

# SIAS Solution Overview

*Powered by Sightline  
Secured by UNISYS*

**UNISYS**

Securing Your  
Tomorrow™



**SIGHTLINE**  
SYSTEMS

# Industry 4.0 Introduces New Challenges

New Connections Create New Points of Access

## New Protocols

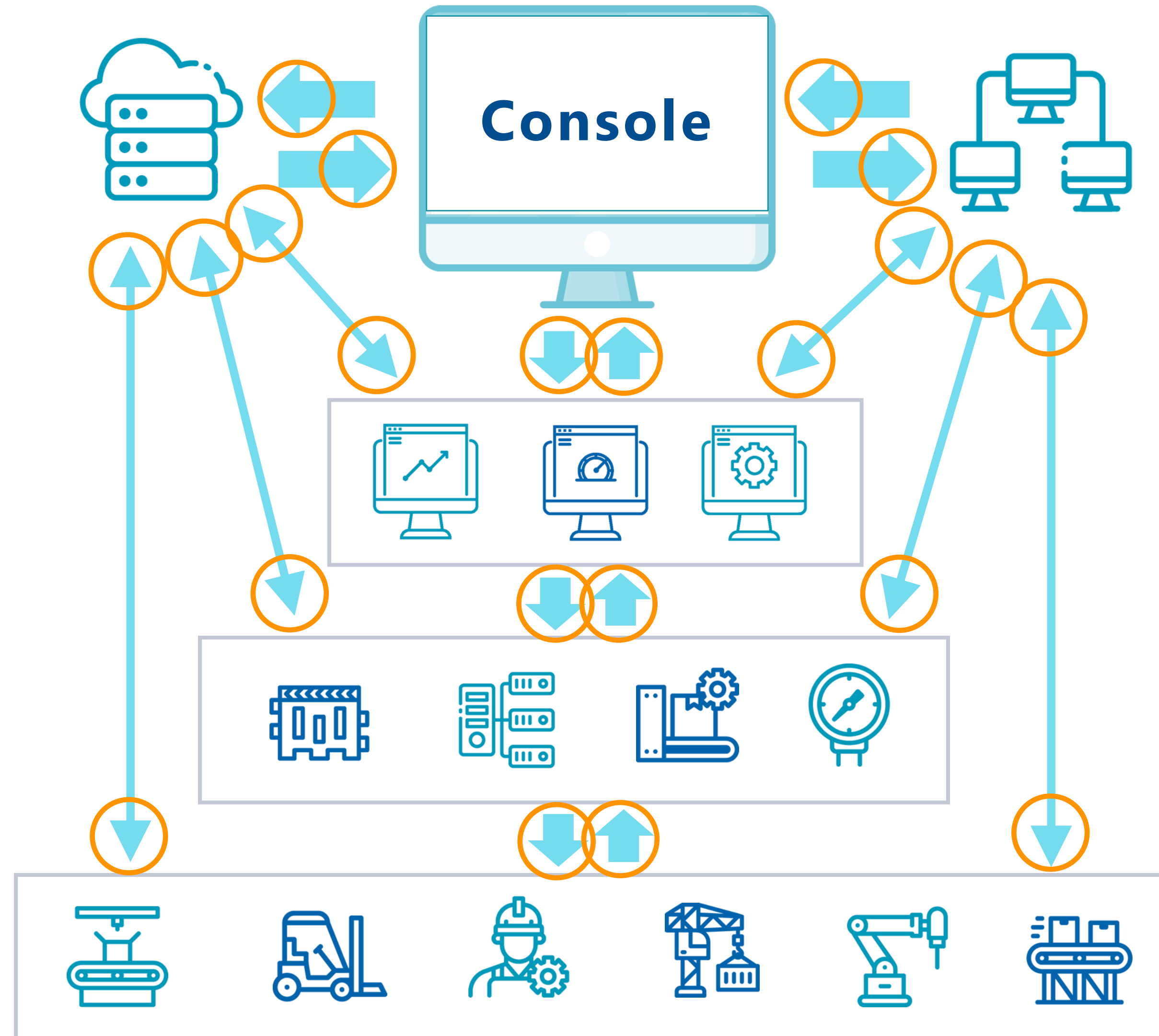
New communications protocols to combine IT & OT

