Smart Manufacturing User Stories

The Factory Security and Service Assurance User Story

As the CISO for my factory,

I need to be able to order security and service assurance services,

so that I can identify and mitigate security threats automatically.

To do this I need to be able to order multiple resources (e.g. robotic arms, conveyor belts, surveillance cameras) and services (e.g. ZTO, Self-Healing Networking (SHN), Intent-Based Micro-Segmentation (IBMS), and other forms of intrusion detection and response) from different vendors, and configure them in a shopping basket.

I know that I am successful when the detection systems identifies the security threat, the IBMS quarantines the attacker device, and the response systems addresses the security breach automatically and bring the service back the correct level of trust as soon as possible.

The Factory Hybrid 5G User Story

As the factory customer,

I need to be able to order and automatically provision public and private networks and private-public network access rights for my factory,

so that I can connect my private network to the public network and control network accessibility across the two.

To do this I need to be able to order multiple resources (e.g. virtualised MECs, radios, SIMs, 5G CPE) and services (e.g. SD-WANs, 5G, firewalls and access control systems) from different vendors, and configure them in a shopping basket.

I know that I am successful when I can manage and control what my company personal devices and visitor personal devices can access when inside the factory, and what my company personal devices can access when outside the factory.

The Smart Production Line User Story

As the smart factory customer,

I need to be able to order and configure a flexible smart production line,

so that I can setup and dynamically change my production lines to accommodate the autonomous manufacture of different products.

To do this I need to create a production line with zero-touch, enable manufacturing devices to operate their own wallets, enable manufacturing devices to order resources and sell services, and allow manufacturing devices to by dynamically configurable.

I know that I am successful when all the production lines components are automated and trackable securely, and can trade with each other, without human interaction.