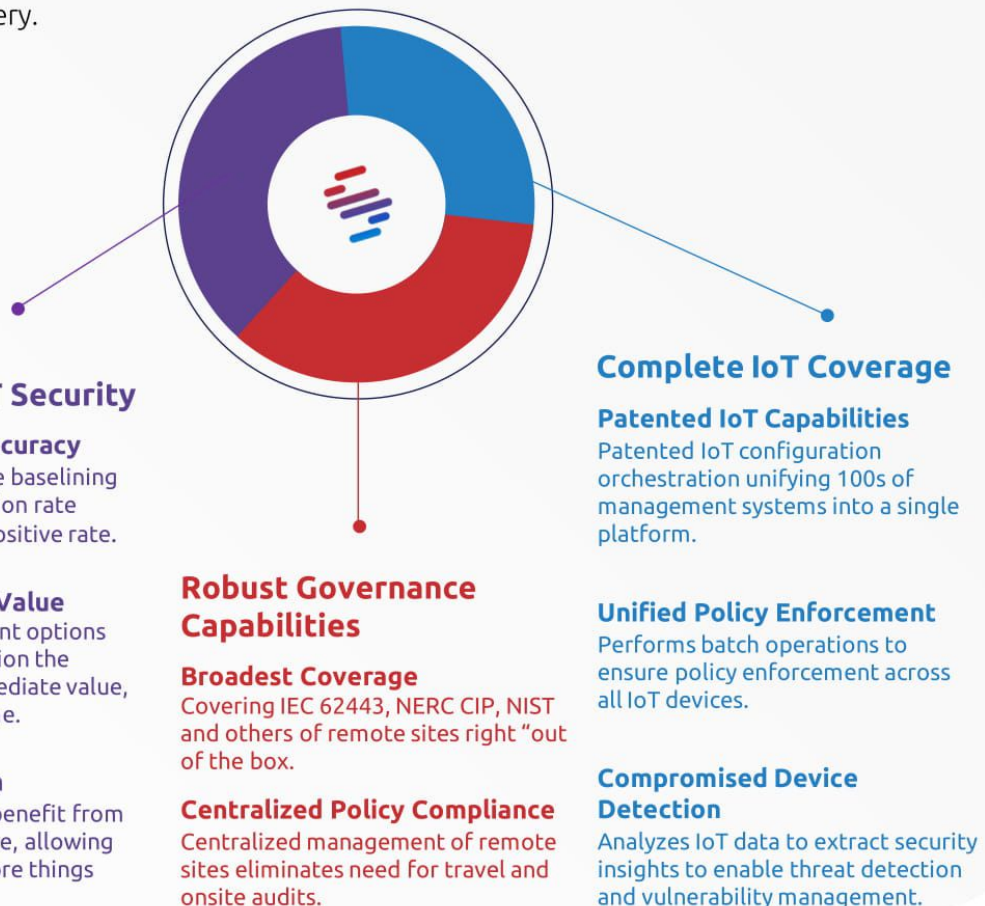# OT & IoT Cybersecurity For The Mining Sector

Securing The Mining Sector
With Precision & Fidelity

Unique Security Challenges for The Mining Sector

The mining sector has been much quicker to adopt technological leaps in recent years. The benefits for the mining sector are clear, with technological developments increasing the productivity and safety during a time that has seen a decline for many metals and minerals. However, mining companies must protect themselves to ensure those benefits aren't lost to malicious malware. Cyber-attacks tend to target four sections in the mining industry: extraction, processing/refinement, stock management, and shipping. Each section presents a different set of vulnerabilities, reducing efficiency, delaying operations and causing financial turmoil. Given the extremely dangerous environments that mine sites present - with heavy machinery, fumes and explosives, the effect of a cyber-attack on safety technologies such as wearables and gas detectors is possibly the most severe.

The Need For a Full-Stack OT & IoT Network Security Solution

Complete coverage of an industrial mining network must include continuous monitoring of the industrial network, continuous measuring of governance & compliance, as well as coverage extending to IoT devices and machinery.

Best-in-Class OT Security

Industry Leading Accuracy
Micro-granular adaptive baselining delivers highest detection rate with the lowest false positive rate.

Immediate Time to Value
With flexible deployment options and minimal configuration the platform provides immediate value, with nominal set up time.

Simplicity by Design
Companies of all sizes benefit from a simple user experience, allowing smaller teams to do more things with less resources.

Robust Governance Capabilities

Broadest Coverage
Covering IEC 62443, NERC CIP, NIST and others of remote sites right "out of the box.

Centralized Policy Compliance
Centralized management of remote sites eliminates need for travel and onsite audits.

Complete IoT Coverage

Patented IoT Capabilities
Patented IoT configuration orchestration unifying 100s of management systems into a single platform.

Unified Policy Enforcement
Performs batch operations to ensure policy enforcement across all IoT devices.

Compromised Device Detection
Analyzes IoT data to extract security insights to enable threat detection and vulnerability management.

