



Cyber Defense Agency, LLC
Defending Critical Cyberspace



Security Assessment Services for the Power Industry

Mission-Effective Security

The power industry is one of our nation's most critical infrastructure sectors. Providing uninterrupted power is crucial in ensuring the smooth operation of our nation. Security violations and vulnerabilities could result in sustained outages and disruptions to the economy.

With the ever increasing dependency on information systems and technologies, staying ahead of security vulnerabilities is more important than ever. Energy management and control systems are being placed online and connected to the corporate network and, in many instances, to the Internet, thereby exposing the sector to new and greater security and business risks.

It is not enough to just identify an organization's vulnerabilities, security risks, or even follow a security checklist; key decision makers need quantified information that assesses their security risk in terms of impact on their business' mission. This information can be used to perform trade-off analysis on risk reducing countermeasures and to prioritize mitigation strategies, applying limited resources efficiently.

methodology has successfully been applied to many organizations, including high-priority Department of Defense (DoD) and government programs. This approach has effectively been used to support the business case for billion-dollar cyber security investment decisions.

CDA can provide the tools and metrics needed to make sound business decisions when implementing security-related countermeasures and architecting solutions. Our aim is to make security an integral part of your organization and to ensure it works as a business enabler rather than a hindrance.

Our **Security Assessment** services help you to:

- Evaluate your network and information system security posture
- Assess cyber security exposure and quantify impact on the business mission
- Conduct trade-off analysis to evaluate design and architecture alternatives with respect to security, cost, and performance impact
- Develop risk mitigation strategies with the goal of mission effectiveness

How Can Cyber Defense Agency Help?

Cyber Defense Agency (CDA) has developed a mission-aware risk analysis methodology that allows you to balance risk, mission requirements, and cost. Our risk assessment

Services

Depending on your needs, our Security Assessment services can include:

- *Risk and Design Analysis* – We will apply our mission-aware risk assessment



methodology to define your threats and adversaries, identify potential attacks against your system, assess business risks and impact, conduct trade-off analyses of countermeasures and alternatives, and recommend mitigation strategies to achieve mission effectiveness.

- *Gap Analysis* – Based on the findings from a risk analysis, we will identify areas for improvement and develop a roadmap to help you align with industry best practices.

CDA Methodology

The CDA approach, which is based on sound mathematical and economic principles, allows us to model your adversaries, identify vulnerabilities and potential attacks, determine how adversaries could attack your system to defeat your mission, and quantify the risk to your business. This approach yields a security metric that allows us to conduct trade-off analyses to determine the optimal alternatives or solutions in terms of risk, cost, performance, and ability to support mission requirements. This gives decision makers in your organization the information they need to make informed decisions regarding mitigation strategies.

The CDA Advantage

CDA's senior analysts have been at the forefront of Information Assurance Research and Development (R&D) and practical application, pioneering systems security approaches for the DoD and Intelligence communities. Our in-depth knowledge of adversaries, vulnerabilities, and attacks make us uniquely qualified to assess cyber-related security risks to your organization. Our mission-aware approach allows us to quantify the risks and potential impact to your business, and help you prioritize mitigation strategies to enable mission effectiveness.

Take a Quick Look

Interested in seeing how we can help your company? Our low-cost *Quick Look* assessment can help your organization:

- Prioritize risks and recommend a mitigation strategy for a specific critical asset
- Compare security architecture alternatives that your company is considering using quantitative risk assessment
- Assess the improvement in your security posture from a specific investment that your company is contemplating.

With any of these engagements, we will help you identify risk areas that impact your business and provide mitigation recommendations.

About CDA

Founded in 2002 privately-held Cyber Defense Agency is a leading provider of strategic security consulting and research services. Cyber Defense Agency's security experts help organizations maintain an optimal security posture by identifying and mitigating risk. CDA enables organizations to achieve risk reduction and cost savings by leveraging proven methodologies and technologies.

Cyber Defense Agency has worldwide headquarters in Wisconsin Rapids, Wisconsin. CDA also has offices in Maryland, Minnesota, New Mexico, Tennessee and Virginia.

For further details on CDA's services, call 1-878-ASK-4-CDA (1-878-275-4232), visit our website at <http://www.cyberdefenseagency.com>, or contact us via e-mail at power@cyberdefenseagency.com to see how we can improve your company's security posture.

