

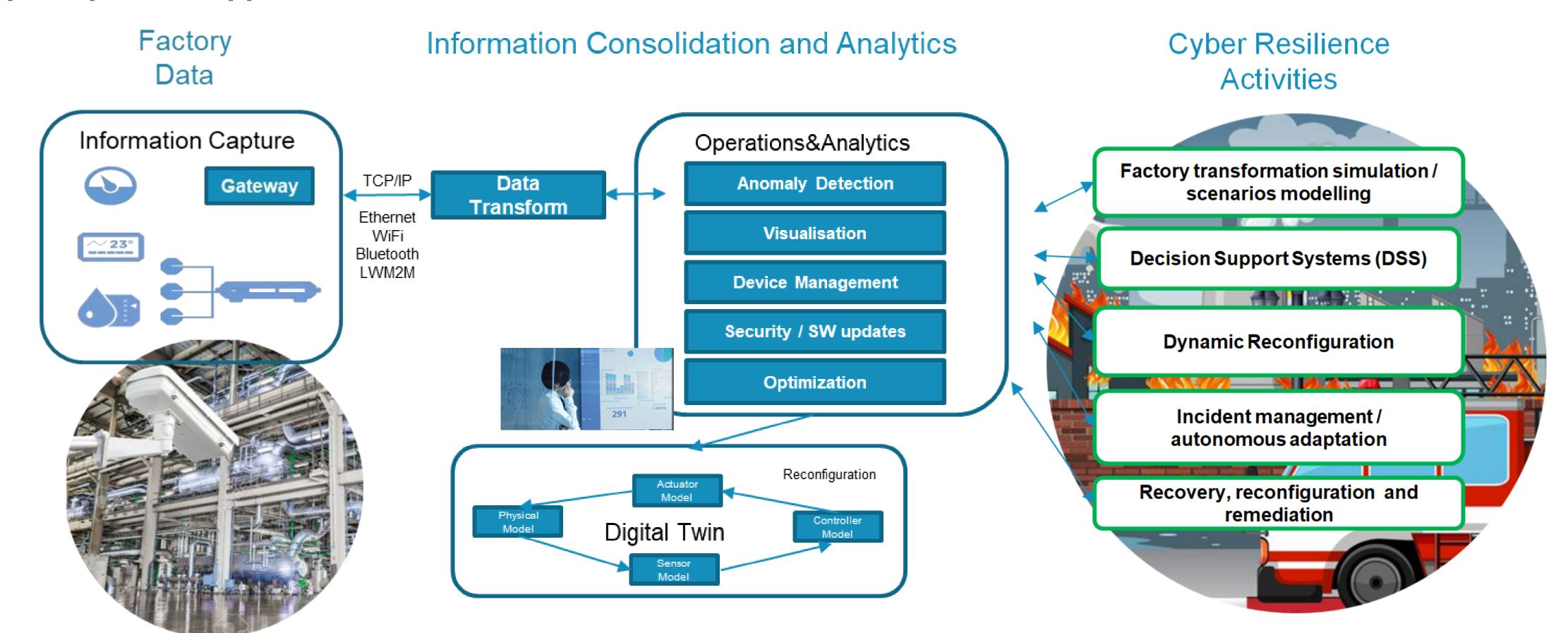




Cyber-resilience capabilities – Introduction of the approach in Cyberfactory #1

The development of Cyber-resilience capabilities goes beyond risk management and tactical technical solutions, requiring a holistic view of systems and processes to prepare for the reality of cyber incidents.

These principles are applied in the FoF environment.





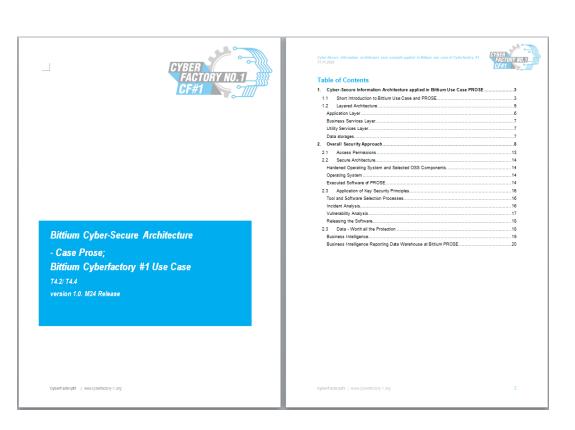
Cyber-secure networked supply chain and information architecture

