



FoxDataDiode

secure **one-way** communication

Overview - Newsletter March 2010

- [Introduction](#)
- [Software Development](#)
- [Common Criteria EAL7+](#)
- [Events](#)
- [Application: Secure Lawful Interception](#)
- [Security Update](#)
- [Contact](#)

Introduction

2010 is going to be an exciting year for the FoxDataDiode:

- Release of the new software, version 1.5.3
- Realease of software running on Microsoft Windows
- A major common criteria update as we are pending for EAL7+
- Introduction of the Secure Lawful Interception application
- Presentation of the FoxDataDiode on various major events.

And this is only the beginning...

Software Development

Government and Business software

The Data Diode was developed for Top Secret environments and has been deployed in many government scenarios over the past few years. An emerging market for the Data Diode is the process control or automation market e.g. energy sector, oil sector or transportation sector. To meet their needs we have developed new Data Diode software running on Microsoft Windows. From now on we are able to deliver two Data Diode software versions, the highly secure Government version and a flexible but simple Business version.

Government version

Mid March we will release our latest software version 1.5.3. This new version has extended the CIFS functionality, added new protocols, new hardware support and we fixed various bugs. A summery of the features:

- FTP SSL support on the Black and Red proxy (Secure command and data channel)
- CIFS supports NTLMv2 and support for transfers of (sub)-directories
- Operating system has been upgraded for newer hardware support
- New password functionalities for root and admin users.
- Security and bug fixes

Version 1.5.3 is available for all customers running 1.5.x and all customers with maintenance contracts. Customers will be notified by Fox-IT support regarding the installation procedures and the upgrade possibilities.

Business version

We have developed the Data Diode service software to provide a flexible and easy to use solution. It is an alternative to the Government version by providing a way for customers to transfer files through a Data Diode easily without having to develop their own software. It also provides a suitable platform for customers to develop custom solutions. The Business version software requires:

- Intel x86 servers
- Microsoft Windows ZP, Vista, Server 2003, Server 2008 OS
- Microsoft .NET Framework version 3.5 or later
- WinPCAP version 4.0 or later

Common Criteria EAL 7+

In 2009 the Fort Fox Hardware Data Diode received the Common Criteria EAL4+ certification. Although our EAL4+ is technically no different from EAL7+ we have noticed that several clients and prospects are demanding a higher EAL. Therefore we have decided to reach for the top and upgrade our evaluation to Common Criteria EAL7+. This will make the Fort Fox Hardware Data Diode the highest Common Criteria evaluated product in the world. This is exciting news and we want to ask you to start telling all your clients and prospects we are EAL7+ pending.

Trivia

- Until now all EAL7+ products have been evaluated by the older Common Criteria 2.x version. - We will be one of the few to be evaluated by the new 3.x version.
- Tenix cannot claim they are the only EAL7+ or highest evaluated product in the world anymore.
- We are the first and only product in Europe to receive this EAL7+ evaluation.

Differences between Tenix's EAL7+ and Fox-IT's EAL7+

- Fox-IT's evaluation will be done by the latest 3.x Common Criteria version
- + means extra (augmented) above the standard version.
- Tenix only did one augmented class within the Common Criteria 2.x version, while we are doing two augmented classes* within the Common Criteria 3.x version

Why EAL7+

- We already have EAL4+, upgrading to EAL7+ is only a small step.
- Prospects and clients focus on the number behind EAL, the higher the number the more people are interested
- The NATO only wants to work with data diodes above EAL 5

More information on [Common Criteria](#)

More information on [EAL](#)

Successful evaluation by the Norwegian Certification Authority for IT Security
While working intensively on our EAL7+ certification we have also been evaluated by the Norwegian Certification Authority for IT Security (SERTIT) to EAL4+. This means that the Fort Fox Hardware Data Diode has been evaluated twice successfully by two independent certification bodies for Common Criteria EAL 4+.

*)The extra class was not yet available in the older version. It is now!

Events

In 2010 Fox-IT will be present at various events with the FoxDataDiode.
On April 14th and 15th you can find us at the Counter Terror Expo at stand no.6.