- Fieldbus
- Modbus
- RESTful API
- MQTT
- Azure
- Ethernet/IP

## Various Interfaces

Both wired & wireless interface conversions

- Serial to Serial
- Serial to Fiber
- Fieldbus to Fiber
- Ethernet to Fiber



## Vulnerabilities

With connected systems instead of physical isolation, OT is at risk from IT network concerns and need for secure:

- Firewall
- VPN
- Secure WiFi
- EE8023
- LTE

## New Networks

Merging OT and IT requires new integration to complete sensor-to-cloud & device-to-cloud interconnectivity:

- Local Area Network (LAN)
- Wireless Local Area Network (WLAN)
- Wide Area Network (WAN)

# The urgency of the call for secure smart factory analytics

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In 2019, Winnti malware attacked many of German leading industrial companies as per reports : [Link](#)

- A Trojan initially gained access to the IT network, then pivoting to OT network
- Commodity espionage malware was deployed specifically targeting exfiltration the data on both IT and OT networks
- The attack specifically targeted large industrial manufacturers

In 2020, Belgian industrial manufacturer Picanol reported a major industrial ransomware breach: [Link](#)

- Operations were halted for two days while attack was resolved
- The attack specifically targeted large industrial manufacturers

# FLORIDA WATER SYSTEM HACK

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On February 5, 2021 a user attempted to change chemical amounts in water

- Access gained via teamviewer
- Attempted to poison water supply
- Shared password
- Lack of security protocols around SCADA system



<https://us-cert.cisa.gov/ncas/alerts/aa21-042a>

# RANSOMWARE IMPACTS US PIPELINE OPERATIONS

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In March 2021 Colonial Pipelines suffered a Ransomware attack

- A spearphishing email initially gained access to the IT network, then pivoting to OT network
- Commodity ransomware was deployed, encrypting the data on both IT and OT networks
- This prevented human operators from accessing HMI's, data historians and polling sensors
- Operations were halted for several days while attack was resolved



# What Is SIAS?

Sightline EDM & UNISYS *Stealth* Combined

**Sightline EDM**

**UNISYS Stealth**

Real Time, Seamless Data Collection  
& Monitoring



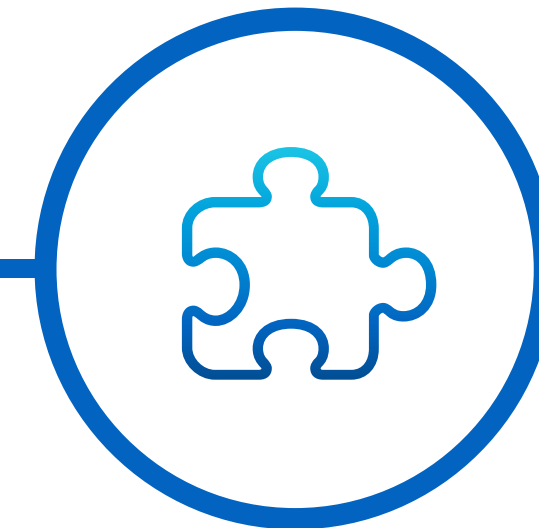
Cloaking: Cloaking Of All Endpoints  
& Sensitive Data



Easy to Use Smart Analytics &  
Custom Anomaly Alerts



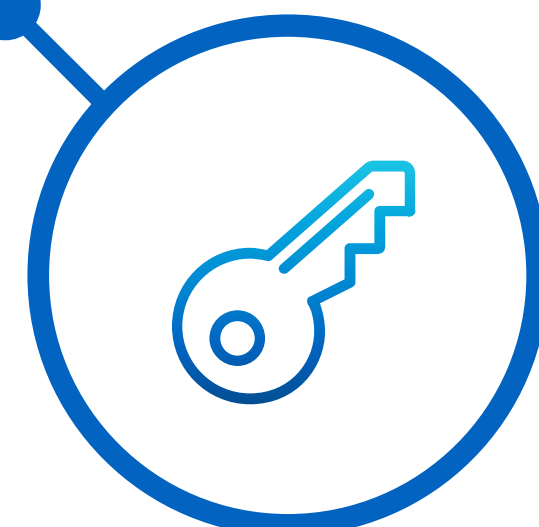
Isolation: Dynamic Isolation Of  
Potential Threats



Predictive Forecasting & Root  
Cause Analysis



Zoning: Cryptographic Zoning  
& Data Encryption



**ANALYSIS**

**SECURITY**

**SIAS**

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# Q&A and Next Steps

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