

SECURITY AND COMPLIANCE FOR ENERGY & UTILITY



Assessing the Threat Landscape

Organizations in the Energy and Utilities industry are faced with a very serious threat of exposure from the inside. Identity and access management solutions are designed to address this specific threat. To meet energy compliance mandates, solid technical patterns and practices lead to cost effective identity management solutions for these threats.

Standards and Regulations

Organizations are working to comply with Federal Energy Regulatory Commission (FERC) and North America Energy Reliability Corporation (NERC) standards in order to establish, control and terminate access to critical cyber assets - Critical Infrastructure Protection (CIP). Faced with stringent requirements and hefty fines in the case of non-compliance, it's becoming even more critical to protect internal assets from threats, abuse and possible attacks in energy generation, transmission and, in many cases, distribution.

Depending on their business, many organizations are also having to deal with other industry regulations, such as Sarbanes-Oxley Act for publicly traded companies, PCI DSS for companies involved in credit card transactions, as well as HIPAA for dealing with health related information for employees and contractors.



Prolifics' Regulatory Compliance Experience

Prolifics' security practice has a proven track record of assisting our customers in addressing the NERC CIP and SOX requirements in the Energy and Utility space. We have helped many organizations successfully implement: identity provisioning & access control architectural constructs to address NERC-CIP cyber security directives; provisioning adapters for AMI components, including TGBs; utility control room access control & session management solution design; and report patterns in the IBM Security suite of products to address NERC-CIP, SOX & PCI auditing requirements.

With proven expertise implementing Identity and Access Management controls, we ensure that:

- **CIP-003-1** requirements for the access authorization enforcement are maintained via identity lifecycle workflows with the robust approval framework and multi-level escalation. The audit trails are preserved for each request and approval, ensuring access is given, modified and revoked only under proper supervision. Automatic enforcement of access privileges is linked in and based on business roles. Annual reviews and re-certification of access are required from the management and system owners.
- **CIP-004-1** training program requirements are enforced via proper personnel on-boarding and transfer workflows, tied into the HR and training systems. Revocation within 24 hours of termination is a part of the closely enforced identity lifecycle. Critical asset access lists are available for review 24/7 by authorized personnel via a web interface
- **CIP-006-1** physical access protection is implemented by integrating with card access and badge systems and tied into an identity lifecycle.
- **CIP-007-1** enforcing the creation and management of user access to Critical Cyber Assets by employing industry standard role based access control and certification, provisioning, rights and password management. Directly assigning owners and custodians for individuals and shared system accounts on a "need to know basis" and subjecting it to periodic reviews. Analyzing and remediating orphan accounts. Password policies are deployed in the automated identity management system to ensure only qualified passwords are allowed.

Getting Started with Prolifics

Prolifics has created specific offerings for the Energy and Utilities sector:

Identity Management Roadmap for CIP Compliance Workshop

- ◆ Prolifics' security experts provide a review of your current approach to identity and access management and the state of the CIP adherence. We also identify strengths, weaknesses, opportunities, threats, issues and focus areas.
- ◆ The workshop includes an evaluation of your identity and access management business needs with a series of questions designed to analyze your existing infrastructure, key pain points and business controls.
- ◆ Prolifics will develop a high-level solution architecture, integration plan and preliminary estimated costs associated, as well as a summary of findings.

