

The industrial landscape has never been more uncertain, or more ready for digital transformation. With the need to enable remote work and team collaboration, technologies such as Cloud, Edge and IIoT not only provide new ways to enhance business performance, but also pave the way for improved business processes and procedures. Along with safety, the most critical area to address during this change is industrial cybersecurity.

# Cybersecurity by the numbers





+2100%

Increase in industrial cyber attacks over the past three years

The average number of attacks on IoT devices per month

Average time to identify and contain a data breach

Typical financial impact of a single cyber attack. Source: IBM Security

\$3.92 million

\$133.7 billion Forecasted spend on

cybersecurity by 2022

Source: Gartner

Rapid advances in technology have seen a corresponding Cybersecurity requires a proactive stance involving rise in cybersecurity risks. Yet according to most experts, the entire organization. Balance needs to be achieved between mitigating risks and enabling new business

industrial systems are not protected well enough. With many underestimating the risks and impact a breach may have on their business.

initiatives. Focus not only on training staff but on selecting appropriate technology partners.

### As an established leader with over 50 years experience delivering

The safety and security of your data is our top priority.

industrial software portfolio, we recognize that your data demands a stringent cybersecurity posture and the highest set of operating standards.

## The proof is in the portfolio



100,000+ sites globally

Monitoring

20 Billion

Deployed in

10+ Trillion industrial transactions per day





industrial parameters

of information per year Key security considerations for operational technology

Storing and managing

12,000 TB



Apps, analytics,

and cloud services

Security must be integral to

design and fundamentally built

into the services that support

the operation of your systems.

# End-to-end security

control

We incorporate security

protection into our system design

and development process, including

rigorous testing and validation.



We build security from the ground up – using components

devices

that meet recognized standards,

and include enforced encryption.



production and waste



impact







in loss of life



property

of intellectual







reputation loss

### Your cybersecurity checklist Cybersecurity is a multi-faceted discipline requiring a proactive approach across the business.

Best-prepared businesses report a focus on the following key areas. People



#### Educate on dangers of USBs, malware, phishing

 Make your people active cybersecurity partners

Invest in security training for staff,

contractors and 3rd parties

Network Ensure a unidirectional gateway

between IT and OT systems

Install anti-malware solutions

Run vulnerability scans and issue patches regularly

and legal policies



### for industrial end points **Partners**

- Select vendors that will partner with you to protect your critical data
- Determine where your data will be collected and stored

Understand their security, privacy

Cybersecurity checklist for your vendor When it comes to cybersecurity, who you partner with is crucial. Software vendors

Where will my data actually reside?

#### Ensure cross department buy-in e.g. from management, IT, security

**Processes** 

 Cover a range of activities including security audits and vulnerability scans

Develop, document and validate your cybersecurity program

- Devices Change your IoT device passwords
  - from the factory default Extend your security and password policies to mobile devices

#### Conduct regular intrusion testing and anomaly detection on your devices





### or IIoT partner here are some key questions to consider. Physical security

play an important part in your cyber defence strategy. When considering a cloud

• Where and how will my data be captured, stored and used? Data security How is your information protected – at rest and in motion?



# How does your supplier deal with network outages?

Application security • How do they handle authentication, authorization and account management?

• Do they offer a flexible, scalable solution?

· Where are their cloud services physically deployed?

Does your vendor support unidirectional data transfer?

What is their approach to identity and access management (IAM)?

Can they identify abnormal behavior and catch anomalous activity?

What procedures are there to detect and isolate suspicious activity online?

- Continuous monitoring • Do they have proactive monitoring and active security policies in place?
- Do they have a proactive program of external security audits? How do they deal with ongoing compliance with regulations e.g. GDPR? • Do they have a published security statement that you can read?

Projects and delivery

4,600

Food and beverage

Security assessments



550+

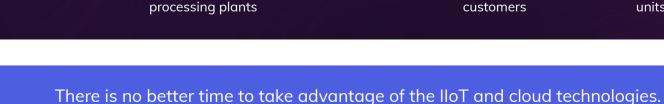
Refineries

- Are their project delivery teams certified to global standards such as CMMi Level 5, or ISO 9001? Do they have a Computer Security Incident Response Team (CSIRT) ready to mobilize? Do they have strategic partnerships with key security experts such as Cylance or Claroty?
- We are dedicated to earning and retaining your digital trust. That is why we transparently publish our security statement. View it for yourself at trust.aveva.com

Counted on by the world's most trusted industrial leaders

9/10

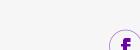
Shipyards



Speak to an expert

Digital transformation is a journey that allows you to transform your existing automation investment into an improved way of doing business.





3,200+

Infrastructure

1,000+

Power generation

units





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