

DIA and Sentry Cybersecurity Devices

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DIA (DOME Interface Appliance)



Sentry (for edge devices)

PRODUCT OVERVIEW

DIA—Description

The DIA (DOME Interface Appliance) is a local management and authentication device that is used for a DOME (Device Ownership Management and Enrollment) installation. It helps to form a secure enclave that implements a NIST-compliant Zero Trust framework that protects automation and control devices that would otherwise be susceptible to cyberattack. Communication from any device not authenticated to participate in the secure enclave will be rejected and have a corresponding alert generated.

DIA—Key Features

- **Manages Cloud Connection:** The DIA is the single connection to the cloud for all DOME-enabled and Sentry devices in a secured environment, making those devices more secure by avoiding direct internet connectivity.
- **Device Management:** Manages the participation of devices in the secure enclave and supports the secure delivery of firmware update packages.
- **Credential Management:** Automatically distributes and updates credentials for DOME-enabled devices to participate in a secure enclave, eliminating costly support from Cyber/IT staff.
- **Device Authentication:** Authenticates devices to participate in a secure enclave.
- **Data Logging:** Receives the data logs from the local DOME-enabled devices and forwards them to the DOME Dashboard for analytics, auditing, and reporting.

Sentry—Description

DOME (Device Ownership Management and Enrollment) is a SaaS-based cybersecurity solution for connected edge devices. The Sentry is a cybersecurity appliance for devices that do not have built-in security.

The Sentry enables retrofit cybersecurity by installing in front of existing devices, providing instant protection. A secure tunnel is established between the Sentry and other authorized devices, and traffic between each device is encrypted to protect the data.

The Sentry software has two versions—one for BACnet devices (which also supports additional protocols for related services), and the other for a broad range of TCP/IP devices typically used for industrial automation.

Sentry—Key Features

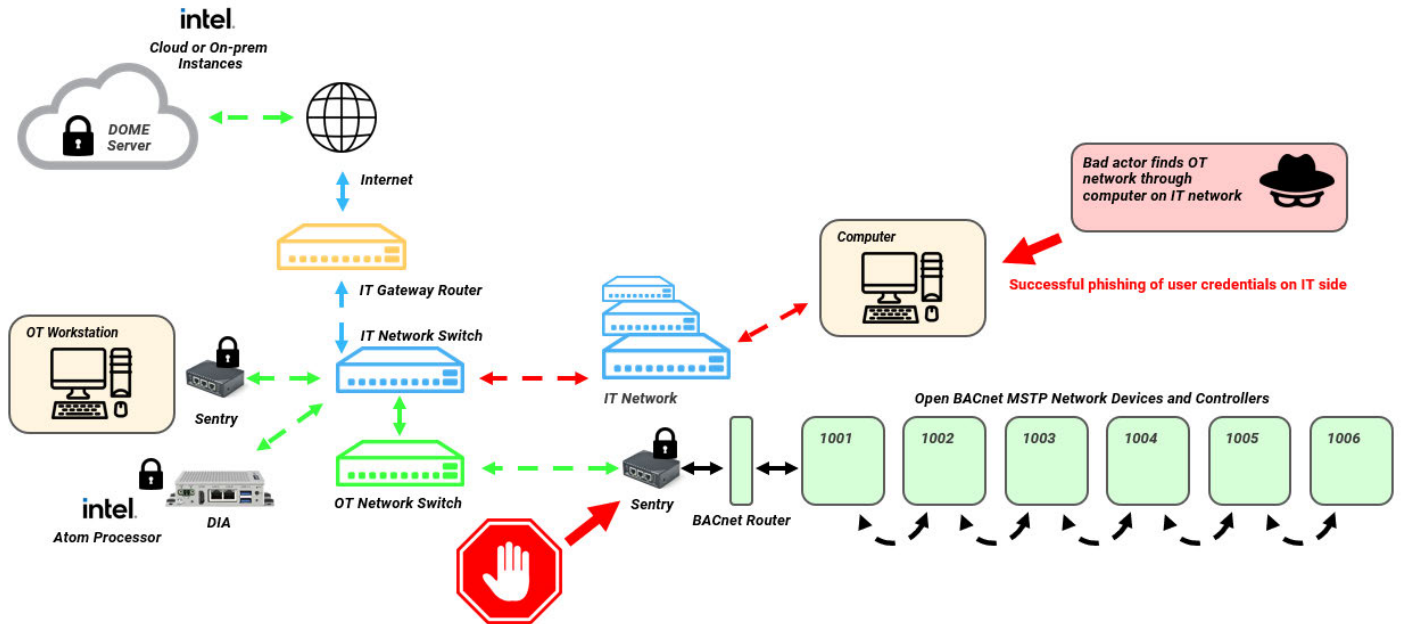
- Zero-touch provisioning for quick, simple installation
- Mutual authentication to other authorized devices
- Protocol-agnostic to support numerous applications
- Data-logging for analytics and threat detection
- Crypto-agile for future-proof security
- Secures non-BACnet traffic to BACnet/IP devices to support enterprise services

