

vs-diode

Facts & Features



Diodes

genua.



Definition

vs-diode is a device for securing classified information. The data diode only allows transfers in one direction – from the less secure, so-called black network, to the classified red network. Data flow in the opposite direction is consequently blocked, ensuring that classified information cannot cross the interface to the black network.

An important feature of vs-diode is its high performance and reliability in one-way data transfer using TCP protocols such as FTP(S), SMTP(S), HTTP(S)-PUT, as well as the Elastic Logstash protocols Lumberjack v1 and v2. To ensure their fast and reliable transmission, vs-diode provides feedback about successful data delivery. The UDP protocol is also supported.

Typical Use

One-way transfer of e-mails, database or video information, updates for anti-virus or other software in classified red networks.

Throughput Volume

- Up to 8 Gbit/s

Customer Service

- Customer service directly from the manufacturer genua
- Hotline service/update service
- Free hardware support for three years from date of purchase

Reasons to Choose vs-diode

- High security one-way data transfer across black-red transitions
- Supported protocols: Lumberjack v1, v2 and HTTP(S)-PUT for Logstash/ELK Stack, TCP, UDP, SMTP(S), FTP(S), syslog
- Approved up to the classification levels German SECRET, SECRET UE/EU SECRET, and NATO SECRET
- Reliable high availability clusters

Supported Protocols

FTP (file transfer)	+
FTPS (file transfer)	+
SMTP (e-mail sending)	+
SMTPS (e-mail sending)	+
TCP (custom one way data stream)	+
UDP (custom one way datagrams)	+
Lumberjack v1 and v2 (log transfer)	+
HTTP(S)-PUT (log and file transfer)	+
syslog (log transfer)	+

Application Level Gateway

Virus scanning	+
Protocol inspection	+
Internet services	+

Security Mechanisms

Separation kernel	+
Protocol converter	+
Distinct hardware	+
Configurationless part	+
Read-only boot medium	+

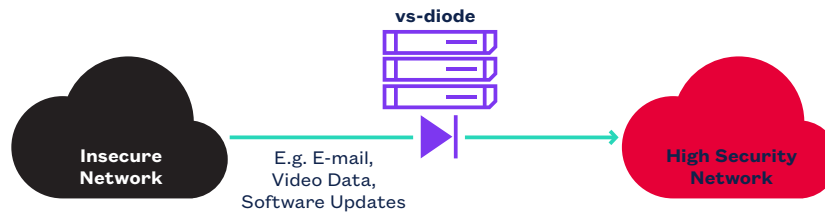
Approval

Classification levels German SECRET, SECRET UE/ EU SECRET, and NATO SECRET	+
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More product
information



Use Case



One-Way Data Transfer to Red Networks

Particularly in the military sector confidential material is stored within classified networks that are well isolated from the outside world. Nevertheless data from less secure black networks is required for efficient

workflows: e.g. e-mails, database or software updates. vs-diode allows direct one-way data transfer into red networks without risking the flow of classified data in the opposite direction.