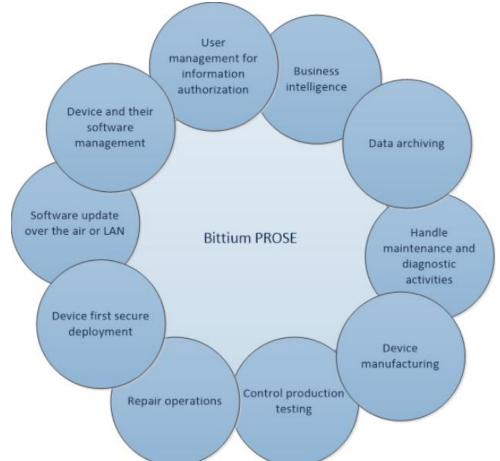
Overview of Bittium Use Case in Cyberfactory#1

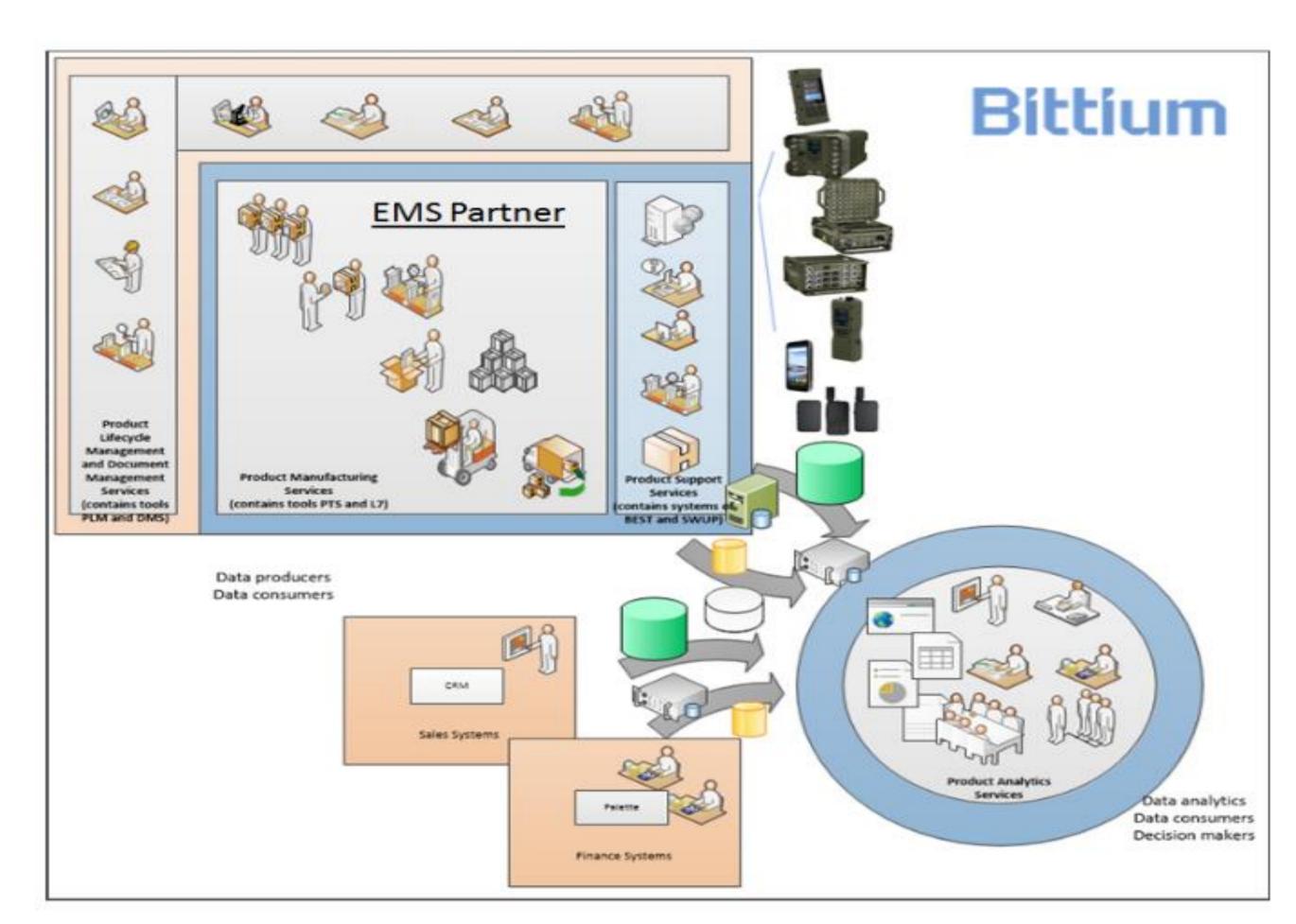
Goal is to create:

- consistent and secure information architecture,
- processes and information tools,

which support digital partnered manufacturing and deliveries.