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The SCADAfence Platform
Powerful OT Security for the Mining Industry

The SCADAfence Platform is an industrial cybersecurity solution that provides visibility and monitoring for the mining industry's OT & IoT networks. The platform automates asset discovery and inventory management, as well as threat detection and risk management. By employing a wide range of algorithms, machine learning and AI, the platform detects anomalies and security events that can compromise availability and affect the safety and reliability of the OT network and its assets. The SCADAfence Platform is an award winning solution that has the highest detection rates and the lowest false positive rates in the industry, while maintaining an affordable total cost of ownership (TCO) for all users.

The Added Benefits of the SCADAfence Platform:

Full Visibility - Get visibility into your OT & IoT networks, like turning on the light in a dark room. This helps your organization see all of your devices and how they communicate, while exposing potential attack vectors while improving your network security hygiene.

Automated Asset Management - Get an automated, accurate, asset management service in real-time, which doesn't interfere with your organization's day-to-day processes and operations.

Threat Detection in Real-Time - Passively detect indicators of compromise in real-time, and get early indications of an attack throughout the cyber kill chain.

Immediate Response - Respond immediately to threats by seamlessly integrating with existing security controls and SecOps procedures.

Risk Reduction - Immediately reduce your risk, without changing your existing network or infrastructure.

Remote Access Security – Get full visibility into remote access connections. Track and detect user activities that are out of the user's profile or are malicious in nature.

The SCADAfence Platforum's Network Map

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The SCADAfence Governance Portal
IT/OT Governance Done Right for the Mining Industry

The SCADAfence Governance Portal measures compliance and monitors the progress made over time across all mining sites. It identifies all of the gaps and bottlenecks and allows users to generate systematic strategies to improve their organizational security at scale. The platform enables the IT and OT departments to centrally define and monitor the organizational adherence to organizational policies and to OT related regulations. The solution is easily deployed, is not intrusive, and does not jeopardize the process availability in any of the mining sites.
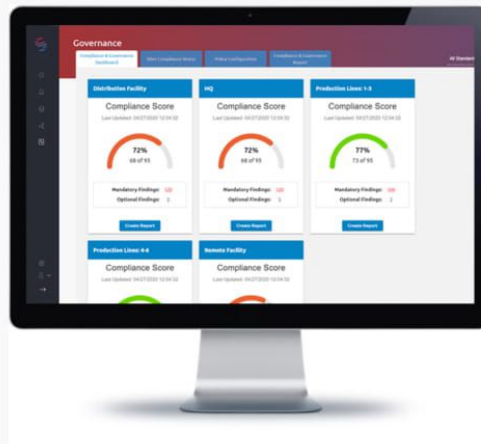
The SCADAfence Governance Portal's Central Dashboard

SCADAfence IoT Security
Extending Coverage into the Mining industry's IoT Devices & Machinery

SCADAfence offers a unique solution to address the mining industry's IoT security challenges with an innovative, centralized platform for IoT endpoint orchestration and management. You don't have to deal with hundreds of malfunctioning or quarantined IoT devices, you can manage and fix any security issues on your IoT devices with a single click. You can also proactively detect exposures to your IoT devices, even before your IoT devices can be compromised. The solution performs central orchestration, and is agentless. The solution saves you time, while keeping your workers safe and productive.

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Why Do Our Customers Love Us?

Best security coverage: 100% inspection, adaptive, device based baseline.

Lowest false positives in the industry

Lowest TCO for large distributed deployments

Quickest deployment time, no tuning and baseline restarts, no baseline downtime!

Track (remote) user activity with no additional add-ons

Centrally manage governance of remote sites (IEC 62443, NERC CIP, NIST and others)

Highly customizable: Maps, models, standards and policies, asset DB – for enterprise scenarios

The most advanced IoT support with policy enforcement and central configuration management

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Gartner **peer**insights.

SCADAfence

★★★★★

"Highest Detection Rates, Lowest False-Positives."

Role: Security and Risk   Industry: Ma

Gartner **peer**insights.

SCADAfence

★★★★★

"Once You Use SCADAfence And Their Proactive OT Security Platform, You Cannot Imagine Working Without It"

Role: System Integrator   Industry: Manufacturing   Company Size:1B - 3B USD

SCADAfence Has the Highest Customer Satisfaction Rating in Gartner's Peer Insights Review Platform

Gartner **peer**insights.™

"SCADAfence enhances our ability to continue and adopt Smart City technologies, and will allow us to operate securely as we digitalize our OT infrastructure."

Akira Sugawara, Mitsui Fudosan

MITSUI FUDOSAN

"With SCADAfence, we feel secure while we bring our production environment into the Industrial IoT era."

Itzik Baruch, VP Technical Services,
Taro Pharmaceuticals

TARO

Award Winning

In 2020 alone, SCADAfence has won multiple industry awards, including Gartner Cool Vendor and awards for ICS/SCADA Security, Compliance & Critical Infrastructure Protection.

About SCADAfence

SCADAfence is the global technology leader in OT & IoT cyber security. SCADAfence offers a full suite of industrial cybersecurity products that provides full coverage of large-scale networks, offering best-in-class network monitoring, asset discovery, governance, remote access and IoT device security. A Gartner "Cool Vendor" in 2020, SCADAfence delivers proactive security and visibility to some of the world's most complex OT networks, including the largest manufacturing facility in Europe. SCADAfence enables organizations in critical infrastructure, manufacturing and building management industries to operate securely, reliably and efficiently. To learn more, go to www.scadafence.com

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