

Protecting the Operational Integrity of Your Connected Devices

Mitigating Cyber Events and Human Errors

Devices without device-level security are inherently vulnerable and will be eventually breached, compromising business reputation, revenues and brand. NanoLock's Device Defender protects the operational integrity of energy measurement devices, while supporting Energy Management Systems (EMS) operation.

NanoLock ensures connectd devices work as intended

NanoLock Device Defender protects smart meters, sensors, EV chargers, RTUs, and other connected devices against outsiders, insiders, supply chain cyber events, and even technician mistakes. With NanoLock protection, all modification of critical code, configuration and calibration data must be authenticated and signed, before becoming operational, including those utilizing access privileges.

Device-level prevention, zero impact on performance and functionality

Applicable to both legacy and new devices, the Device Defender has no impact on performance or functionality and minimal energy requirements, making it ideal for devices with limited resources, such as battery-operated or low-end devices.



Gain a competitive advantage with NanoLock's zero-trust, device-level protection, while creating new revenue streams and securing business reputation and brand.

THE NANOLOCK ADVANTAGE



Competitive Advantage

Provide the highest level of protection & prevent cyber events that others cannot



New Revenue Streams

New and recurring revenue streams through NanoLock's protection



Regulatory Compliance

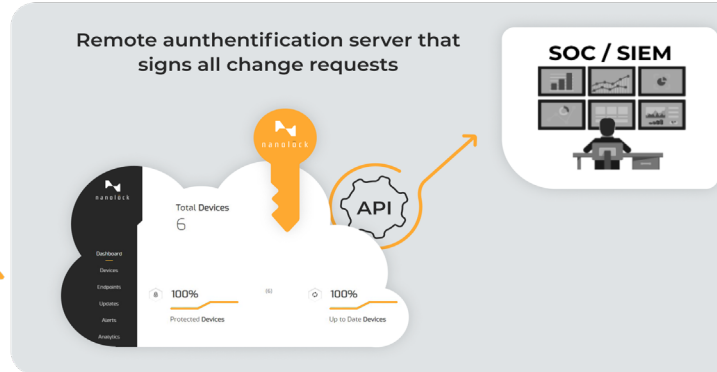
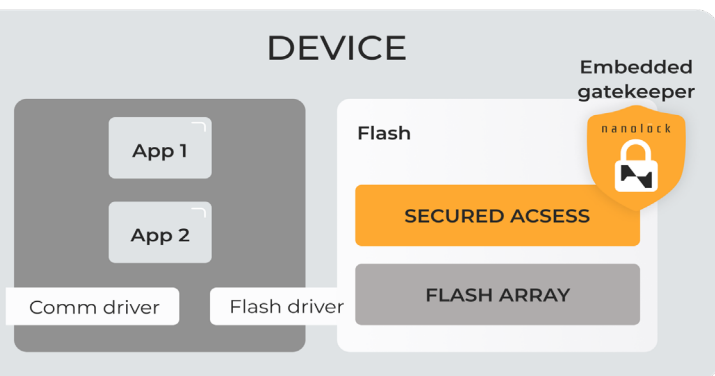
Compliance with evolving standards and regulations and customers requirements



Brand Protection

Protect business reputation, revenues and brand.

Provide the highest level of protection and prevent cyber events that others cannot



Your customers will benefit from:

- Security of supply and improved safety
- Reliable device-level visibility and management, including security posture, alerts and analytics
- Revenue and asset value protection,
- Reduced remediation time and costs

GAIN A COMPETITIVE EDGE AND INCREASE REVENUES

NanoLock Security protects power generation and energy management, water and wastewater plants as well as food & beverage manufacturing.





EV Charger Use Case



THE CHALLENGE

Securing the operational integrity of EV chargers

- Protect EV chargers from cyber events & human errors
- Provide the highest level of protection & prevent cyber events that others cannot
- Provide secured remote and local upgrades
- Zero impact on the EV charger performance
- Works on new and legacy devices

THE SOLUTION

NanoLock's Device Defender is embedded in EV chargers to provide zero-trust, device-level protection

- Blocking cyber events from trusted sources (insiders, human errors & customers) as well as outsider adversaries
- Providing secured and validated remote and local updates
- Reliable visibility and management
- Lightweight, passive prevention with small footprint and no performance hit or functionality impact
- Works on legacy and new machines

VALUE PROPOSITION

- **Competitive advantage**
- **Business reputation protection**
- **Operational integrity protection**
- **Reduced liability**
- **Regulatory compliance**

VALUE FOR UTILITIES & CPO

- **Security of supply**
- **Improved safety**
- **Protecting investment, revenue, assets value, and brand**
- **Saving remediation time and costs**



Smart Meter Use Case



THE CHALLENGE

Securing the operational integrity of smart meters

- Protect smart meters from cyber events & human errors
- Provide the highest level of asset protection & prevent cyber events that others cannot
- Comply with regulatory requirements
- No impact on performance and functionality
- Applicable to legacy & new smart meters

THE SOLUTION

NanoLock's Device Defender is embedded in smart meters to provide zero trust, device-level protection

- Protecting against outsider, insider and supply chain cyber events and even human errors
- Providing secured and validated remote and local updates
- Reliable visibility and management
- Small footprint, no performance or functionality impact, applicable even to battery operated devices
- Works on legacy and new smart meters

VALUE PROPOSITION

- **Competitive advantage**
- **Business reputation protection**
- **Operational integrity protection**
- **Reduced liability**
- **Regulatory compliance**

VALUE FOR UTILITIES

- **Security of supply**
- **Improved safety**
- **Protecting revenue, assets value, and brand**
- **Saving remediation time and costs**

Renesas Electronics Corporation is a Japanese semiconductor manufacturer and a global leader in microcontrollers, analog, power, and SoC products.

THE CHALLENGE

Securing the operational integrity of smart meters

- Protect the operational integrity of smart meters from cyber events & human errors
- Provide the highest level of asset protection & prevent cyber events that others cannot
- Comply with regulatory requirements
- No impact on performance and functionality
- Applicable to legacy & new devices

THE SOLUTION

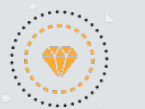
NanoLock's Device Defender – a zero trust, device-level protection - was implemented in Renesas smart meters

- Protecting against insider threats
- Providing secured and validated remote and local updates
- Reliable monitoring and alerts as well as detailed forensic data
- Small footprint, no performance or functionality impact
- Works on legacy and new devices

THE VALUE



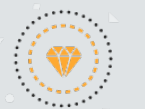
Competitive advantage



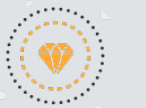
New & recurring revenue streams



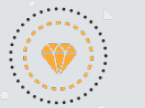
Regulatory compliance



Business reputation protection



Operational integrity protection



Improved safety



Reduced liability

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About NanoLock

NanoLock Security revolutionizes the IoT/IOT and connected device protection with a zero-trust, device-level prevention against outsiders, insiders, supply chain cyber events, and even technician mistakes. The winner of multiple prestigious industry awards, NanoLock is headquartered in Israel with offices in the US, Europe, and Japan.



Winner 2020

