

Safely release data from secure networks

arbit
Cross
Domain
Solutions

GATEWAY

The Arbit TRUST Gateway allows you to securely release approved data from highly secure or air-gapped networks, replacing cumbersome and risky manual data transfer and improving efficiency.

SAFE DATA TRANSFER WITH SIGNING TECHNOLOGY

Moving data into a secure network is easily handled by the Arbit Data Diode. However, when data is required to leave a secure network, this is often accomplished using USB-sticks or other portable devices, along with all the inherent security risks.

The Arbit TRUST Gateway (ATG) eliminates the need for risky and cumbersome manual data transfer and ensures that only approved data is allowed to leave the secure network, making this critical communication as safe as possible.

HOW DOES IT WORK?

The ATG uses signing technology to securely identify the source of the released data. Only approved source systems and authorized individuals are able to sign data, which is then allowed to pass through the gateway.

The ATG is based on Arbit Data Diode technology. This protects against attacks from the receiving side as well as the transmitting side. In addition, the system is based on hardened Linux installations running on a diskless system.

The ATG can perform several content checks, including checks developed by Arbit as well as custom checks that can be developed using our Open API.

COMPARE WITH OTHER METHODS FOR DATA EXPORT

	USB	CD-ROM	Arbit TRUST Gateway
Avoids two-way connection when releasing data	No	Yes	Yes
Verifies source of released data	No	No	Yes
Verifies data content according to security policy	No	No	Yes
Ensures release work-flow policy is upheld 24x7	No	No	Yes
Low latency in release of data	No	No	Yes
Automatic threat & content scanning using OPSWAT Metascan	No	No	Yes



TECHNICAL DESCRIPTION



The Arbit TRUST Gateway (ATG) ensures that data released from a secure network is both source and content checked according to company standards, and that no rogue process or system can send data through or even piggyback information on approved transactions.

The ATG acts like a secure platform where several COTS or custom checks can be performed. The ATG is based on the robust Arbit Data Diode technology and consists of two Arbit Data Diodes that are connected in serial. This creates an isolated VOID network which is only accessible from the high side through a diode and so protects the VOID network against all attacks from the low side and from interactive attacks from the high side.

All configuration and program code handling the VOID network is stored read-only so that it is impossible for an attack to change the system in any way. Rebooting the system is guaranteed to restore the approved configuration and the Arbit certified program code.

FEATURES



- Based on 1U rack-mountable units
- Divided into three zones: HIGH, VOID and LOW
- All zones with galvanic separation
- Fiber or copper connectors to external networks
- Read-only boot device
- Low power consumption
- Supports 'Releasing Officer' function
 - Optional 'two key release' (additional manual release verification)
- Low latency
- Optional external content verifiers
- Optional AD-look up verifying sender or content type
- Anti-virus check using OPSWAT MetaDefender (8 – 30 commercial AV engines in parallel)
- File type check (content based)
- Word and tag scan inside documents (MS Office, PDF and more)
- Open API for building custom content verifiers (C++ and Java)

BENEFITS



- Replaces non-secure manual data transfer using USB or similar devices
- Easy to deploy hardware (excluding additional checkers and audit logs)
- Proven transmission stability using Arbit Data Diode technology
- Integrates with existing company infrastructure

SUPPORTED PROTOCOLS



- S/MIME mail integration
- Open API for sending transactions (C++ and Java)
- SitaWare
- Browse Down functionality
- Web Access Gateway

REFERENCE CUSTOMERS

Arbit Data Diode and Arbit TRUST Gateway

KONGSBERG Norway www.kongsberg.com

Arbit RUGGEDIZED C4ISTAR Gateway

The Agency for Governmental IT Services www.statens-it.dk/english

Danish Ministry of Defence Acquisition and Logistics Organisation www.fmi.dk/eng

arbit

Arbit Cyber Defence Systems ApS

Immerkaer 54 | 2650 Hvidovre | Denmark | Email: info@arbitcds.com | VAT DK38991469

www.arbitcds.com