



Cybersecurity Through Interoperability

What is LIGHTS?

About:

Non-profit initiative to provide deployable cybersecurity options to ICS facilities

Purpose:

Visibility into and Control of Cybersecurity and Compliance for ICS Asset Owners

Method:

Open Source Monitoring by LIGHTS-Certified Managed Security Service Providers (MSSPs)



Why LIGHTS?

Why:

Majority of ICS facilities unable to address cybersecurity to meet the National Critical Infrastructure need

Origin:

ICS Asset Owners asking for standardized programs to provide comprehensive cybersecurity solutions

Who:

LIGHTS founders come from industry, vendors and service providers

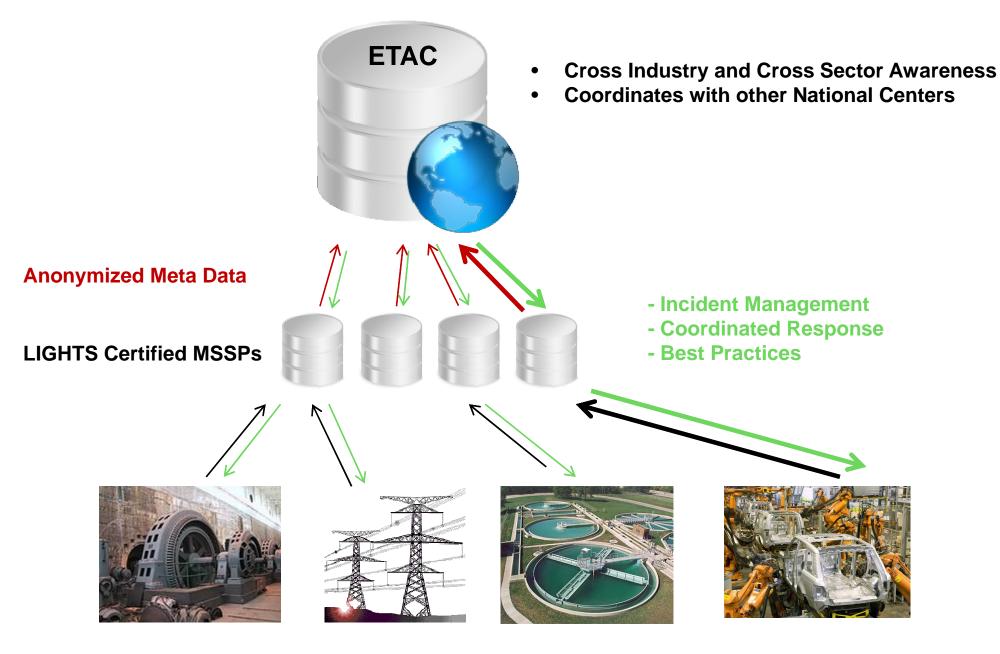


LIGHTS Overview

- LIGHTS Certifies Vendors, MSSPs and Consultants
- LIGHTS MSSPs offer standard menu to facilities
- Base package:
 - Open Source SIEM sensor installed at utility site
 - MSSP monitors sensor 7x24
 - Energysec Tactical Awareness Center (ETAC)
 - Membership fee includes sensor and installation
 - Flat rate monthly monitoring fee
- Options
 - Unmanaged Open Source SIEM
 - LIGHTS Certified commercial products and services