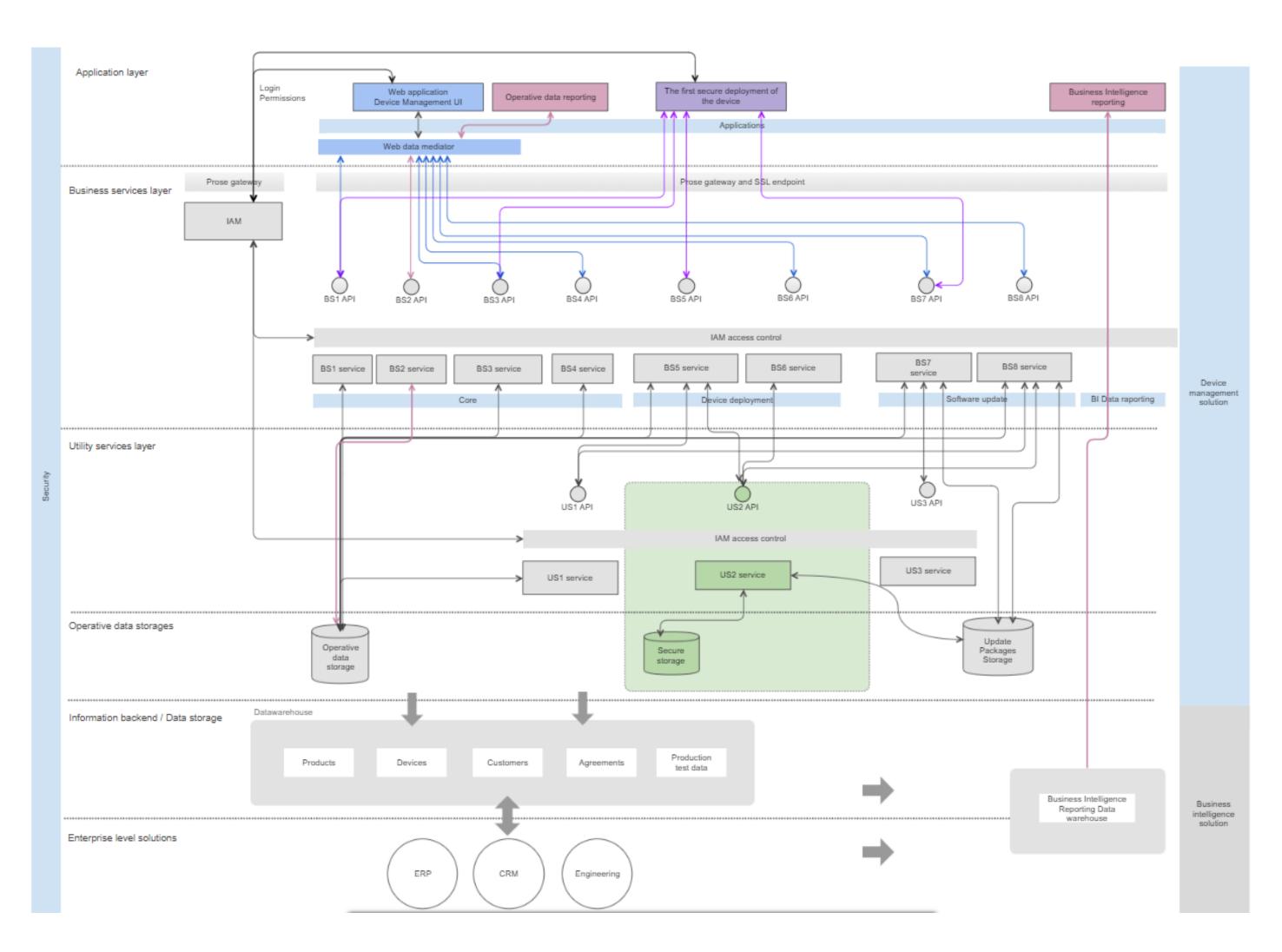








Overview of Bittium PROSE architecture – Simplified View



- Bittium PROSE (Product Services) is a solution for Device Life Cycle Management.
- Bittium PROSE is an eco-system: with PROSE it is easy to manage devices and their software, handle maintenance and diagnostic activities, control manufacturing and production testing and test events in repair operations.
- PROSE handles business intelligence level and operative level reporting.
- It contains user management for information authorization.
- Also the first secure deployment of devices, commissioning, is possible with help of PROSE.



