



# Cybersecurity Monitoring and Vulnerability Assessment Services

# Who is N-Dimension Solutions?



- Since 2002, N-Dimension Solutions has been focused on cybersecurity for Power & Energy Industry.
- Provide Managed Cybersecurity Services for more than 100 utilities in North America helping them discover issues and prevent damage resulting from cyber attacks.
- Partnered with global industry leaders and associations.
- U.S. Department of Energy Announces \$15 Million in Funding To Improve the Security and Resilience of the Nation's Public Power Grid. N-Dimension is the Technology selected for both by APPA and NRECA.
- Recognized as one of the Top 100 MSSPs in the world across all industries.

## Industry Associations



## Insurance Companies



## Tech & Vendor Companies



## DOE Cyber Security Grant



- ***N-Sentinel Cyber Security Monitoring***
  - Comprehensive continuous Cybersecurity monitoring service for utilities
  - Monitoring of both internal and external traffic
  - Utility cyber community intelligence
  - Actionable threat data and reports
  - Advanced threat alerts
  - Hybrid service delivery combines cloud-based cybersecurity technology backed by Cybersecurity experts
  - Easy, fast deployment and hands-off management
- ***N-Sentinel Vulnerability Assessment Scanning***
  - N-Sentinel Cybersecurity Appliance Configuration
  - Installation Guidance by Phone / Email
  - Tuning Scan for Vulnerability Assessment Scans
  - ***No Restrictions – Move Vulnerability Assessment Unit and Scan Systems in Different Networks As Many Times As You Wish***
  - Flash Alerts
  - ***Access to N-Sentinel Cybersecurity Experts***
  - Secure 24x7 Customer Portal



## *Today's Protection Isn't Enough!*

- **Firewalls** – are misconfigured, not updated and only can see what is passing through them
- **Malware Protection** – is not updated, it can take 180 days to find an issue, and can be fooled
- **Antivirus Protection** - is not updated and can be fooled

***These are no longer enough to stop Hackers and Cyber Criminals from getting into your networks!***

## Recent Cyber Attacks Involving Utilities

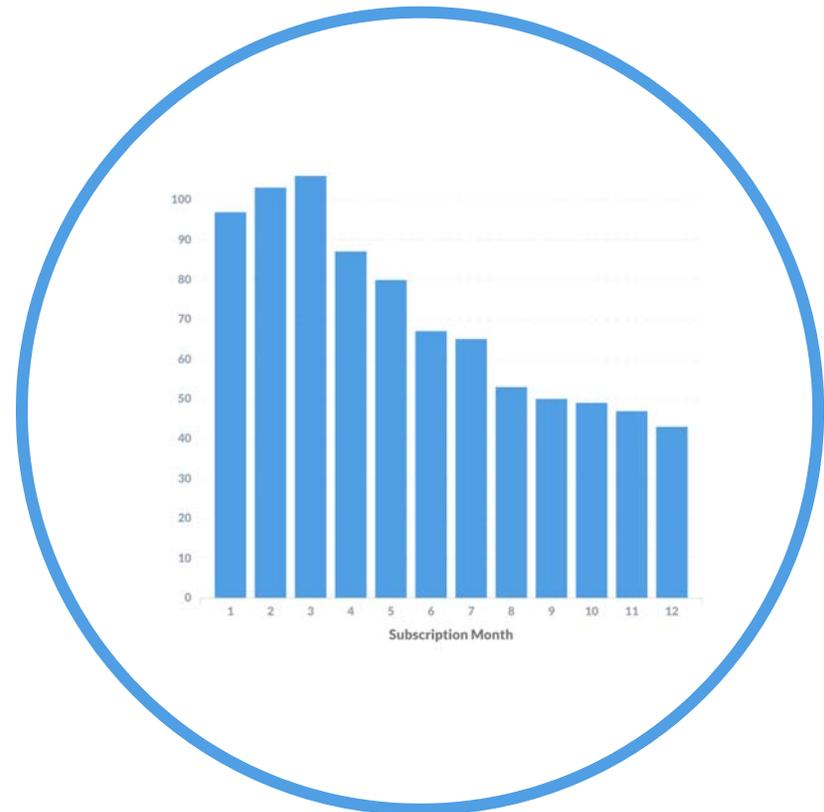


- Municipal utility hacked via AMI system. Over \$2,000,000 spent recovering.
- Co-op's telephone system hacked, customer billed for 900 line calls when contacting them.
- Municipal utility hacked in Midwest. Over \$3,000,000 spent thus far in recovery.
- Co-op's HVAC control system hacked. Financial data sent back to Russia.
- Municipal utility's AMI server left unprotected. Chinese hacker caught trying to worm to Finance system.
- Co-op's SCADA hacked. Lost control over substations for over an hour.
- IOU hacked via 3<sup>rd</sup> party vendor's connection to IOU. CIO commented we thought we were protected. CIO and others fired.
- IOU hacked and 1/3 of their customers data was stolen before cyber defenses recognized the hack.

## Benefit of N-Sentinel Monitoring



Utilities that use our system have seen critical alerts drop by 25% during the first 4 months of using our service and by 50% after 12 months on our service.