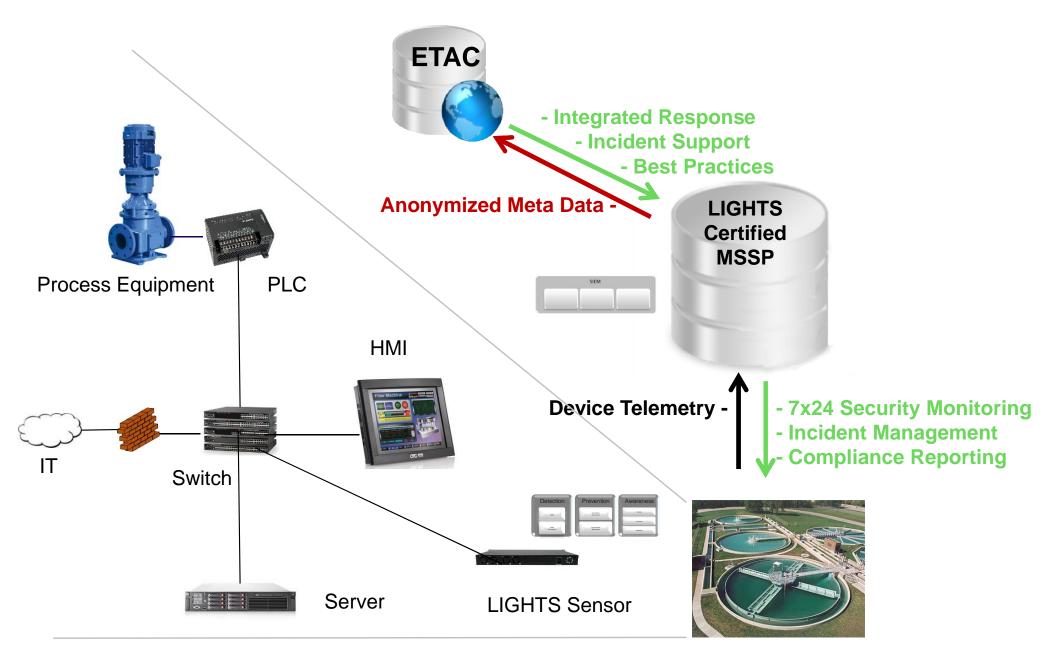


Energysec Tactical Analysis Center

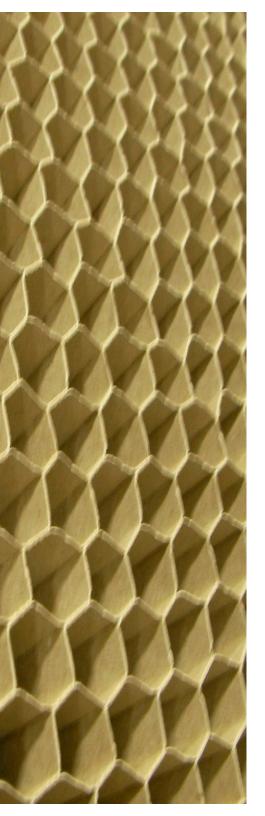




LIGHTS MSSP Architecture

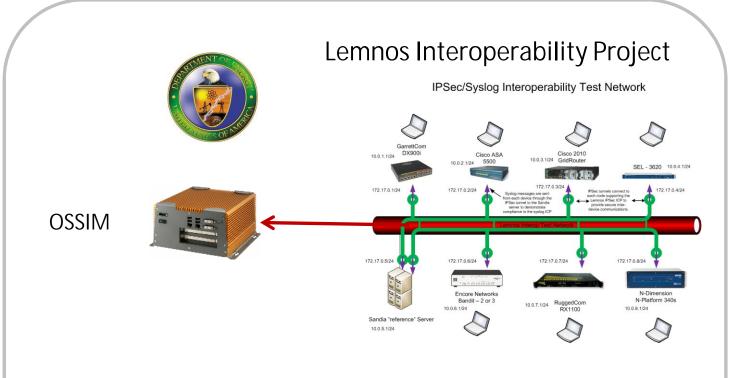






Standardized Open Source Sensor

- Consistent Facility and MSSP Model
 - Includes all standard security capabilities
 - Non-commercial tools



OSSIM Designated Log Normalization Standard



Capability Architecture

NERC CIP-008-3 - maintain a Cyber Security Incident response plan and implement the plan in response to Cyber Security Incidents

NERC CIP 001-1a Disturbances or unusual occurrences. suspected or determined to be caused by sabotage, shall be reported

> NRC 10 73.54 capability to ... respond to, and recover from cyber attacks

LIGHTS MSSP SOC

Incident Management

Reporting

SIEM

Integrated Management

CFTAS 27.230 Deter cyber sabotage, including by preventing unauthorized onsite or remote access to critical process controls



IDS/IPS **WIDS** HIDS File Integrity

Detection

Prevention

Vulnerability Assessment

Cyber Threat Assessment

Awareness

Identity

Inventory

Forensics

NERC CIP-003-3 document and implement a program for managing access to protected Critical Cyber **Asset information**

NERC CIP-002-3 identification and documentation of the Critical Cyber Asset

CFATS 27.255 facility must keep records of the activities as set out below for at least three

NRC 10 73.54 timely detection and response to cyber attacks

CFATS 27.215 description of possible internal threats





Summary

- Practical and economical framework
 - Non-profit structure ensures vendor neutrality
 - Certified providers offer high security for low resource
- Framework for regulatory requirements
 - Complete auditing framework for compliance
 - Modular capabilities can be exchanged for commercial solutions
- Control of safety and reliability
 - Real-time visibility and monitoring confirms cyber assets' integrity
 - Attacks result in specific actionable response and defense
 - ETAC provides cross-facility and cross-sector awareness



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