OT-Umgebungen (nicht nur) für Remote-Connections einfach und sicher zugänglich machen

PrivX for OT environments





Business at Risk?

Attacks are real



Vestas.





MAERSK



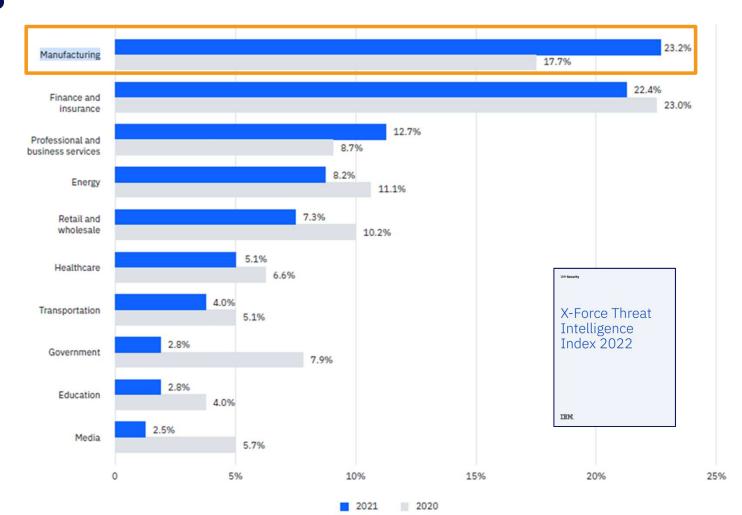






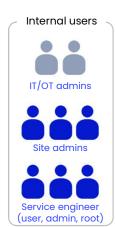


Figure 20
Breakdown of attacks on the top 10 industries, 2021 vs. 2020 (Source: IBM Security X-Force)



Typical Use Cases

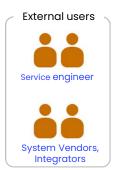
USERS, APPLICATIONS



Are responsible of global infrastructure and policies.

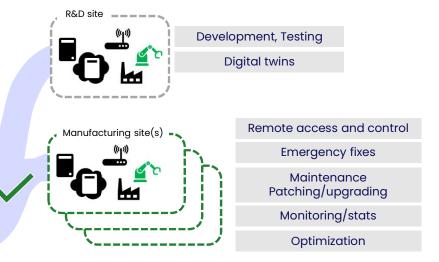
Are responsible of site safety and granting access only to authorized users. Want see what is going on and what was done?.

Needs to connect systems in test and production environments using different types of applications.



Needs to connect systems in test and production environments using different types of applications.

SYSTEMS, RESOURCES



Servers, network appliances, applications, HMIs, PLC, etc.



Challenges for Easy and Safe Access Interactive & M2M

Risks

- Safety hazards
- Quality issues & machinery break down
- · Operational service downtime
- Intellectual property and customer data theft & Loosing reputation as a company



Compliance

- Security audit failure related to Industry regulations
- Lacking up-to-date security audit reports
- Incomplete access governance



Productivity

- Security slows down operations
- Time and labour intensive access provisioning processes
- Too many different systems to maintain
- Secure remote & 3rd party access



Security

- Shared Credentials in the wrong hands
- No visibility: Who/what has access to what & when?
- Passwords and secrets are "leaking" outside
- Security system by-pass





Challenges for Easy and Safe Access Interactive & M2M



Reduce risks

- · Prevent unauthorized access
- Uniform, single point of control to all machine and human access
- Prevent harmful consequences with incorrect access rights



Ensure compliance

- Comply with industry regulations
- Monitor, audit and record sessions for forensics and integrate with SIEM
- Integrations to HR and IT solutions



Increase productivity

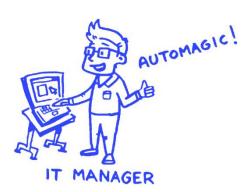
- Reduce the overhead of managing secrets by eliminating rotation and vaulting
- Single Sign On to all resources from one system





Improve security

- Right identity with the level of right access to the right target for the right duration
- Session monitoring and recording. SIEM integration
- Monitor/prevent by-passes