# IT and Cybersecurity Experts



- Utilities need both IT professionals and Cybersecurity Experts working together to fix your network issues.
- Each has a very unique set of skills and deep knowledge in different areas.



*Think of it this way: an electrician (i.e. IT professional or 3rd Party IT) can handle a variety of electrical issues based on strong all-around electrical knowledge. However, when you need work done on your transmission or distribution lines at your electric utility (i.e. a cyber attack), you would not call a general electrician to do the work. Instead you would turn to a highly trained seasoned lineworker (i.e. cybersecurity professional).*



# Public Power Cybersecurity Scorecard



NDSI can help you improve your Cybersecurity score and positively impact your Bond Ratings. NDSI's Monitoring and VA services help you in these areas.

N-Sentinel Monitoring	N-Sentinel Vulnerability Assessment
<ul style="list-style-type: none"> <li>4 – Vulnerability Management</li> <li>5 – Threat Management</li> <li>6 – Cyber Risk Management</li> <li>7 – Cyber Event Detection</li> <li>8 – Cyber Incident Response</li> <li>10 – Monitoring System Activity</li> <li>11 – Cyber Threat and Event Information Sharing</li> </ul>	<ul style="list-style-type: none"> <li>4 – Vulnerability Management</li> <li>6 – Cyber Risk Management</li> </ul>



### What exactly is the APPA Cybersecurity Scorecard?

The APPA Cybersecurity Scorecard is an online tool comprised of 14 easy-to-understand cybersecurity related questions that can be completed in under an hour. It can effectively be used by public power utilities to assess cyber risks, to benchmark cybersecurity posture, to help plan improvements, and to assist in prioritizing investments.



### How does the utility score on the APPA Cybersecurity Scorecard effect their RP3 and Bond rating?

Improving the Cybersecurity Scorecard results ultimately means an improved APPA's Reliable Public Power Provider (RP3) rating. As part of RP3 scoring criteria, there

are points associated with cybersecurity: "Cybersecurity Policy or Procedure", "Cybersecurity Awareness or Training" and "Cybersecurity Vulnerability Assessments" which are directly related to the Cybersecurity Scorecard questions – e.g. "Question 4 – Vulnerability Management" to RP3's "Cybersecurity Vulnerability Assessments". Mitigating risks identified from Cybersecurity Scorecard and following the recommendations can lead the public power utility to higher points on the RP3, and help the utility in achieving higher RP3 designation that could translate to improved bond ratings, and savings on insurance.

In the fall of 2016, RP3 representatives from APPA met with 3 key credit rating agencies, Fitch Group, Standard and Poor's Global Ratings, Moody's Investors. These credit agencies evaluate a company's market position, their financial position and performance, governance and management, and debt and capital plan. But how can one measure governance? This is where RP3 comes in – due to RP3's rigorous and comprehensive studies done to a public power utility, the RP3 designees help demonstrate good governance and quality operations. When they are compared against non-RP3 public power utilities, higher percentage of RP3 designees showed strong credit rating.<sup>1</sup> On this note, recently, a Joint Action Agency informed us that their bond rating was positively impacted because they had N-Sentinel Cybersecurity Monitoring in place and were actively using the system. See below how N-Sentinel can help in achieving these positive results.

### How does N-Dimension's N-Sentinel Managed Services Improve My Utilities Score on the APPA Cybersecurity Scorecard?

N-Dimension's N-Sentinel managed security services are designed specifically for utilities, delivering continuous cyber threat monitoring and comprehensive remediation guidance. With timely awareness and insights about cyber threats, along with actionable information and access to cybersecurity experts, customers can take action to protect their networks, data and assets from cyber risks. Utilities who use these systems and fix their issues have shown a 25% decrease in their cyber risk during the first 4 months and a 50% decrease in their cyber risk during the first year.



<sup>1</sup>Source: <https://www.publicpower.org/insights/credibility-designation-can-help-public-power-credit-ratings>



## What customers are saying...



- *“Threat monitoring is a critical layer of protection that all utilities need. We are pleased to provide this guidance to all of our utility members to help them improve their cyber safety so they can ensure continued reliable operations.”*
- *“Without continuous threat monitoring it’s easy to get a false sense that your security systems are already protecting you when they may not be. To know how to protect your network you first need to know what’s attacking it and that’s where N-Sentinel Monitoring has really helped.”*
- *“N-Sentinel’s utility community data is an added value that gives us early warning and insights into developing cyber threat trends enabling us to take action to protect ourselves before a threat hits us.”*
- *“...we knew it was likely threats were hitting our utility but didn’t know how often or how much harm. Rather than wait for one of the attacks to successfully penetrate our security we wanted to be better prepared in advance. N-Sentinel provides us with a detailed understanding of threats and how to improve our security posture.”*
- ***We thought we had the perfect cybersecurity defense in place until we tried the N-Sentinel Monitoring and found out we were missing this piece.***
- *We were using the #1 rated MSSP for cybersecurity monitoring and thought we were good. We did a comparison and found out our current vendor was missing 40% of the issues. We are a happy N-Sentinel customer now.*

Free 60-day Trial



***Want to improve your Cybersecurity Score and find out what is lurking on your networks?***

***Start your Free 60-day Trial of the N-Sentinel Monitoring Service Today!***





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