



INSIGHT INFORMATION

Cyber Security Solutions



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PREVENT YOUR RIG FROM BEING HACKED

As the importance of digital information grows and the world becomes increasingly dependent on interconnected systems. The damages that are caused by a computer virus or a hacker grow exponentially. You don't want your drilling equipment to be hacked. In order to protect your assets and operation against cybercrime, cyber security needs to have the highest priority.



MAJOR THREATS FOR OFFSHORE AND ONSHORE INSTALLATIONS

- Drilling equipment that is hacked might end up in an uncontrolled situation
- 81% of large companies have been under attack, causing exponentially increasing consequential costs
- Common solutions are vulnerable: air gaps introduce delays, data leakage and spreading of viruses and malware, any (software) firewall can be hacked.



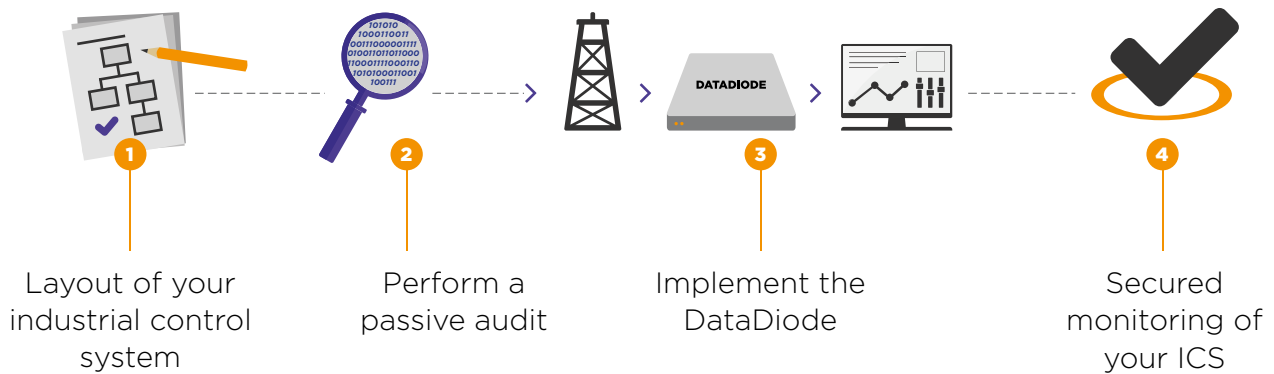
BENEFITS OF OUR CYBER SECURITY SOLUTION

- ✓ Maximum protection against viruses, hacking activity and espionage
- ✓ Hardware based solution; eliminates all external software vulnerabilities
- ✓ Real-time monitoring to your systems while being fully secured
- ✓ Inspect your current status and vulnerabilities with a passive audit
- ✓ Supports Modbus, OPC UA, DNP3 and more



MONITOR YOUR CRITICAL EQUIPMENT SAFELY

Use the following steps to fully optimize the security of your network and various infrastructures such as rigs, thrusters and derricks:



Newly imposed regulations and the need to further increase efficiency and safety of your organization impact your business. It becomes more and more important to remotely monitor your equipment and operations. Clearly, this has to be done in the safest and most secured way possible.

There are multiple steps you can take to further improve the security of your critical equipment and still be able to safely monitor them at a remote location. First, you need to have an up-to-date overview of the layout of your industrial control system (ICS).

There are always vulnerabilities. Performing a Passive Audit will provide you with detailed insight in these weaknesses. In many cases the DataDiode will be a plug-and-play solution to lift your ICS to the highest security levels. You will be able to monitor your ICS secured and safe!



PASSIVE AUDIT

Any IT and ICS infrastructure has vulnerabilities; you just might not yet be aware of them. Our Passive Audit is an advanced way to investigate the integrity of your ICS and IT systems. We monitor and record your network traffic during a four week period. Hereafter, all data will be analyzed so all (potential) vulnerabilities will be identified. A thorough report will describe all findings concerning the architecture of your ICS, the data protocols being used, presence of potential vulnerabilities and exploits, and more.

*“Detect
the current
vulnerabilities
of you assets
with our
passive audit.”*

GAINING INSIGHTS

- Architecture of your ICS and IT network; which systems and services are active
- The data protocols being used, by which hosts and in which frequency
- Presence of potential vulnerabilities and exploits, activities of malicious software (viruses, worms, malware, spyware, adware, etc.)
- Precarious email and web browsing behavior of users
- Potentially faulty configurations and unexpected traffic flows



DATADIODE

The DataDiode one-way data connection protects the integrity and availability of critical assets in Industrial Control System (ICS) networks. Due to its one-way character it allows you to monitor your (drilling) operation and BOP, but ensures that all cyber-attacks are unsuccessful. Other than a Firewall, the DataDiode is a purely hardware solution that cannot be hacked.

