

The turn-key solution to a guaranteed one-way network connection

Fox DataDiode Appliance

Your confidential information needs to stay confidential. Your critical assets need to remain secure and your Intellectual property has to remain safeguarded at all costs. However, high levels of security often hamper productivity. To date common practice has been to use a firewall or a so called air gap (i.e. network separation) as a security measure to prevent data leakage or disaster.

The results however are not satisfactory. Using a firewall means loosening the reins on security measures to achieve a more fluent workflow, which will put your data at risk. Using an air gap is too impractical. With the Fox DataDiode Appliance you have a cross-domain solution that reconciles the seemingly contradictory requirements of high assurance and free flow of information. Its guaranteed one-way network connectivity makes sure you can securely and smoothly transfer information in real-time, 24x7. Offering the highest certified level of security and preventing unwanted access to business assets and critical systems.

Plug and play security

The Fox DataDiode Appliance is a complete solution for connecting otherwise separated networks. Install the Fox DataDiode hardware together with two accompanying servers into the rack and simply enable the services you want to replicate via a web-based wizard. All you need to know where the data comes from and where it needs to go. That is all you need to do in order to create a solid barrier that prevents data leakage and secures your assets.

Drop-in and forget security

Most network boundary protection solutions require continuous supervision in order to keep protecting. When a firewall is not maintained, or firewall logs are not monitored, one cannot depend on a firewall for protection. Similarly, a monitoring solution will not prevent incidents from happening, but does let you react quickly and perform mitigation actions when something is detected. Essentially, alternative solutions require continuous attention from well-trained and scarce specialists in order to provide any protection at all. In contrast, the Fox DataDiode Appliance does not require attention once installed and substantially

Benefits

The Fox DataDiode Appliance is unique compared to other unidirectional gateways and data diodes for the following reasons:



Multiplexable – A single Fox DataDiode setup can support as many protocols and data channels as you wish, as long as the bandwidth permits; some alternative solutions require you to buy a separate diode for every single feature.



100% hardware solution – Some alternative solutions depend on embedded firmware and are essentially low level software solutions.



Common Criteria certification at level EAL7+ Alternative solutions are only certified to level EAL4+ at most.



Independent vendor – Fox-IT is from an independent state. The Fox DataDiode has been independently evaluated by labs from all over the world, including labs linked to the governments of the US, Russian Federation and India.



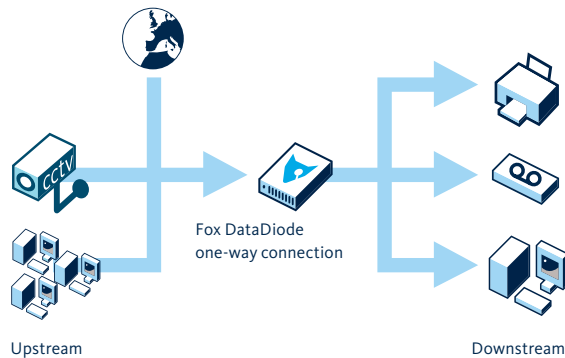
Transparent solution – With the Fox DataDiode, you have clarity upfront. There is a clear distinction between the security guarantee and the solution middleware. Some alternative solutions have blurry distinctions as such it is unclear how and where the security claim is guaranteed or implemented.



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lowers the total cost of ownership while at the same time providing a superior degree of protection.



Fortify and secure your network connections

A wealth of information on the different applications and scenarios for the Fox DataDiode is available on our website. The Fox DataDiode is delivered through a global network of certified and trained partners who are knowledgeable in handling confidential information. For more details, including partner information, please go to www.foxdatadiode.com.

Fox-IT

Fox-IT prevents, solves and mitigates the most serious threats caused by cyber attacks, data leaks, or fraud with innovative solutions for governments, defense agencies, law enforcement, critical infrastructure and banking and commercial enterprise clients worldwide. Fox-IT combines smart ideas with advanced technology to create solutions that contribute to a more secure society. We develop products and custom solutions for our clients to guarantee the safety of sensitive and critical government systems, to protect industrial networks, to defend online banking systems, and to secure confidential data.

Key features of Fox DataDiode Appliance

- Support for Fox DataDiode Ruggedized 1G and 10G.
- Transfer files (using SMB, FTP/FTPS, SFTP/SCP).
- Transfer email (SMTP).
- Synchronize time (NTP).
- Forward UDP and TCP data streams (e.g. SYSLOG, SNMP, video streams, etc.).
- In combination with additional industrial software modules from Fox-IT replicate Modbus, OPC and OSIsoft PI.
- Easy customization possible.
 - Adjusted proxy server specifications.
 - Extra protocol support.
 - Integrated content filtering.
- Multilingual, easy-to-use web interface.
- Bandwidth increased up to 890 Mbps.

Key features of Fox DataDiode hardware

- Fox DataDiode Ruggedized 1G and Fox DataDiode Ruggedized 10G.
- Guaranteed one-way network connection, enforced in hardware.
- Common Criteria certified EAL 7+.
- NATO certified for SECRET level.
- Meets the requirements of a data diode as set out in NERC-CIP CAN-0024.



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