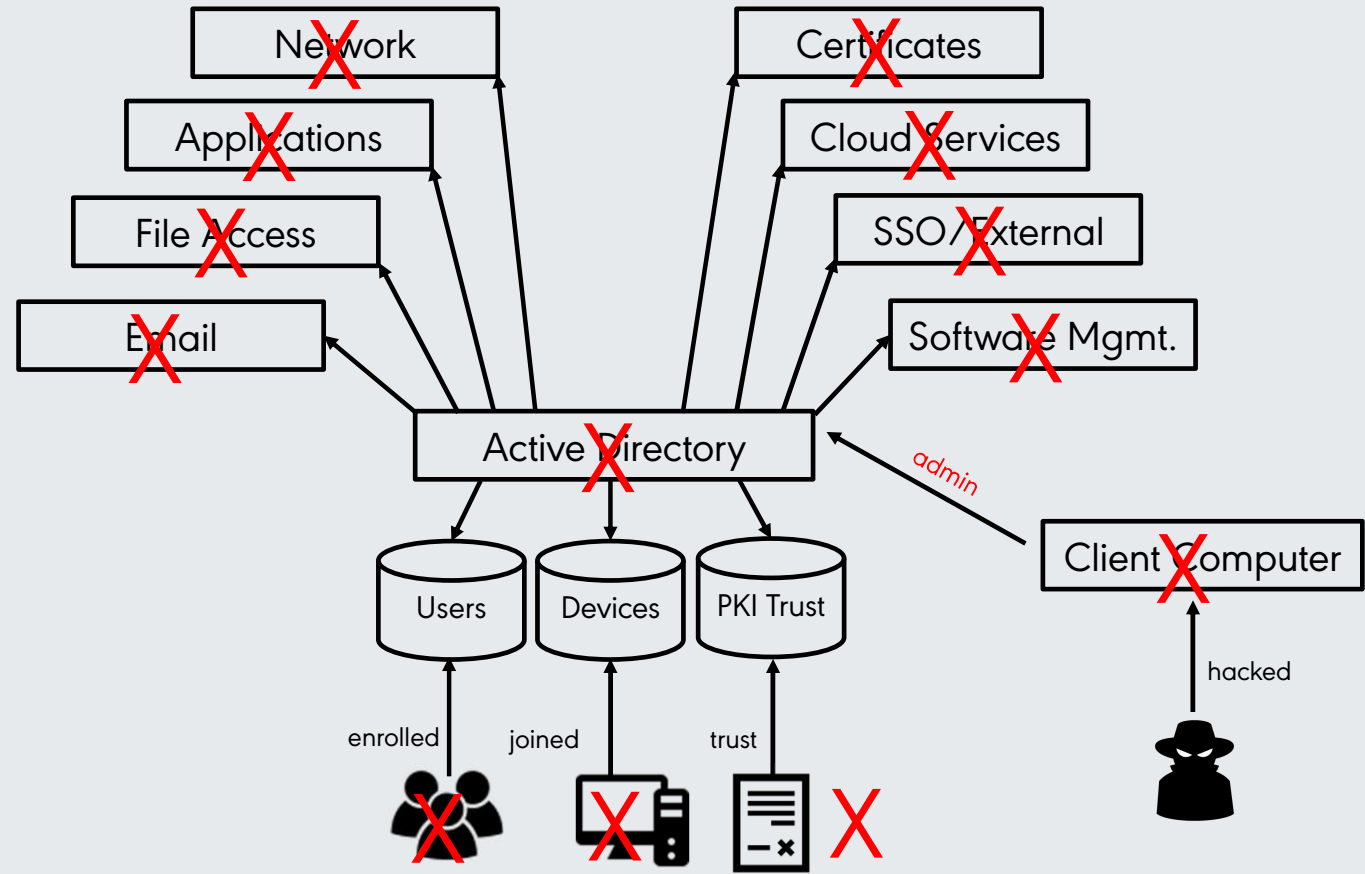
Business Continuity

NIST Standard

- Risiko erkennen
- Schutzmaßnahmen (z.B. 2FA)
- Abweichungen erkennen (z.B. Delta Checks)
- Gegensteuern können (z.B. selektive Sperren)
- Wiederanlauf (Backup-Konzept!)



