JOINT SOLUTION REPORT

PALO ALTO NETWORKS AND RADIFLOW

BENEFITS OF THE INTEGRATION

- Auto-mapping of all OT assets, including their detailed inventory parameters.
- Alerts on known vulnerabilities in deployed PLCs as well as attempts to use known exploits of IT and OT devices.
- DPI analysis of all sessions detecting deviations from predefined operational policies.

THE CHALLENGE

The growing digitization in industrial automation applications introduces critical cybersecurity threats into traditional industrial applications. Such risks include targeted attacks on operational technology, or OT, as well as IT attacks that span into OT networks. These risks are especially critical to distributed SCADA networks that span multiple remote sites, where an attack can result in catastrophic disruption of national infrastructure services.

RADIFLOW ISID

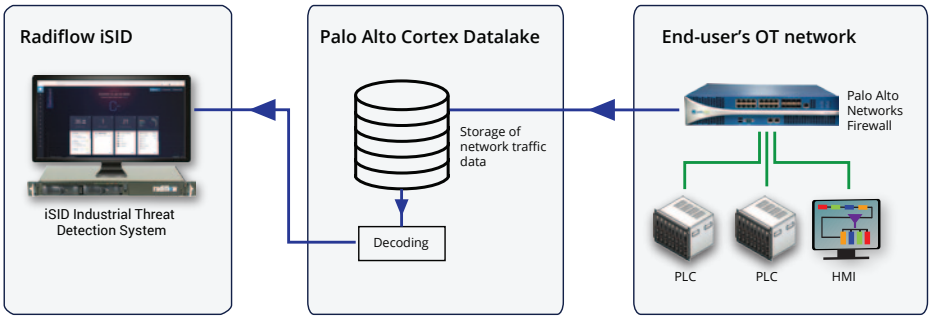
Radifow iSID is a threat detection system for ICS/SCADA networks. The tool enables monitoring of industrial networks by mapping the IT and OT assets, and then providing situational awareness as well as real-time alerts on any behavioral anomalies.

iSID uses multiple security engines in parallel, each offering a unique capability. These engines detect potential anomalies, such as changes in network topology in the session used between devices, use of known exploits, deviations from predefined DPI policies of M2M sessions and changes in PLC configurations.

PALO ALTO NETWORKS CORTEX

The Palo Alto Networks'® Cortex prevents successful cyberattacks through intelligent automation. Cortex combines network and endpoint security with threat intelligence and accurate analytics to help streamline routine tasks, automate protection and prevent cyber breaches.

Tight integrations across the platform and with ecosystem partners deliver consistent security across clouds, networks and mobile devices, natively providing the right capabilities at the right place across all stages of the attack lifecycle.



Basic elements and workflow of the combined solution

iSID-PA FOR PALO ALTO NETWORKS APPLICATION FRAMEWORK

iSID-PA is an industrial threat detection app for the Palo Alto Networks' Cortex Framework. The Cortex Framework enables organizations to quickly deploy new security capabilities without needing to provision additional hardware or software.

It also offers a suite of APIs developers can use to connect innovative apps with rich data, threat intelligence and enforcement points. Organizations gain immediate security value from apps developed by an open ecosystem of trusted innovators.

USE CASE NO. 1

Challenge: Logic change in industrial controllers is not well protected.

Answer: Monitor maintenance sessions to each controller and validate each change process.

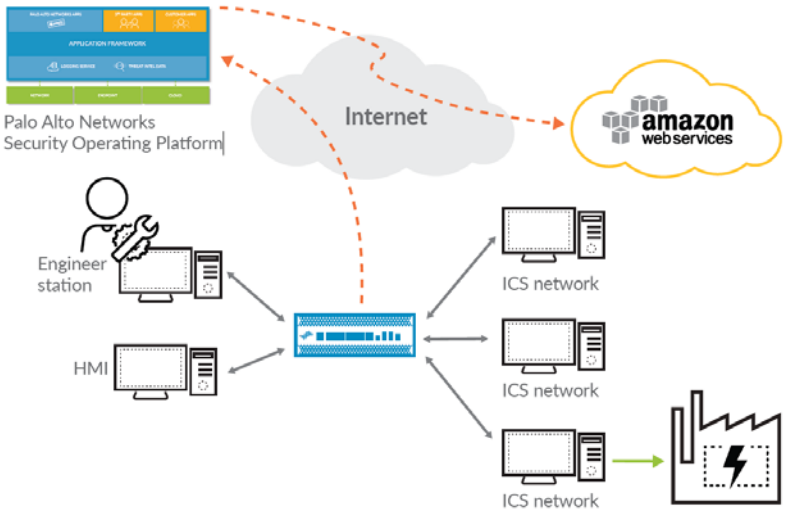
Benefit: Radiflow iSID understands the maintenance protocols of the industrial controllers. It monitors and raises alerts on suspicious operations in addition to validating the content of any firmware or logic changes.

USE CASE NO. 2

Challenge: Up-to-date inventory information on industrial assets and their vulnerabilities is lacking.

Answer: Radiflow iSID monitors operational parameters that each controller publishes and compares them to known vulnerabilities.

Benefit: iSID provides up-to-date inventory information for the industrial network.



iSID monitoring an ICS network via the Application Framework

ABOUT RADIFLOW

Radiflow develops trusted Industrial Cyber-Security Solutions for Critical Business Operations. Our portfolio of game-changing solutions for ISC/SCADA networks empowers users to maintain visibility and control of their OT networks. Our intelligent Threat Detection and Analysis Platform for industrial cyber-security minimizes potential business interruption and loss within your OT environment.

Radiflow's team consists of professionals from diverse backgrounds, from cyber-experts from elite military units and automation experts from global cyber-security vendors. Founded in 2009, Radiflow' solutions, are successfully deployed by major industrial enterprises and utilities protecting more than 3,000 critical facilities worldwide. More at www.radiflow.com.

ABOUT PALO ALTO NETWORKS

We are the global cybersecurity leader, known for always challenging the security status quo. Our mission is to protect our way of life in the digital age by preventing successful cyberattacks. This has given us the privilege of safely enabling tens of thousands of organizations and their customers.

Our pioneering Security Operating Platform emboldens their digital transformation with continuous innovation that seizes the latest breakthroughs in security, automation, and analytics. By delivering a true platform and empowering a growing ecosystem of changemakers like us, we provide highly effective and innovative cybersecurity across clouds, networks, and mobile devices. Find out more at www.paloaltonetworks.com.

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