1

How do you a build a high availability solution using the Threat Removal Plus data diode?

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The deep secure solution can be made highly available very easily, compared to legacy technology such as optical diodes. This is due to native support for modern protocols, such as HTTP compared to UDP for optical diodes, meaning you can verify that the transaction has really reached the OT side – opposed to hoping for the best.

QUESTIONS & ANSWERS

How is the data diode managed?

Once installed, the Threat Removal Plus Data Diode requires very little by way of "food and watering". It is designed for "always on" operation. Proxy software installed on servers on the OT and IT networks controls the interfaces to the diode and this is managed using a simple Web-based GUI.

At our recent "Planning for Industry 4.0" webinar, security experts and critical infrastructure professionals, discussed how best to plan for industrial cybersecurity in a hyper connected world. At the event we showcased Deep Secure's Threat Removal Plus Data Diode and discussed how it could be used to underpin a 4.0 cybersecurity architecture.

Here are a selection of the questions and answers that arose during the session.

Doesn't your diode become a target itself?

The Zero Trust component in the data diode uses a 3 stage Extract, Verify and Build process. The key Verify component is implemented in hardware using FPGAs. This means that even if an attacker is able to seize control of the Extract stage that interfaces with the IT network, they will be unable to mount a successful attack via software into the Verifier and thus the integrity of the OT network is always preserved.

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QUESTIONS & ANSWERS

Does the diode have dual power supplies?

Yes. To further ensure the high availability of the solution, the Threat Removal Plus Data Diode features dual power supplies.

What is the difference between a traditional data diode and the Threat Removal Plus Data Diode?

	Traditional Diode	Threat Removal Plus Data Diode
Supports unidirectional flow of data	\checkmark	\checkmark
Fast, reliable transfer of data	X	\checkmark
Supports bi-directional protocols used by Industry 4.0	X	\checkmark
Deployment supports IT > OT and OT > IT use cases	X	\checkmark
Supports non-stop operation	X	\checkmark
Can verify the data to ensure it is safe	X	\sim
Reduces the attack surface & network level attacks	X	\checkmark

5

If you have a specific Industry 4.0 challenge that you would like to discuss then please get in touch at: **contact-us@deep-secure.com**

For more information on **Zero Trust Security for the IT/OT Boundary** and
Beyond, go to **www.deep-secure.com/ci**