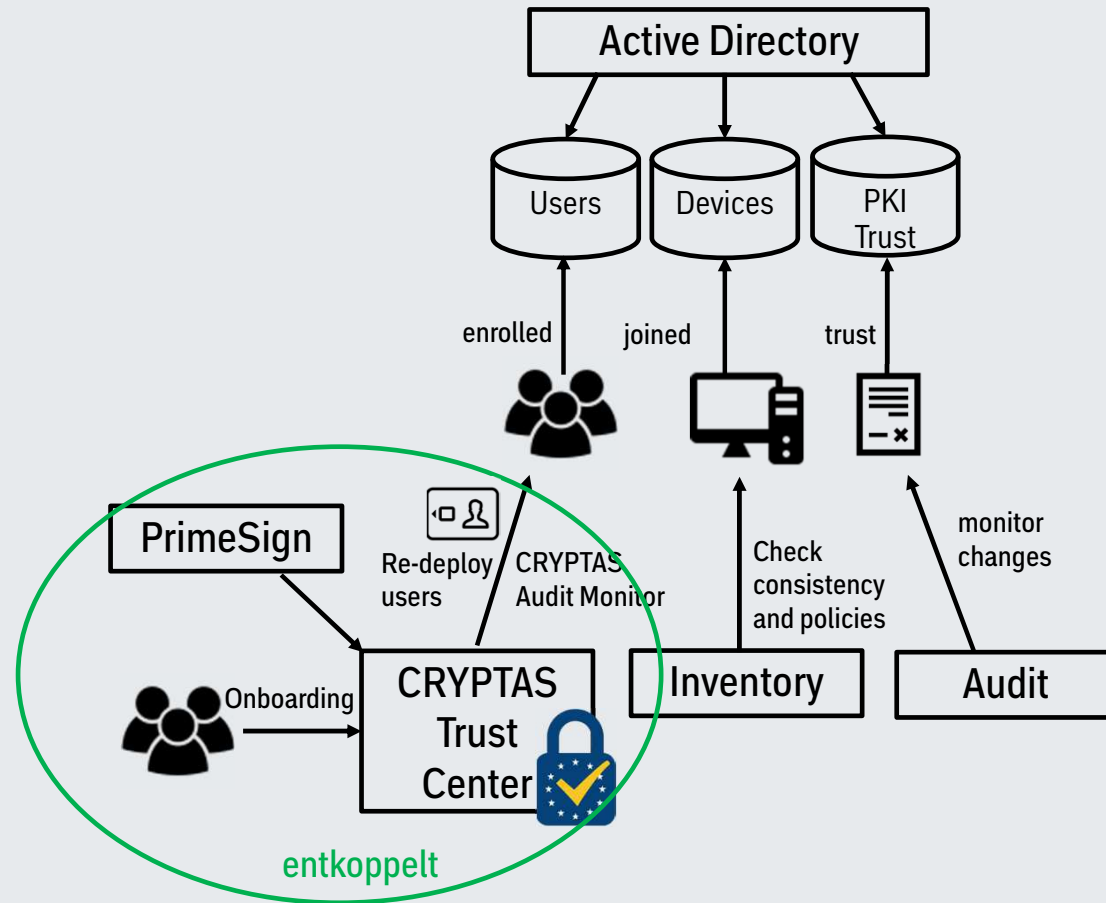
Typische Abhängigkeiten



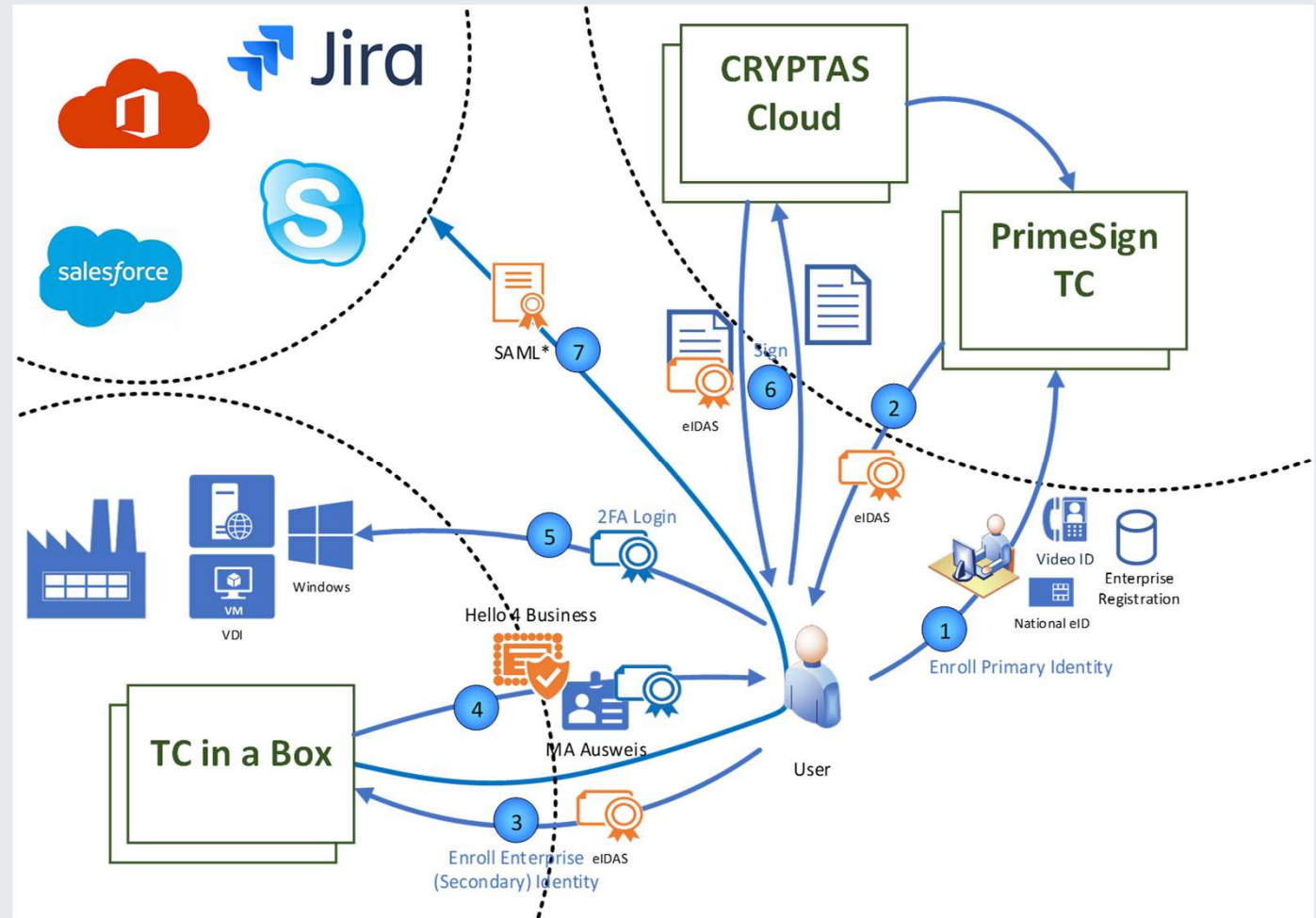
Primäre Identität etablieren

- PKI Trust Stores überwachen
- Entkoppelte Rechteverwaltung
- Entkoppelte Digitale Identitäten
- Primäre Identitäten
+ Derived - ID/Credentials

-> Identity is mission critical!



Identity Deployment





About CRYPTAS

SPECIALIST FOR PKI, STRONG AUTHENTICATION, ENCRYPTION, LAWFUL SIGNATURES AND DIGITAL IDENTITIES

Own solutions around Digital Signatures, Virtual Smart Card, clientless Smart Card access, Self-Service Processes, PKI, OCSP++...

CONSULTING, DEVELOPMENT, INTEGRATION, SERVICES

Topics: eSignature, Smart Cards, PKI, FIM, Key Management, HSM, Encryption...

WIEN, GRAZ, DÜSSELDORF AND STOCKHOLM

Successful in crypto-business since 2003; main markets D/A/CH, Typical Project Size: 1.000 to 300.000 Users

> 40.000 CUSTOMERS / ~100 COUNTRIES /

Verticals: banking, insurance, energy provider, health, industry, government...

Trust Center: Millions Transactions per Day / Thousands Enrollments per Day

eIDAS TRUST CENTER

Qualified Trust Center with focus on Qualified Onboarding, eIDAS Online Contracting, Video-Legitimation, eIDAS Remote Services



Solution Portfolio

POST QUANTUM READINESS

Krypto-Agility, Long time encryption (> 30 years), Post-Quantum Cryptography, Dual Signing, Dual PKI

MANAGED DISTRIBUTED VIRTUAL TOKENS

End-to-End Encryption, Client-Authentication, IoT-Use-Cases, Mobile Platform Support, TicTok Virtual (VSC), Key Distribution Manager

SMART CARD KEY MANAGEMENT

Non-Repudiation, Self-Service-Processes, Offline Key Usage, 2-Factor-Authentication, Key/Credential Management, TicTok Card, OTP Emergency Credentials

TRUST CENTER APPLIANCE (PKI UND REMOTE SIGNATURE)

Secure authorization processes, Data Security / Encryption, Hardware Security Modules, PKI/CA/OCSP, Qualified Remote Signing Appliance, PrimeSign Signature Server, TicTok Remote

SECURE ON-BOARDING

Qualified user attributes, Qualified Enrollment, eIDAS Online Contracting, Video-Identification, Identity Auditing, Bailor Processes, eIDAS Remote Services