Deep Secure Data Diode

Mitigate risk with a guaranteed one way data flow between networks.

The Deep Secure Data Diode mitigates risk because it guarantees a one-way flow, allowing data to be pushed from one network to another without any possibility of information passing in the opposite direction.

One Way – Guaranteed

The Data Diode enforces a one way flow because the source server uses an optical diode to send data to a single strand of fibre and the destination server receives the data through a second optical diode. There is no reliance on firmware or software. In marked contrast to a firewall (just software) this is enforced "on the wire" at a hardware level. This approach is ideal for organisations in defence and high threat industries who need to isolate critical systems and yet allow them to interact with others to exchange information or obtain software updates.

Easy to Deploy and Manage

As an off-the-shelf appliance, the Data Diode can be configured, up and running in under 10 minutes and is managed with a highly intuitive GUI via a Web browser over HTTP(s). The Data Diode maintains a reliable transfer of information and includes flow control mechanisms to make data transfers reliable and error detection mechanisms to detect data loss.

Integrates with Key Business Applications

Unlike many data diodes that force you to modify your applications to work with their technology, the Data Diode uses standard bi-directional protocols like HTTP(S) to permit 'drop-in' transparently. This makes the Data Diode ideally suited to applications such as remote monitoring.
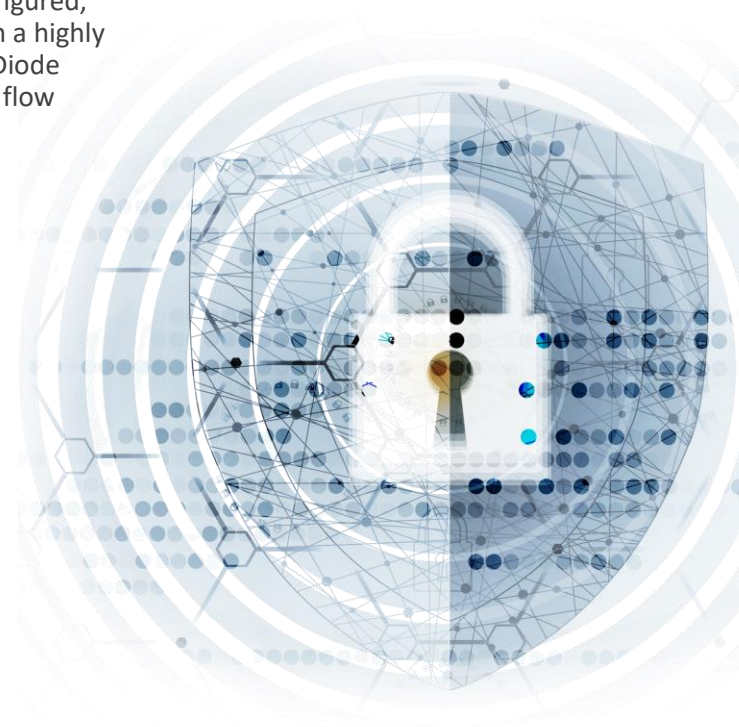
Reduces Manual Overheads

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Extensible

The Data Diode is capable of providing enhanced levels of protection. In addition to enforcing a uni-directional data flow, it can integrate with both on-board and external content checking and content threat removal technologies.

Key Benefits

- Simple setup – and intuitive GUI means the Data Diode is up and running in minutes
- Guaranteed one-way – data transmitted over an optical diode using single strands of fibre optic wire. No firmware or software
- Multi-channelled – so multiple cross-boundary business applications using different protocols and controls can share one Data Diode
- Optional Content Threat Removal –to remove known, zero day and unknown threats in content
- Packaged applications – for file moving, copying and mirroring
- Auditing and off-box logging – for offline forensic examination

Platforms
- 2 x LRB003 appliances; Intel Xeon Quad Core processor 2 x 240GB hard disks, 16GB RAM

Operating System
- Deep Secure Operating System (DSOS)

Browser

- Any HTML5 compliant browser

Supported Protocols
- HTTP(s)
- DSFSP (Deep Secure Sharing Protocol)
- SNMP
- TCP
- UDP
- Syslog

Packaged Applications
- File Mover/Copier
- File Mirror
- Windows Software Updates (WSUS)
- Linux Software Updates (YUM)

Optional EAL7 Solution
- The Data Diode can be deployed to provide organisations seeking the very highest levels of assurance with a Common Criteria EAL7+ solution.

Learn More

For more information on how the Data Diode can be deployed with optional content control, visit **www.deep-secure.com/information-exchange.**