



GUARANTEED ONE-WAY COMMUNICATION AS TURN-KEY SOLUTION

## 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.

### Key features of Fox DataDiode Appliance

- Transfer files (using SMB, FTP/FTPS, SFTP/SCP)
- Transfer email (SMTP)
- Synchronize time (NTP)

### New capabilities of Fox DataDiode Appliance version 2.0

- 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

### Additional improvements in Fox DataDiode Appliance version 2.0

- Multilingual, easy-to-use web interface
- Bandwidth increased up to 890 Mbps

### Key features of Fox DataDiode hardware

- Guaranteed one-way network connection, enforced in hardware
- Common Criteria certified EAL 7+
- NATO certified for SECRET level
- Satisfies the requirements of a data diode as set out in NERC-CIP CAN-0024

Fox-IT prevents, solves and mitigates the most serious threats as a result of cyber-attacks, fraud and data breaches with innovative solutions for government, defense, law enforcement, critical infrastructure, banking, and commercial enterprise clients worldwide. Our approach combines human intelligence and technology into innovative solutions that ensure a more secure society. We develop custom and packaged solutions that maintain the security of sensitive government systems, protect industrial control networks, defend online banking systems, and secure highly confidential data and networks.

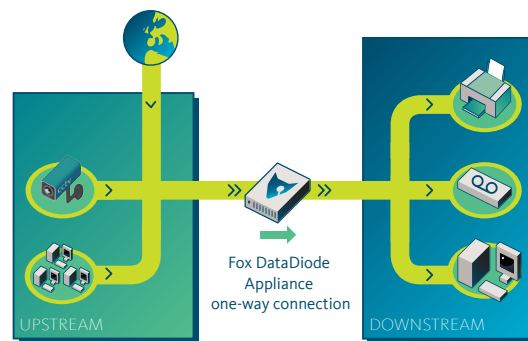
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### Plug and play security

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



### 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 such it is unclear how and where the security claim is guaranteed or implemented.

### Next steps

Using the Fox DataDiode Appliance gives you the best for both worlds: protection, and connectivity. For more information contact your local reseller or Fox-IT to personally discuss your security requirements. Please visit [www.foxdatadiode.com](http://www.foxdatadiode.com).

for a more secure society