

Data Diode Absolute Information Protection

Working to become a dependable partner of choice

BAE Systems Insyte's information security products enable classified information sharing, while enforcing network segregation. Highly evaluated, these products provide unrivalled data security and are available off-the-shelf or as part of a total system solution.

The Interactive Link Data Diode (IL-DD) provides a solution for organisations that need to move data from one security domain into a higher security domain. The Data Diode strictly enforces a unidirectional flow of data into the higher security domain, with no return path or back channel for data to flow in the opposite direction. As a result, confidentiality of the data on the high side can never be breached.

Architecture

The Data Diode is a 100Mbps fibre optic hardware device connected between two servers attached to their respective security domains. Data Pump Applications (DPAs), installed on these servers, provide a unidirectional mechanism for transmitting different data types through the Data Diode. These basic DPAs, provided by BAE Systems, can be integrated to meet specific requirements:

- Email transfer application – one way transfer of SMTP Email
- File transfer application – one way transfer of data files
- Data forwarding application – one way transfer of IP packets.

Features

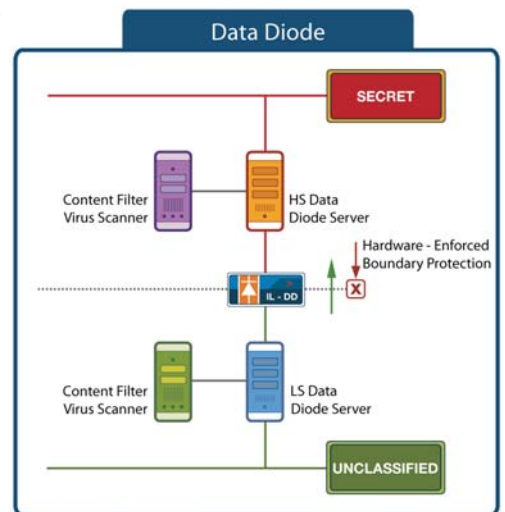
An organisation can choose one or more DPAs to operate through a single Data Diode. BAE Systems' software provides many additional features including:

- Quality of service – allocate bandwidth across the diode for each data pump application
- SNMP – generate SNMP data and traps for network management
- Content filter interface – SMTP MIME interface seamlessly integrates of third party content filters and virus scanners

- Audit and trace logs – generation of extensive logs with support for syslog
- Configuration client - intuitive administration tool for local and remote configuration of the DPAs
- System tuning – tunable parameters for optimising the system for the specific environment.

Security certification

The first and only product in the world awarded the highest security certification, EAL 7+, under the NIAP Common Criteria scheme.



INTERACTIVE LINK DATA DIODE (ILL301)

GENERAL PRODUCT REQUIREMENTS AND TECHNICAL SPECIFICATIONS

SERVER REQUIREMENTS

Technical requirements for servers connected to the Data Diode.

Operating system

These server operating systems are tested and supported by BAE Systems' software solutions:

- Microsoft® Windows 2003/2008 Server
- Red Hat® Enterprise Linux 4 & 5.

System requirements

Minimum requirements for the server running the Interactive Link software:

- Intel® Pentium 4 or equivalent CPU
- 512 MB memory
- 1GB free hard disk space.

Higher server specifications will increase system performance enabling increased data throughput.

Content filter

These content filters are tested and compatible with the Interactive Link products:

- Clearswift MIMESweeper v5.2
- Cybersoft VSTK-T v171
- Surfcontrol v4.7 and v5.0
- Trend Micro ISS v5.5
- NetIQ MailMarshal v6.0.

Fibre cards/media converters

These fibre network interface cards/media converters are tested and known to interoperate with the ILL301 (all available from our price list):

- Alloy 1440ST (modified by Alloy to work with the Data Diode)
- IMC Networks MiniMc 855-10623-TX/RX
- IMC Networks McPC MediaLinX 855-12733-TX/RX
- IMC Networks McPC MediaLinX 855-15733-TX/RX.

ILL301 UNIT SPECIFICATIONS

Dimensions

Height:	2.5 inches (62mm)
Width:	4.7 inches (120mm)
Depth:	6.7 inches (170mm)

Connections

IEEE standard:	IEEE 802.3
Data rate:	100Mbps
Connectors:	1 x receive 1 x transmit MM 62.5/125 micron ST

Wavelength:	1300nm
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Weight

Unpackaged:	2.2 lbs (1kg)
Packaged:	4.4 lbs (2kg)

Power supply unit

Input voltage:	100-240V AC, 50-60Hz, 0.3A
Output voltage:	5.1V DC 2.5A
Connection:	2.5mm socket (2.5mm plug on cable from the included power supply unit)
Polarity:	Internal connection positive with respect to the outer connection

Operating environment

Operating:	5C to 40C (41F to 104F)
Storage:	-20C to 70C (-4F to 158F)

Humidity

Operating:	10% to 90% non-condensing
Storage:	10% to 90% non-condensing

General specifications

LED indicators: Power and link status

Safety and compliance

Safety:	UL 60950 Safety of Information Technology Equipment
Electromagnetic:	FCC Part 15, Subpart B FCC Rules
Environmental:	RoHS 2002/95/EC.

The Interactive Link product suite is originated from Defence Science and Technology Organisation (DSTO) technology.

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