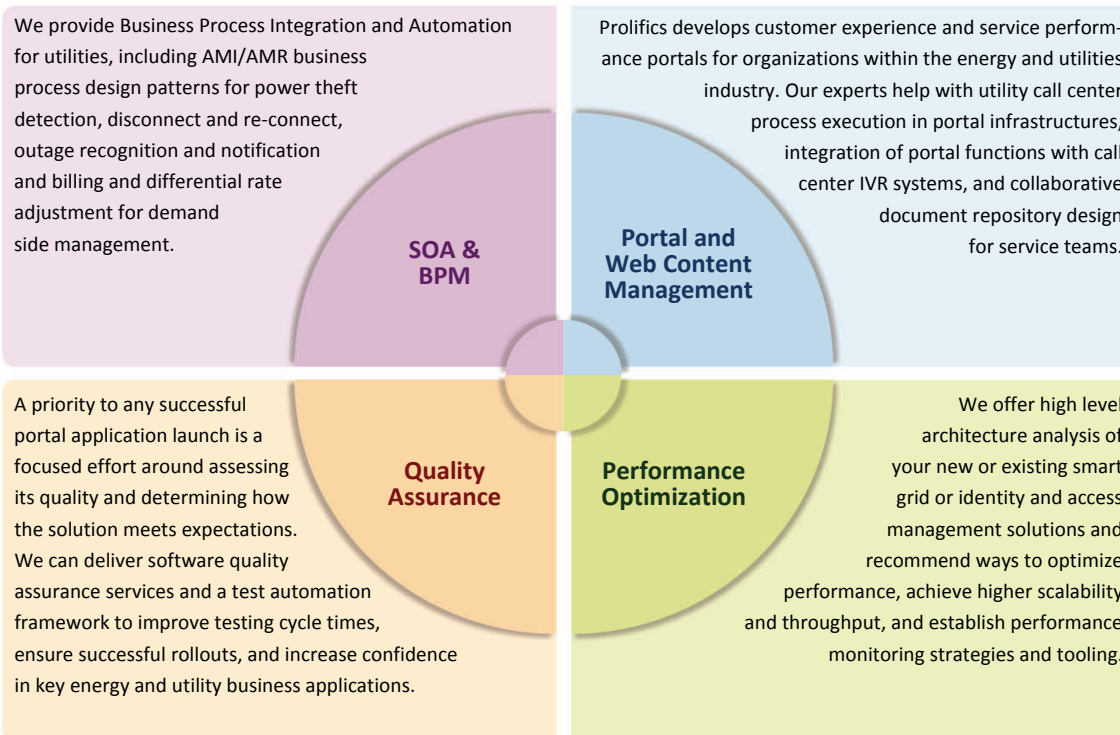
Smart Grid Security Readiness Check

- ◆ Prolifics' security experts will perform a comprehensive review of your existing infrastructure to assess your readiness for a smart grid security initiative.
- ◆ We will ensure that you are effectively planning and building the smart grid system needed to operate a reliable, efficient and secure electricity system.
- ◆ At the end of the assessment, Prolifics will provide you with a detailed document outlining our recommendations and proposed next steps.

Prolifics' Smart Grid Readiness Check - Business Requirements Addressed:

- ◆ Products and processes that address NERC-CIP requirements
- ◆ Standards based Industry Framework approach
- ◆ NERC-CIP compliance report generation tools
- ◆ Policy management at the business, architectural and operational levels
- ◆ Trusted platforms and networks
- ◆ Secure operating environments for Embedded Systems & Intelligent Devices
- ◆ High performance hardware cryptographic modules
- ◆ Intrusion detection & protection systems for preemptive threat mitigation
- ◆ Network, Application & Data security SW products supported by research meet independent certifications
- ◆ Application Security Vulnerability Testing tools
- ◆ Penetration Testing
- ◆ Secure user and role management across the enterprise
- ◆ Centralized access management
- ◆ Managed Security services to help monitor and remedy networks
- ◆ Research teams that study and publish emerging threats and exploits
- ◆ Command centers for event management and control
- ◆ Critical Cyber Asset identification and management tools
- ◆ Security Incident & Problem Management process automation

Related E&U Service Offerings



Key E&U Customers

- ◆ American Water Works
- ◆ Aqua America
- ◆ DTE
- ◆ ISO New England
- ◆ Portland General Electric
- ◆ Republic Services
- ◆ Scottish Power
- ◆ Southside Electric Cooperative

About Us

Prolifics, AAA Accredited by IBM for its security expertise, specializes in Identity and Access Management and has serviced a broad range of industries including Finance, Healthcare, Utilities, Insurance, Legal, Government, Retail and more. Experienced with regulatory compliance mandates and audit requirements in the Energy and Utilities sector, Prolifics' services include user ID and password management, password synchronization, Single Sign-On (SSO), directory services, Web-based authorization, self-registration, federation, and self-service password reset. Combining business flexibility and cost competitiveness with excellence in technical skill, professionalism and a commitment to our customers, Prolifics' solutions build agility into businesses around the world.



SEMANTICSPACE

www.prolifics.com e: solutions@prolifics.com

www.semanticspace.com e: sales@semanticspace.com

u.s. headquarters: 114 west 47th street new york new york 10036 USA t: 212.267.7722 or 800.458.3313 f: 212.608.6753
new york city orlando boston philadelphia washington dc san francisco london hamburg hyderabad