Aspects to Build Cyber Resilience in the Use Case Information Architecture



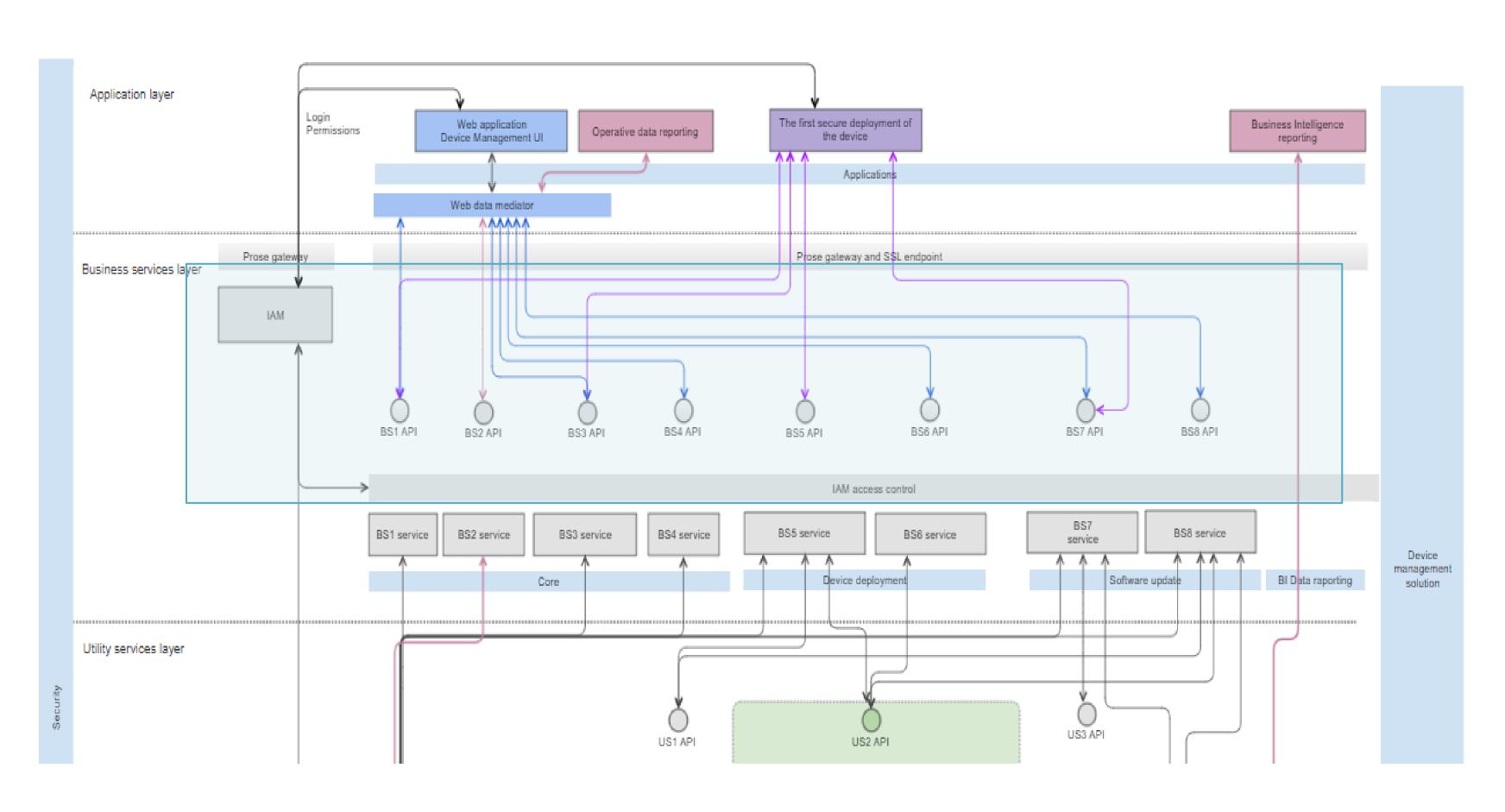
Access & Trust Mgmt; Build Identity and Access Management solution architecture.