FEATURES

- Based on a light emitter and a light receiver: two-way data transfer in front, one-way data transfer behind
- The DataDiode is placed between your key critical systems (e.g. BOP, drilling equipment, thrusters, etc.) and your corporate (office) network
- Easy to implement: all major data protocols and transfer modes can be handled (Modbus, OPC UA, DNP3 and more)

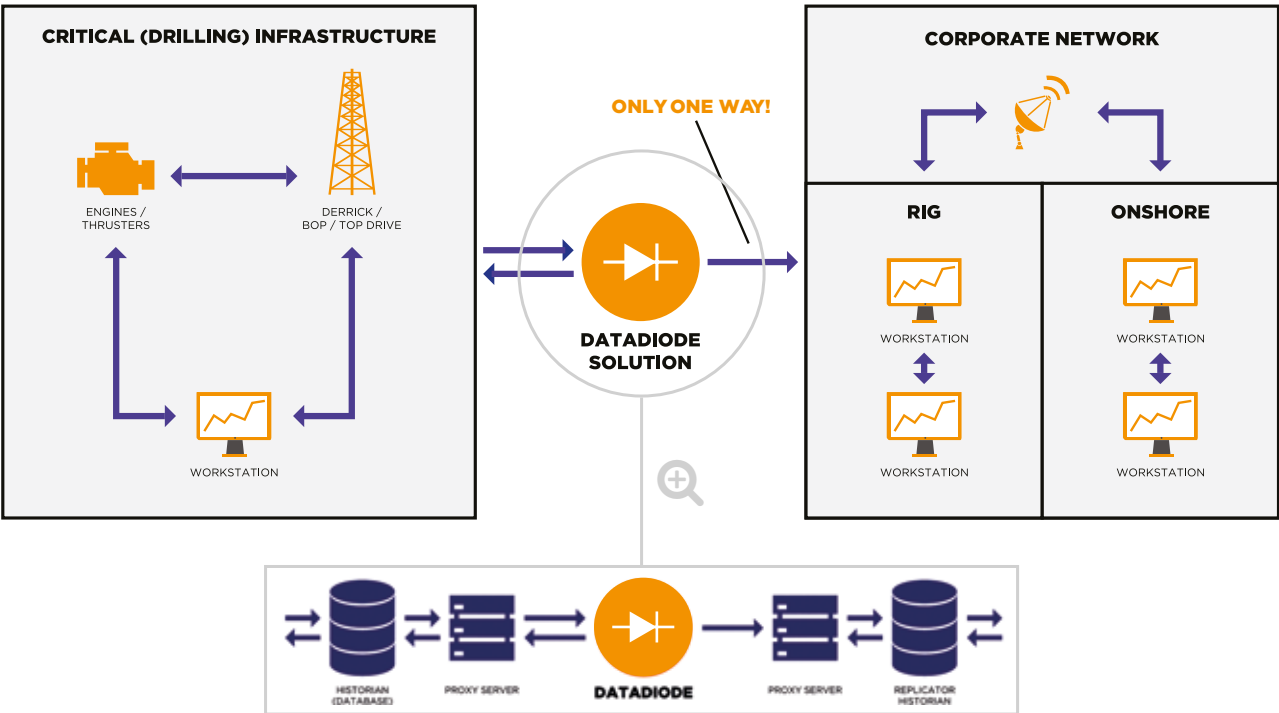
*“Secured
real-time
monitoring of
your primary
assets with the
DataDiode.”*



SYSTEM SET-UP

The DataDiode solution consists of the following elements:

- 2 historians; 1 historian to collect the original data and 1 replicator historian that can be accessed remotely
- 2 proxy servers on both ends of the DataDiode hardware
- DataDiode hardware; the core hardware-based security solution





ABOUT US

Rolloos contributes to a more efficient and safe heavy industry through innovation and excellent service. We aim to create solutions that provide you with the best possible insights to make your operation excel. Whether that is a precise weight indication of your load, automated alarms and image detection within your CCTV system or direct communication through our connectivity solutions: Rolloos leverage accurate, fast and secure information into valuable insights. With Rolloos you improve your safety and efficiency.

MISSION

To make working in harsh and hazardous industries more efficient and safe.

VISION

Rolloos strives to create innovative, integrated solutions that leverage information into insights. It is our goal to utilize these insights and make them available across all aspects of harsh and hazardous operations. To be a strategic partner to our customers for CCTV, mobile communication, weighing, crane safety and industrial cyber security.





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