

High Availability Library

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) and Data Pump Applications (DPAs) enable organisations to share information over networks operating at different classifications. Data transfer into a higher classification is achieved while data flow in the opposite direction is prevented, ensuring data confidentiality.

Data diode

The Data Diode is a fibre optic hardware device connected between two servers attached to their respective security domains. DPAs, installed on the 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 an organisation's specific data transfer requirements.

High availability library

The Interactive Link High Availability Library (HAL) has been designed to address the need for highly resilient one-way network links. A set of software libraries works in conjunction with our existing DPAs, to allow clustering of diode connections, enabling automatic failover from a primary to a secondary system, if a problem is detected.

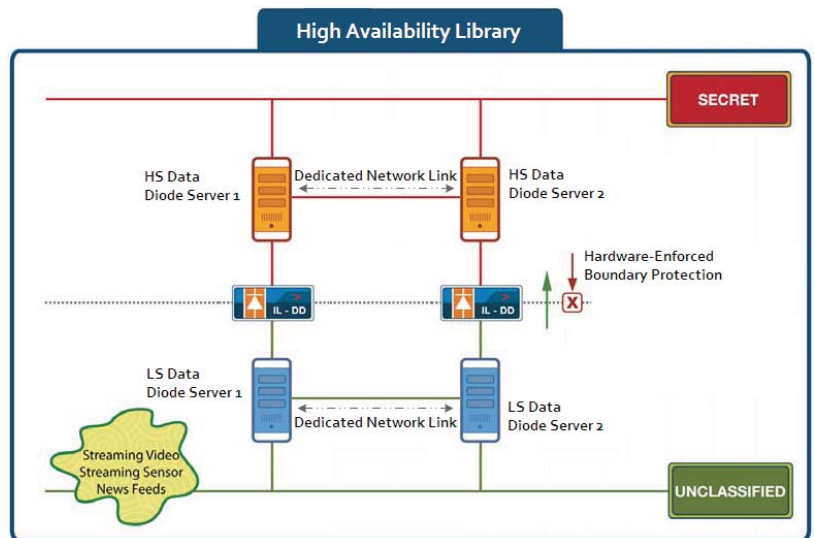
HAL works across two Data Diode systems in an active-passive configuration. It monitors several points of failure and communicates via dedicated network links, allowing for timely replication of data and system failover.

Features

- Comprehensive monitoring of several points of failure
- Extensive audit and trace logging
- Configuration client for intuitive local and remote administration
- Tunable parameters to optimise the system and configure failover tolerances
- Support for Data Forwarding Application (DFA).

Security certification

BAE Systems Data Diode is the first and only product in the world awarded the highest security certification, EAL 7+, under the NIAP Common Criteria scheme.



TECHNICAL SPECIFICATIONS

SERVER REQUIREMENTS

Technical requirements for servers running the HAL software and connected to the Data Diode.

Operating system

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

- Microsoft® Windows Server 2003.

System requirements

The minimum requirements for Interactive Link server components are:

- Quad core 2.4GHz or higher CPU
- Microsoft® Windows Server 2003 R2 SP2 Standard/Enterprise Edition
- 4GB memory
- GB of free hard disk space.

Higher server specifications increase the system's ability to perform at greater throughput rates.

The HAL software requires two Data Diode systems, each running a copy of DFA. Both servers require an additional copper ethernet port for the server-to-server communications required to enable failover.

FOR MORE INFORMATION CONTACT:

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