Behaviour Watch Principles • (Human/Machine) Behavior Watch; Deploy Incident analysis, Vulnerability Scanning, Anomaly Detection and applicable SIEM functionalities.

Cyber Resilience Capabilities •Connection of the architecture, digital twin of the system and simulation environment (with help of Airbus CyberRange in CF#1) - Simulation of the weaknesses, capabilities with help of various Cyber frameworks.



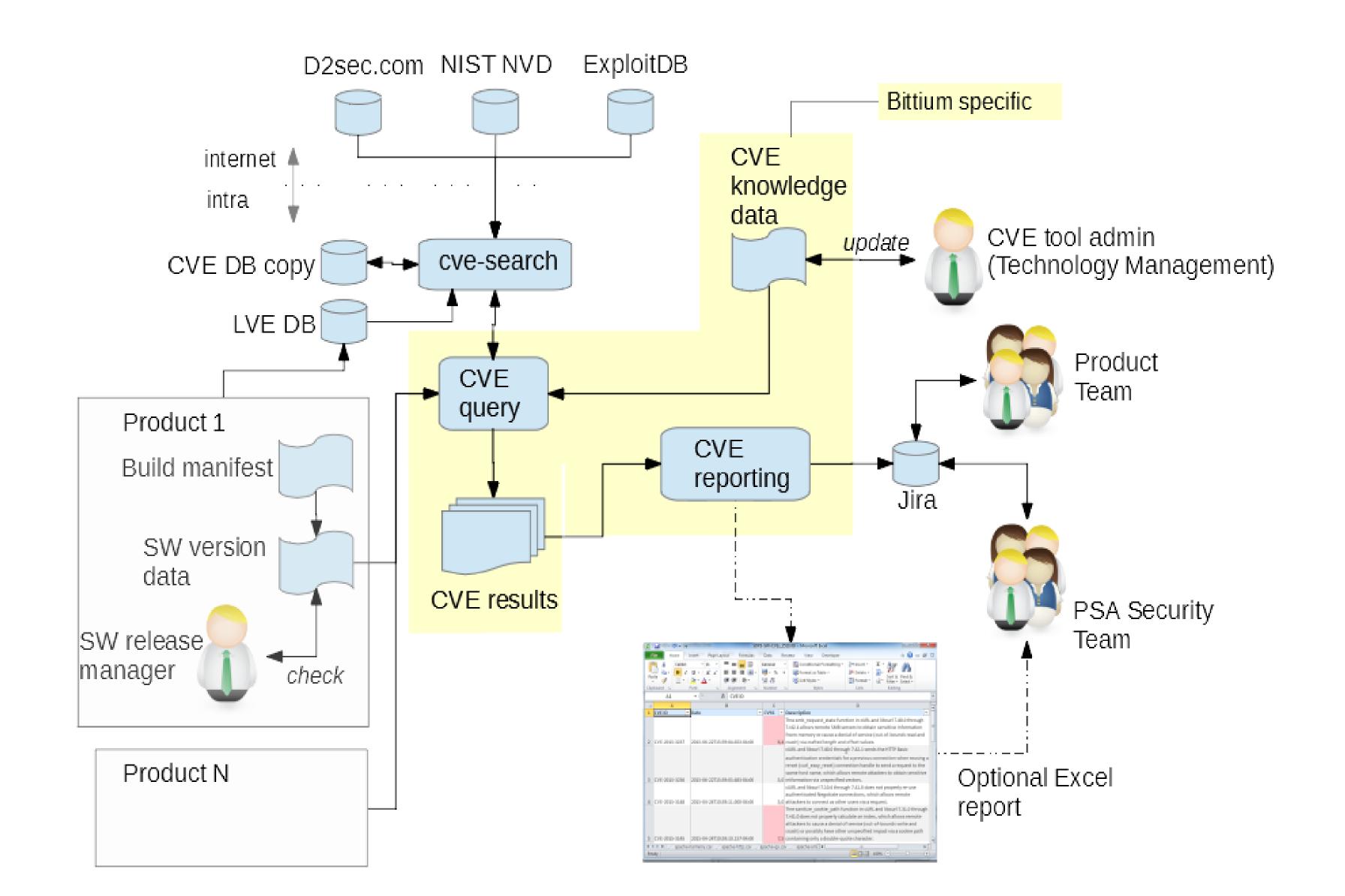
Human/Machine access & trust management – Identity and Access Management



- Permission control is an integral part of Bittium PROSE service architecture.
- Each service checks the service API caller permissions from IAM based on the token obtained by the application before proceeding to call the services.
- Only the callers with correct permissions for executing the requested service call are served.
- All other calls are blocked, logged and error code is returned to the caller.

