Forcepoint

Data Diodes

How Does it Work?

Hardware-based devices allow the flow of data in one direction only through physical means, such as optical isolators. They provide an absolutely strict physical separation between networks. The air gap between networks can't be jumped with electronic tools.

Benefits & Features:

› Low total cost of ownership
› High level of customization
› Easy deployment
› Integrates with Forcepoint Cross Domain Solutions
› Secure one-way transfer with optical isolation
› Supports various protocols and data types
› Handles large amounts of data. Throughput varies with data type, use cases and protocols.
› Supports local log consolidation of standard operating syslog, binary auditing, and data transfer logging
› High throughput with minimal packet loss while transferring data across two networks
› Intuitive Configuration Interface that simplifies configuration, operation, and monitoring

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Real World Comparison... Think of it like airport security.

GUARD ↘

DIODE ↘

ONE WAY

Security Checks

› Deeper inspection than ID only
› Detailed inspections of personal belongings
› Authorized to take/remove unauthorized/banned items

Airport Exit

› One-way path of exiting
› No security inspections
› Cannot reenter without going through security checks
› No record of leaving airport

Use Cases

Unclassified (e.g. NIPR) to Secret

High Threat Networks (HTN) to Classified Networks

Unclassified to TS

File Transfer Use Case

Optical Separation

Network A

SECURE FILE TRANSFER

1U SERVER

NIC

Pitcher

OWT

Fiber

OWT

Catcher

NIC

1U SERVER

SFTP/SCP

HTTP POST

SECURE FILE TRANSFER

Network B

Servers

Data Storage

Servers

Data Storage

Forcepoint Diode