NIS 2.0 Tightens EU Requirements and Sanctions

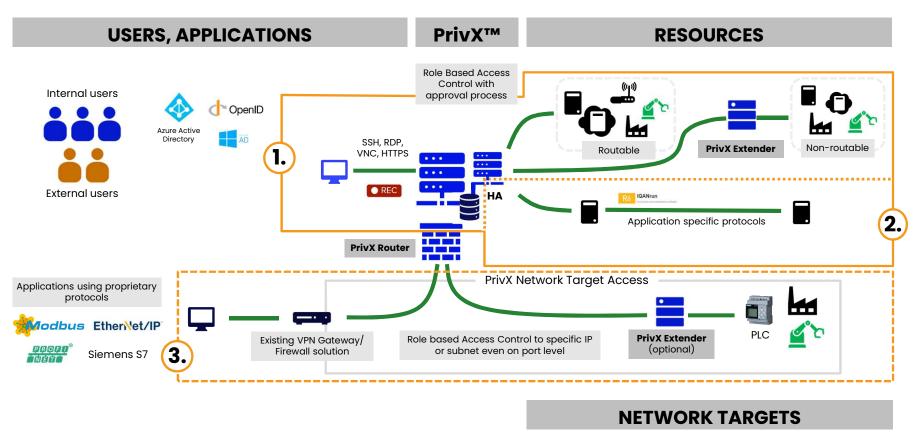
- Cybersecurity risk management policies
- Incident response
- Supply chain security
- Encryption
- Vulnerability disclosure
- Swift reporting in order to avoid the potential spread of incidents
- In-depth reporting to draw valuable
 lessons learned from individual incidents



 Modern Security Tools and comprehensive processes are needed to help companies and public entities comply with regulation, adding minimum TCO and personnel overhead



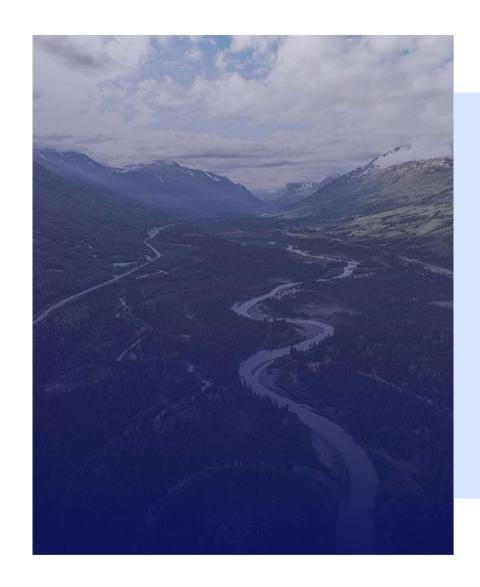
Accessing Resources and Network Targets





Customer Use Cases





Use Cases for PrivX Secure OT Access

IoT & Automation system vendors; Device & sensor access & data collection



Intelligent household device service access

- Protect service business
- No shared secrets for authentication



Sea-port infrastructure engineering remote access

- Connectivity to remote terminals running PLC systems
- Role-based access, regional limitations



What Makes Us Different for OT and IIoT?

Various point solutions are limited and complex to maintain



Remote access (SRA) is not enough



Firewalls and VPNs are revolving doors



Network and IP monitoring is contentless



Traditional PAM systems are designed for IT admins, not OT

74% 83% of data breaches start with digital keys in the wrong hands

of organizations don't have robust processes to control their digital keys

95%

of cloud breaches in 2020 were predicted to be due to customer vulnerabilities

SSH.COM offers a full stack of layered security tunnelling, encryption, and access management solutions. **PrivX OT Edition** offers:



Just-enough-access (JEA)

Just enough access to get the job done with rolebased access control and approval workflow.



Workflows and approvals

Build in workflow engine for creating approval processes and granting role permissions



Auditing and session recording

Send audit events to external systems (e.g., SIEM). Full transparency for shared accounts.



Access resources just-in-time (JIT)

"never trust, verify real-time all the time". Always synchronized with Identity Management Systems.



Move to ephemeral certificates

Gradually get rid of passwords and keys and move to short lived certificate-based authentication.



