

Just make sure to be securely protected

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Why am I here?

- Very shortly introduce myself and Fox-IT
- Tell some scary stories
- Tell a bit more about the Fox Data Diode

Fox IT ensures a more secure society

We prevent, solve & mitigate the most serious cyber threats...

We focus on sectors where security is essential...



...with human intelligence & technical innovation.

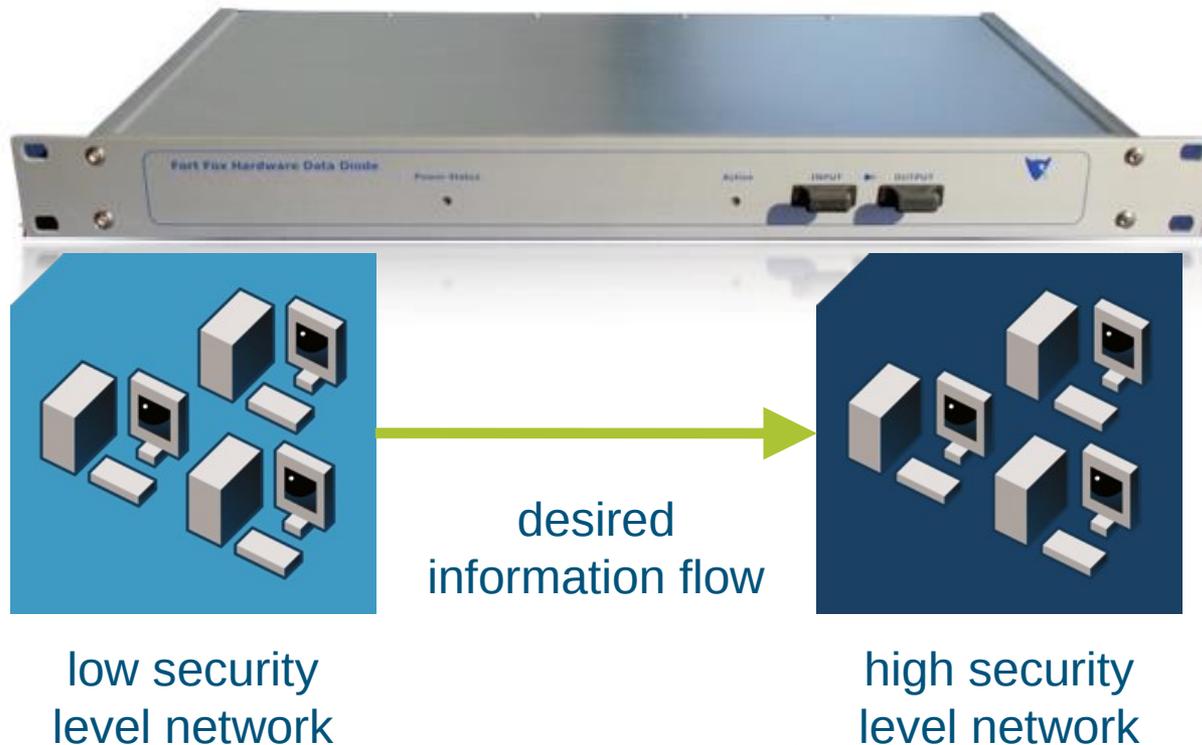
...to protect people, information, money & core assets.

Some relevant company facts

- Around 250 people
- Trust is the basis #1: Everyone is screened
- Trust is the basis #2: Our processes are certified
- Trust is the basis #3: Our products are certified
- Traditionally symbiotic with government, defence, and law enforcement
- Expanding ground on critical infrastructure

The solution?

Uncompromisable network segregation



Uncompromisable?

- Absolutely, and guaranteed (OSI – physical)
- Pure hardware, no software, no complex logic
- Holds the highest possible Common Criteria certification of EAL7+, as well as NATO SECRET.
- Why not simply use firewalls?

How about functionality?

- Functionality → Do meaningful data transfer
- So we do add logic, yet loosely coupled
 - Proxy servers surround the Diode:
 - Provide infrastructural interface
 - Marshall complex data streams and files
 - Do protocol break (add even more security)
 - Add forward error correction

How about some examples?

- Scenario #1: Send classified files into your high-security network
- Scenario #2: Securely send Windows Updates into your high-security network
- Scenario #3: Forward emails into your high-security network
- More scenarios: Time (NTP), Database replication, printing, Antivirus updates, RSS feeds, Syslog, File share mirroring, ICS.

The screenshot displays the Datadiode Appliance web interface. At the top, a navigation bar includes 'Dashboard', 'Status', 'Stored transfers', 'Users', 'Configuration', and 'Services'. A green notification banner states 'Successfully enabled service: ntp-upstream'. The main content area is divided into sections for 'Services', 'Upstream', 'FTP', and 'TCP'. The 'Status' page shows a table of internal processes and services.

NAME	STATUS	ACTIONS
Filtering framework	✓ Running	↻
System logging facility	✓ Running	↻
FTP	✓ Running	↻
SMTP ⓘ	✓ Running	↻
NTP	✓ Running	↻

The SMTP row is highlighted in light blue. A tooltip for the SMTP icon reads: 'The Simple Mail Transfer Protocol, or SMTP, allows for sending emails. The SMTP protocol is widely supported across various platforms.'

At the bottom, a 'Reboot' section explains that rebooting restarts the appliance machine to clear memory and restart unresponsive processes, with a warning that it causes data loss on active transfers. A 'REBOOT' button is located at the bottom right.

Final thoughts

- Know what information / systems to protect
- Be confident about your protection
- Just make sure to be securely protected

Q & A

- * Right here and now
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