

RUGGEDIZED C4ISTAR

arbit
Cross
Domain
Solutions

GATEWAY

SECURELY EXCHANGE C2 MILITARY INFORMATION

The Arbit C4ISTAR gateway allows you to securely exchange C2 information between coalition forces on the battlefield, supporting both automated and manual release as well as import of data.

SECURE AND TIMELY DATA EXCHANGE

Smaller or larger military formations that have deployed cross domain solutions to obtain the highest security, still have the essential need to exchange timely C2 information between subordinate units and/or coalition forces. The Arbit C4ISTAR gateway supports safe and fast data exchange, supporting both automated and manual release and import of data.





Since the import and export of data is subject to many security procedures and regulations, the Gateway supports a full set of security procedures that can be required for data exchanges.

Typically, classifications, markings, release ability, formats, and origin of data must always be verified and checked before data can be released or exchanged. In addition, some types of information exchanges are extremely time sensitive, such as blue force tracking and cross domain call for fire.

The Arbit C4ISTAR gateway allows you to set validations and checks to meet your security profile, including release procedures (two-factor release), data content validation, validation of signing, classification, and other filters such as multiple virus scanning.

Arbit C4ISTAR Gateway is built on Arbit's hardware-based Data Diode technology and therefore offers a continued network separation with no backflow possible.

The Arbit C4ISTAR gateway can be delivered in two variants – a server room version and a rugged version (only hardware is different). The rugged C4ISTAR gateway is designed and built to operate in the battlefield under the most challenging conditions. All units are 1U 19"/2 and a full gateway is only 3U (UPS and power supply excluded) equipped with NATO standard connectors and designed for vehicle mount.

-  Tested to operate in the battlefield
-  Verification of Data Signatures
-  Two factor authentications
-  Open API for custom content filters





FEATURES

The Arbit C4ISTAR Gateway platform allows implementation of different security profiles and offers a range of filters and add-ons. The most important feature is that the robust and open API of the Gateway allows you to program and build your own national security profile independent from any contractor support. This is the highest level of security you can get - you own the data as well as the processes.

SUPPORTED PROTOCOLS

- Web services (HTTP/HTTPS)
- Remote Framebuffer RFB
- SMTP with S/MIME Integration
- Simple file transfer
- Open API for data transfer (C++ and Java)
- Sitaware one-way communication
- ASCA
- SIP3/FFI



Logging

Provides full audit log and syslog.



API

Offers open API for building custom content filters (C++ and Java).



Malware Protection

As an OPSWAT partner, the C4ISTAR Gateway integrates with OPSWAT MetaDefender multi anti-malware scanning and CDR.



Verification of Data Signatures

Uses signing technology to securely identify the source of released data. Only approved source systems or individuals can sign data which is then allowed to pass through the gateway.



Two-factor Authentication

Supports signing as standard and NATO Clearing house functions such as Releasing and Clearing officer.



SIZE

- Based on 1U, 19"/2 components
- Data diode 1U 2x19"/2 units
- Server 1U 1x19"/2
- Full gateway 3U 19"



POWER

- Both Gateway and Data Diode will run on 12-24 V
- Server < 200 W
- Diode < 170 W
- Full Gateway less than 800 W



WORKING CLIMATE / TESTED ENVIRONMENTS

- Temperature shock
- Salt/fog
- Vibration
- EMC/EMI Environment



SECURITY CERTIFICATION

The Target of Evaluation (TOE) ensures NO backflow is possible.

REFERENCE CUSTOMERS

Arbit Data Diode and Arbit TRUST Gateway

KONGSBERG Norway www.kongsberg.com

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

Arbit RUGGEDIZED C4ISTAR Gateway

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

ABOUT

Founded in 2006, Arbit specializes in cybersecurity solutions for organizations requiring the highest security. Arbit's solutions are deployed in top security networks throughout the world, including military organizations, police, and intelligence services.



Arbit Cyber Defence Systems ApS

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