

MUSE™

FACILITATES NERC CIP COMPLIANCE

MEETING A NEW GENERATION OF CRITICAL INFRASTRUCTURE CYBER SECURITY STANDARDS

Critical infrastructures, and power utilities in particular, have become a primary target of cyber attacks. Many attacks have been successful causing disruptions to tens of thousands of customers.

To harden CI entities against cyber-attacks, regulatory authorities initiated the creation of cyber-security standards. The North American Electric Reliability Corporation Critical Infrastructure Protection (NERC CIP) standards Version 5, which came into effect in 2016, represents a major increment in the breadth of coverage and depth of requirements from its decade old predecessor. Under CIPv5, all bulk electrical system (BES) generating facilities must meet certain requirements.

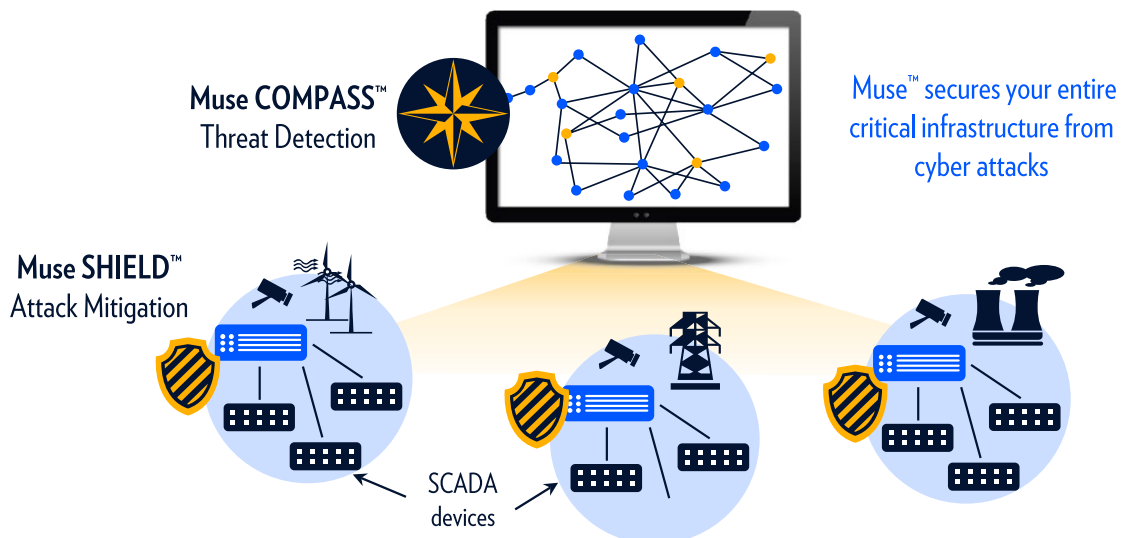
ECI's Muse CI cyber security solution for CI facilitates compliance with NERC and similar standards. It accomplishes this by combining distributed IT + OT attack mitigation, which prevents attacks where and when they occur, at all your facilities, with centralized advanced threat detection and reporting.

Industry-leading
SCADA protection

Centralized alerts
and threat maps

Prevention
of attack propagation

Encryption
against MITM attacks



TOOLS FOR NERC CIP V5 COMPLIANCE



Based on two complementary subsystems, Muse provides a holistic cyber security solution for power utilities that facilitates NERC CIPv5 standards compliance.



Muse SHIELD™ unifies multiple cyber security functions into a consolidated form factor and prevents IT and OT cyber-attacks at the communications point-of-access to any facility before they can cause harm. SHIELD incorporates:

- Best-of-breed SCADA protection and anomaly detection against zero-day attacks and site infiltration
- A secure gateway that includes a next gen firewall and applications control to segregate OT networks and prevent attack propagation
- L2/L3 encryption against man-in-the-middle attacks



Muse COMPASS™ is an intelligent, centralized system that eliminates the guesswork in identifying and managing CI cyber security threats. COMPASS collects, validates, correlates, and analyzes information from IT and OT cyber security systems and sensors, and presents threat insights in a visually intuitive and actionable manner.

SHIELD feeds COMPASS with events, logs, and Deep Packet Inspection (DPI) information. In return, COMPASS directs SHIELD policies. Together they provide a rich set of tools to facilitate complying with NERC cyber security standards, or those from other regulatory bodies.

CIPv5 Reference	Covers	Muse Facilitation
CIP-002	BES Cyber System Categorization	Complete system mapping including all SCADA assets
CIP-003	Security Management Controls	Roles authorization for different levels of management control
CIP-004	Personnel & Training	User training and awareness
CIP-005	Electronic Security Perimeters	Distributed attack mitigation at the point of entry to each facility
CIP-006	Physical Security of BES Cyber Systems	Asset management and monitoring, and SCADA commands anomaly detection
CIP-007	Systems Security Management	Centralized management and reporting, and updating of attack mitigation settings based on analysis of threat profiles
CIP-008	Incident Reporting and Response Planning	Centralized incident reporting and event logging in support of internal workflows
CIP-009	Recovery Plans for BES Cyber Systems	Centralized software management enables fast updates and recovery of distributed attack mitigation systems
CIP-010	Configuration Change Mgmt and Vulnerability Assessments	Asset management and network analytics
CIP-011	Information Protection	Monitoring, detection, and analysis of modifications to assets

Contact us to discover how Muse™ can secure your critical infrastructure from cyber attacks

ABOUT ECI



ECI is a global provider of ELASTIC network solutions to CSPs, utilities as well as data center operators. Along with its long-standing, industry-proven packet-optical transport, ECI offers a variety of SDN/NFV applications, end-to-end network management, a comprehensive cyber security solution, and a range of professional services. ECI's ELASTIC solutions ensure open, future-proof, and secure communications. With ECI, customers have the luxury of choosing a network that can be tailor-made to their needs today – while being flexible enough to evolve with the changing needs of tomorrow. For more information, visit us at www.ecitele.com