



ARP

AIR-GAP REGULATED PIPELINE



2U RACK-MOUNT APPLIANCE

Automated file transfer between separate networks, with no physical connection

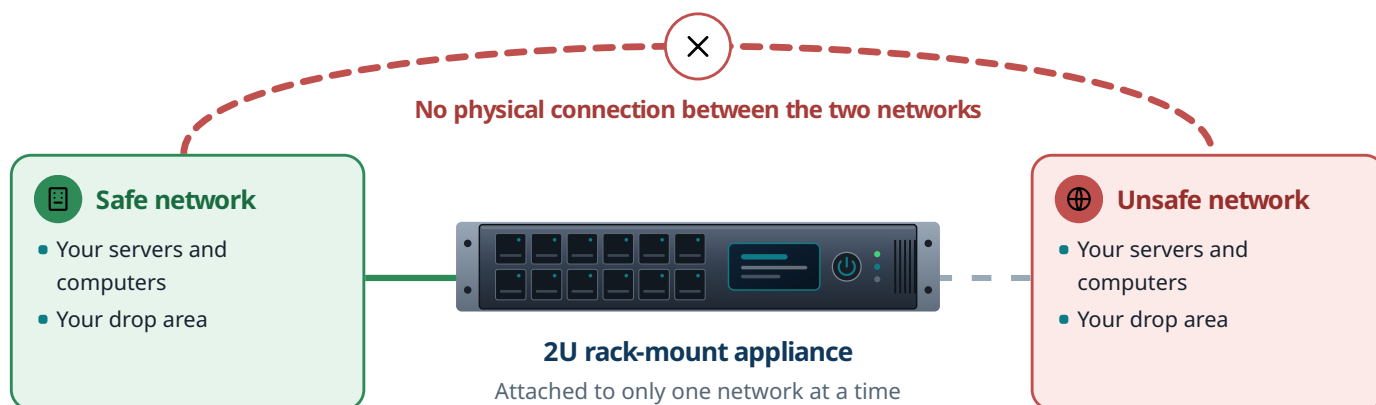
ARP is a 2U rack-mount appliance that moves your systems' files from one network to the other, automatically and under your own policy, without the two networks ever being joined.

For: IT and security managers deciding whether ARP fits their organization

In this catalog: What ARP does, where it sits in your network, who works with it, what you receive, and setup in four steps

<https://www.bardin.tech/en/bardingate-arp/>

Your systems produce files every day that must reach the other network: an ERP export, instrument data, a signature bundle. Moving them by hand is slow and risky, and a permanent cable between the networks destroys the isolation you paid for. ARP is the third way: an appliance that sits between the two networks, inspects every file and lets it cross only after a ruling.



The two networks are never joined. The appliance attaches to one of them at a time and fully disconnects before it moves to the other.



One 2U appliance

Fits in a rack. No server, operating system or extra software to buy.



No physical link

Your two networks are never joined.



Set up in a browser

A guided console in fourteen languages, Persian included.



No Internet needed

Licences, updates and signatures are offline.

✦ What you get



Real separation

The networks are joined neither physically nor over the wire. The appliance itself connects out to your folders and leaves no port open for incoming connections.



One policy per route

You define each route once: which files, from where, to where, with which checks and which approval. After that it runs by itself.



Layered inspection

Structural validation first, then DLP, ClamAV, YARA and the appliance's AI model, all in isolation with no network.



Final quarantine

A file that fails is never delivered, not by an operator and not by an administrator.



A lasting record

For every file you can show what was checked, with which version, against which policy, and what was found.



Easy to run

No scripts, schedules or daily babysitting. The appliance watches itself, alerts you when a route's traffic departs from its normal pattern, and asks you only where you want a human decision.



Who works with ARP

Role	Responsibility
Administrator	Defines routes, endpoints, policies, approval requirements and retention; manages licensing and updates.
Approver	On routes that require it, reviews the item with its evidence and approves or rejects.
Operator	Watches route health and backlog and reviews quarantined items. Cannot release anything.
Auditor	Reads the retained evidence of crossings and administrative decisions.



Three typical scenarios



ERP export to analytics

Nightly files reach the analysis network with no person involved, and only if they pass inspection.



Instrument data out

Data leaves a plant network on a route that accepts only the permitted type and size.



Signature bundle in

Signature updates enter the safe network under a strict policy and a security approver's sign-off.

The path of a file

1

You leave the file

The source system leaves a finished file in the drop area you agreed.

2

The appliance takes and checks

It takes the file, hashes it and runs the validation rules and inspection engines.

3

A ruling is made

That route's policy decides: pass, quarantine, or hand to a human approver.

4

Delivered on the other side

The file is placed in the destination folder and checked; it is byte-for-byte the file that was admitted.

Why delivery is cyclic

Because the two networks are never connected at once, the appliance takes turns between them and in each turn does only that side's work. Delivery is therefore cyclic, not instant; the turn length and batch limits are configurable.



Between two turns the appliance is disconnected from both networks. Work that does not fit a turn waits with its record and is never reported as delivered.

Connecting to your systems

Protocol	Credential	Peer identity
rsync over SSH	SSH key	Pinned host key
SFTP	SSH key	Pinned host key
SMB3	Kerberos, with signing and encryption	Service name and realm

What you receive and what you provide

Item	What it means
The appliance	A 2U rack-mount appliance, ready as delivered. There is no server, operating system or extra software to choose or install.
Space and power	2U of space in a standard rack, and power.
Network	A connection to the Safe, Unsafe and management networks. The first two are never joined to each other.
Day to day	Just a browser. The console speaks fourteen languages, Persian included.
Internet	Not needed; licence, updates and signatures are offline and signed.

✓ Up and running in four steps

1

Rack it

Mount the 2U appliance and connect power and the Safe, Unsafe and management networks.

2

Open the console

Open the console in a browser. A code on the appliance's own display proves you are at the unit.

3

Guided setup

Steps run in order and each tests itself: hardware, time, network addresses and the first administrator.

4

Accept

Take the signed commissioning evidence bundle; the appliance is ready for work.

? Quick answers

? Will my two networks be connected?

No. There is no physical connection between them. The appliance attaches to one at a time and disconnects before moving to the other.

? Is anything installed on my systems?

No. The source system only leaves a finished file in a folder; the appliance connects to it.

? How soon does a file arrive?

Cyclic, not instant, because the appliance works in turns. You set the length of the turns.

? If a file is rejected, is the sender told?

No, by design. The outcome shows only in the console and audit, so the answer never becomes a channel between the networks.

? Can a quarantined file be released?

No, nobody can. Correcting the policy and re-sending from the source is the right way.

? ARP or ART?

If systems send files automatically, ARP. If people send files one by one, ART.

We do not sell movement; we sell provable crossing.

More about this product

CATALOG 2

Routes and policy

CATALOG 3

Assurance and quarantine

CATALOG 4

Security and operations

For advice, a demonstration and contact details:

<https://www.bardin.tech/en/bardingate-arp/>



Specifications may change without notice.