[Counter Terror Expo](#) is a secure exhibition showcasing the latest specialist security technologies, products and solutions which form a crucial part of counter terror capabilities internationally. Counter Terror Expo 2010 has been developed through deep consultation with the leading industry bodies and associations and will deliver a focused and comprehensive information program through the conference streams, technology workshops and an exhibition of products from over 250 dedicated solution providers.

On April 27-29 you can find us at the [Infosecurity Europe](#) at stand L78.

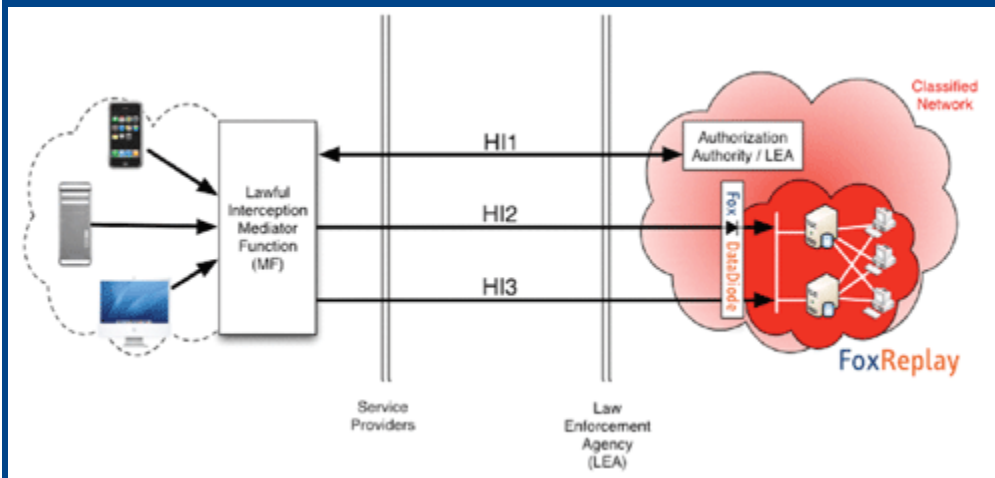
Infosecurity Europe, where information security professionals address the challenges of today whilst preparing for those of tomorrow at THE No 1 industry event in Europe.

Both events take place in London. If you would like to make an appointment during one of these events please send an email to: marketing@fox-it.com.

Application: Secure Lawful Interception

Service Providers intercept communications from the Internet using wiretaps and handover this information to Law Enforcement Agencies (LEA). To prevent investigations being compromised systems are designed based on Lawful Interception (LI) standards like the European Telecommunications Standards Institute (ETSI). The challenges within these systems is to provide network confidentiality while intercepted information is transported from the service provider into the LEA isolated/ classified network. Furthermore, to provide an easy and intuitive mechanism to interpret and reconstruct the intercepted information.

The following figure gives an overview of a secure Lawful Interception application using a Fox DataDiode together with FoxReplay Analyst.



You can find a productsheet on this subject [here](#).

This solutions is one of the many applications where a Data Diode can be useful by providing absolute security without degrading in functionality by remaining transparent.

Security update

Symlink exploit

A zero day exploit has been discovered kdue to a default insecure configuration in Samba. On standard Samba servers this would allow an adversary to read, list and retrieve nearly all files on the system remotely. The impact on our Data Diode software is LOW. Due to the construction of our system the adversary is only able to read certain portions of the systems but he is unable to write files or even send them through the Data Diode.

Regarding:

- Government versions 1.5.0, 1.5.1, 1.5.2
- Red and Black Proxy

Impact:

- Read certain directories and files on the Red and Black Proxy
- Unable to modify files, store files or send them through the Data Diode
- Impact is therefore LOW

Solution:

- In Version 1.5.3 this issue has been resolved
- Update current version to 1.5.3

Backup:

- A backup of the configuration of versions 1.5.0, 1.5.1 and 1.5.2 can be restored on version 1.5.3

Unsure what to do? Contact our support division at +31 (0)15 284 7989 for help.

Contact

To receive more information on the Fox DataDiode or respond to the content of this newsletter, please contact Bartek Gedrojć -product manager- at +31 (0)15 278 79 99 or email: gedrojcc@fox-it.com.

For support contact Fox-IT support at +31 (0)15 284 7989 or through e-mail support@fox-it.com.

If you no longer wish to receive this newsletter please send an email to marketing@fox-it.com.