Arbit Trust Gateway

CYBERSECURITY™ MADE IN EUROPE

Data Release from Secure Networks

Safe release of approved data from highly secure and air-gapped networks.

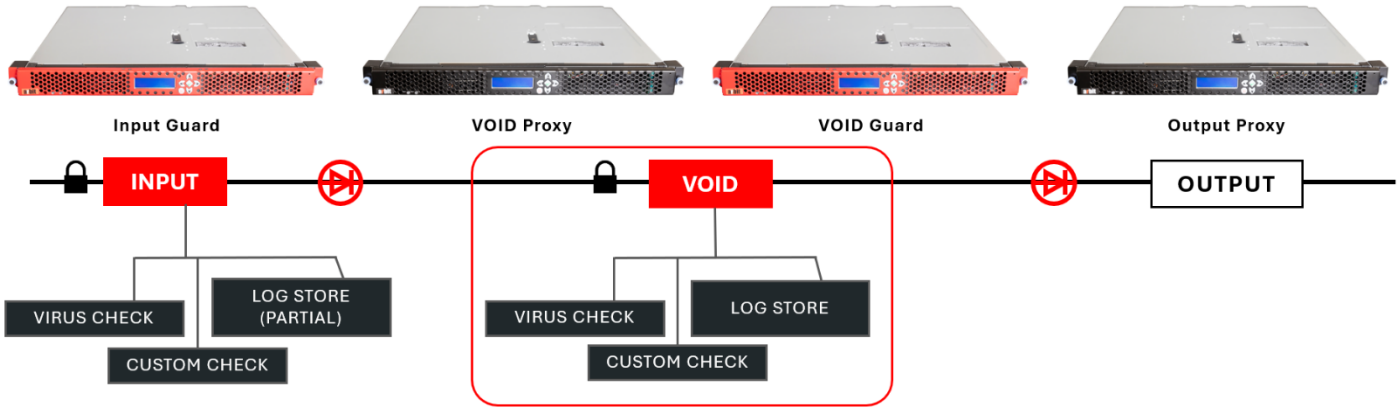
Moving data into a secure network is easily handled by an Arbit Data Diode. However, when data needs to leave a secure network, it is of utmost importance that no secrets or other guarded information is released without prior consent and approval. The Arbit Trust Gateway (ATG) ensures that only approved and releasable data is allowed to leave the secure network in a controlled and secure manner, making the process of data release as safe as possible.

Using USB-sticks or other media devices to release data from highly secure networks, comes with inherent risks. Risks that must be avoided at all times, to safeguard secrets and eliminate leakage of unwanted information release. The Arbit TRUST Gateway (ATG) eliminates those risks and ensures that data released from a protected network is both source and content checked according to security policies.

The ATG uses signing technology to identify the source of the released data. Only approved sources and authorized individuals can sign data, that can pass through the gateway after successful evaluation, ensuring that no rogue process or system sends data through or piggybacks information on approved transactions.

The ATG can perform several content checks, including filters developed by Arbit as well as third parties like multi scanning products using the Arbit Open API.

Arbit Trust Gateway Architecture



Based on the Common Criteria EAL7+ certified Arbit Data Diode the Arbit Trust Gateway consists of two Arbit Data Diodes connected in series. This creates an isolated VOID (Verification of Identity and Data) network between the two Arbit Data Diodes, which is not accessible from neither the high nor low side. This makes the isolated VOID network the perfect place for final filtering and checks, before releasing data, as its verification mechanisms cannot be manipulated.

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arbit

Arbit Trust Gateway Fact Sheet

BENEFITS

- Replaces non-secure manual data transfer
- Proven transmission stability using Arbit Data Diode technology
- Integrates with existing company infrastructure Open API for building custom content verifiers (C++ and Java)
- Supports 'Releasing and Drafting Officer' function using the Arbit Trusted Information Release application
- Full integration with OPSWAT advanced anti-malware platform
- Optional external content verifiers and AD–look up verifying sender or content
- Smartcard configuration management for added integrity and hardening.

FEATURES

- Built on Data Diode technology
- Based on 1U rack-mountable units
- All zones with galvanic separation
- Fiber or copper connectors to external networks
- Read-only boot device
- Low power consumption
- Low latency
- Accredited NATO SECRET

INTEGRATES WITH

- SYSTEMATIC SitaWare (C2 software)
- Arbit Trusted Information Release Portal (Two factor release of data)
- Arbit Desk Top Gateway (Browse down)
- Arbit WEB Gateway (Web access)

DATA Release Method Comparison	USB	ATG
Avoids two-way connection when releasing data	No	Yes
Verifies source of released data	No	Yes
Verifies data content according to security policy	No	Yes
Ensures release work-flow policy is upheld 24x7	No	Yes
Low latency in release of data	No	Yes
Automatic threat & content scanning using OPSWAT MetaDefender™	No	Yes

HW Specifications	Value
Support Servers	Dell PowerEdge XR5610
Memory and Storage	32 GB RAM / 2.5" SATA 16 GB Read Only SSD
Diode principle	Hardware based (optical)
Backflow	None (secured by the laws of physics)
Certification	Based on the Arbit Data Diode Common Criteria EAL 7+. Pending Common Criteria EAL4+
Fiber technology	Single mode 1310 nm
Diode NIC speed	10 Gigabit
Server Size	1U, 19" (4 units required for a complete trust gateway: 1 Input Guard, 1 VOID Proxy, 1 VOID Guard, and 1 Output Proxy)
Server Weight	Max .11 kg
Power supply	2 x 100-240 VAC 50/60 Hz (Hot swap redundant per server)
Dimensions (W x H x D)	19" x 1U x 463 mm

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