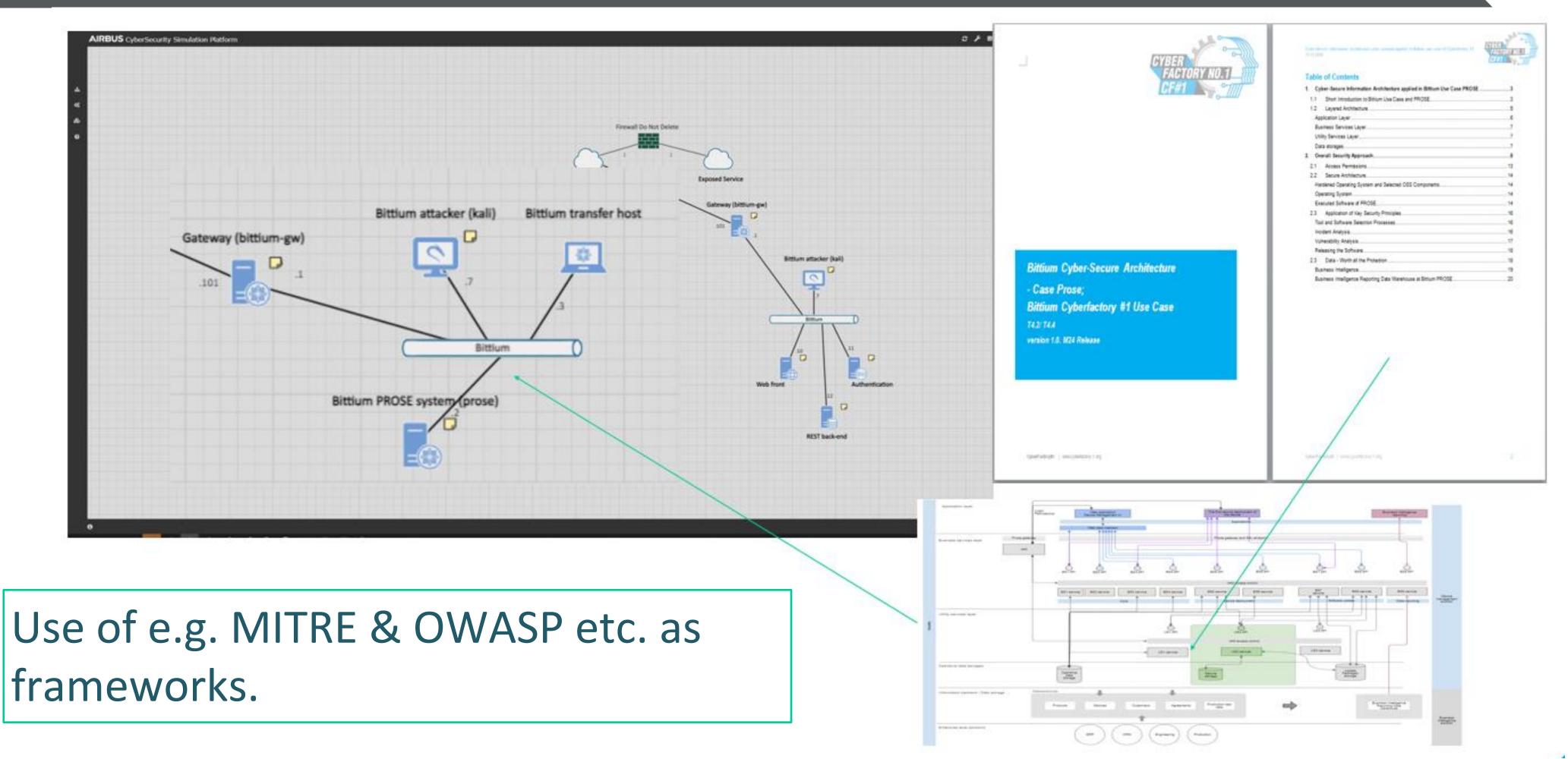


Example of CVE Process applied in the Use Case





Cyber-resilience capabilities Simulation of Cyber Attacks with help of Airbus CyberRange



Connection of the use case architecture, digital twin of the use case and simulation environment (with help of Airbus CyberRange).



