

# Cross Domain Solutions

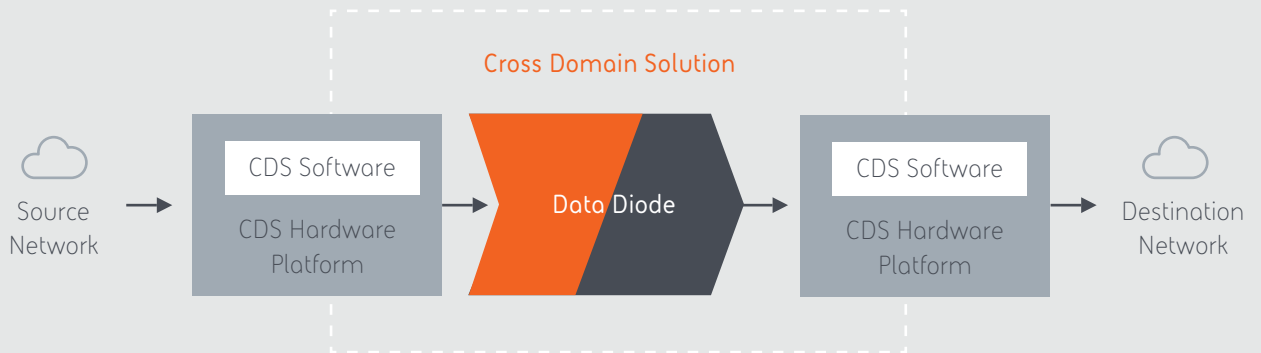
Unrivalled Security

## What is a Cross Domain Solution?

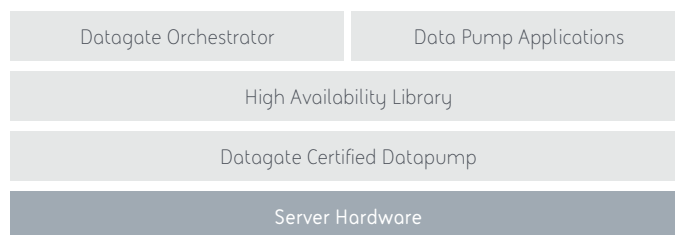
A Cross Domain Solution (CDS) is an information security system that provides tailored security enforcing functions to mitigate the specific security risks of accessing or transferring information between two or more security domains.

## BAE Systems CDS

The BAE Systems product suite covers the full range of hardware and software enforcing technology required to implement a CDS for secure data transfer between two network domains with differently defined security policies.



## CDS Hardware Platform



# CDS Components

**Data Diode** is a networking device that uses fibre optics to enforce a unidirectional flow of data, guaranteeing that no data from the destination network can leak onto the source network.

**Datagate Orchestrator (DO)** is a software platform that reduces the security risk of data passing into and out of a network. It provides a risk-based decision making framework for managing the routing, inspecting and filtering of data, according to a configured set of rules.

The CDS **Hardware Platform** is a certified server specification provided by BAE Systems to ensure optimal compatibility with the Data Diode and CDS software suite.

**Data Pump Applications (DPAs)** are a suite of software components facilitating the secure one-way transfer of data across the Data Diode, while maximising the performance and reliability of the system.

The **Datagate Certified Datapump (DCD)** is a Red Hat Enterprise Linux Operating System that has been security hardened in accordance with the most stringent security controls from several national security agencies. It has been tuned to provide optimal Operating System performance for the DPA, DO and HAL software components.

The **High Availability Library (HAL)** is software that improves the availability of a CDS and its resilience to failure through an active-passive CDS cluster configuration.

## Technical Specifications

Bandwidth	100Mbps, 1Gbps and 10Gbps Data Diode variants available
Configuration	Console, Web
Authentication & Security	<ul style="list-style-type: none"><li>- RBAC (web), DAC (console)</li><li>- Two-person Integrity</li><li>- LDAP integration</li></ul>
Auditing & Monitoring	<ul style="list-style-type: none"><li>- Web interface</li><li>- Email notifications</li><li>- Log files &amp; syslog</li><li>- SNMP traps (v1 &amp; v3)</li></ul>
*Minimum Hardware	<ul style="list-style-type: none"><li>- 8-Core 2.9GHz</li><li>- 32GB RAM</li><li>- 100GB HDD</li><li>- Fibre NIC (for connection to Data Diode)</li><li>- Additional hardware may be required depending on the deployment scenario</li></ul>
Operating Systems	Red Hat Enterprise Linux 6 and 7

\*minimum hardware based upon 100Mb system not including Datagate Orchestrator software

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