DOME Solution—Key Benefits

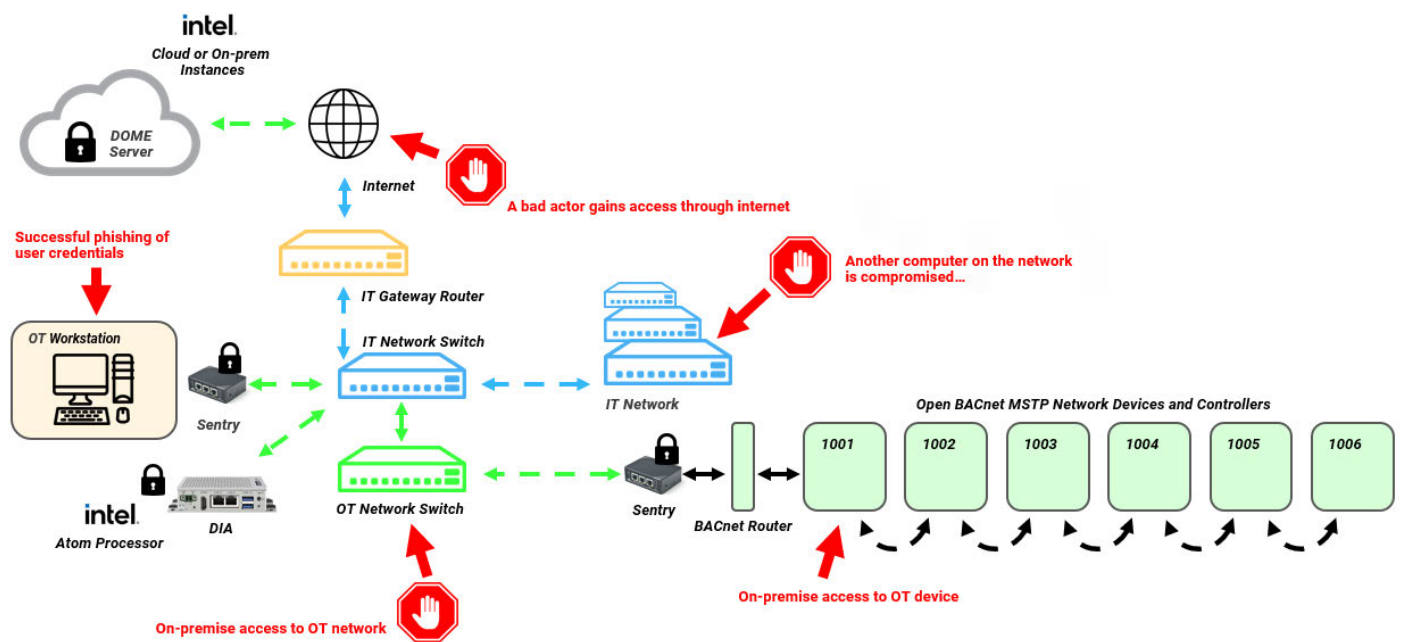
- Real-time protection stops cyberattacks before they can happen
- Supports new and existing devices
- Blocks communication from unauthorized devices
- Prevents unauthorized replacement of devices
- No IT / Cyber expertise required to deploy and use

DIAGRAMS

Example Attack Stopped by KMC Dome



Major Vulnerabilities Protected by KMC Dome



DIA SPECIFICATIONS

Enclosure/Device

Dimensions	3.94" x 2.75" x 1.18" (100 x 70 x 30 mm)
Enclosure	Aluminium housing
Ingress Protection	IP30
Cooling	Fanless
Certifications	CE, FCC, UL, CCC, BSMI

Environmental

Operating Temp	-20°C–60°C (-4°F–140 °F)
Shock Protection	50 G, half sine
Vibration Protection	2 Grms, random

Power

Power Input	10–30 VDC
Power Connector	Terminal block

Network & I/O

LAN	2 x 10/100/1000 Mbps
USB	2 x USB 3.2
Video	1 x HDMI

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DM-DIA-ADVT-2271	DOME: DIA Device, IoT Gateway; (includes one DIA with power supply and DIA DIN rail mount)
DM-SENTRY-NANO-BAC	DOME: NanoPi Sentry Device, BACnet; (inc.1 Sentry, 24 VAC supply, DIN mount, & patch cable)
DM-SENTRY-NANO-TCP	DOME: NanoPi Sentry Device, TCP; (inc.1 Sentry, 24 VAC supply, DIN mount, & patch cable)
DM-START-NANO-BAC	DOME: Sentry Starter Kit, BACnet; (includes one DIA with power supply, two BACnet Sentry devices with 24 VAC power supplies, one crossover USB cable, and two Ethernet patch cables)
DM-START-NANO-TCP	DOME: Sentry Starter Kit, TCP; (includes one DIA with power supply, two TCP/IP Sentry devices with 24 VAC power supplies, one crossover USB cable, and two Ethernet patch cables)
DM-SENTRY-USB	DOME: Crossover USB Cable for Sentry Devices
DM-SENTRY-DIN	DOME: DIN rail / panel mount for NanoPi R5S Sentry
DM-SENTRY-CONVRT	DOME: Power supply, converter, 24 VAC to USB-C for Sentry
DM-SENTRY-PS	DOME: Power supply, straight plug to USB-C for Sentry
DM-SENTRY-3-ETH	DOME: Patch cable 3ft, Cat5e

SENTRY SPECIFICATIONS

Ethernet Ports	3 x 10/100/1000 Mbps
Daisy-Chain Capable	Yes
Operating Temp	0°C–70°C (32°F–158°F)
Power	5/9/12 VDC
Power Connector	USB-C
Dimensions	68D x 94.5W x 30H mm
Quantum Resistant Methods	Optional
Protocols Supported	BACnet IP, BACnet SC, ModbusTCP, EtherNet/IP, PROFINET, MQTT, SNMP (contact Veridify for complete list)

SUPPORT

Additional KMC product information and resources are available at www.kmccontrols.com. Log in to see all available files.

The KMC Dome installation Guide is available on [KMC Dome product pages](#).

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