



AMG

AIR-GAP MAIL GATEWAY



2U RACK-MOUNT APPLIANCE

Transparent email transfer between two separate networks, with no physical connection

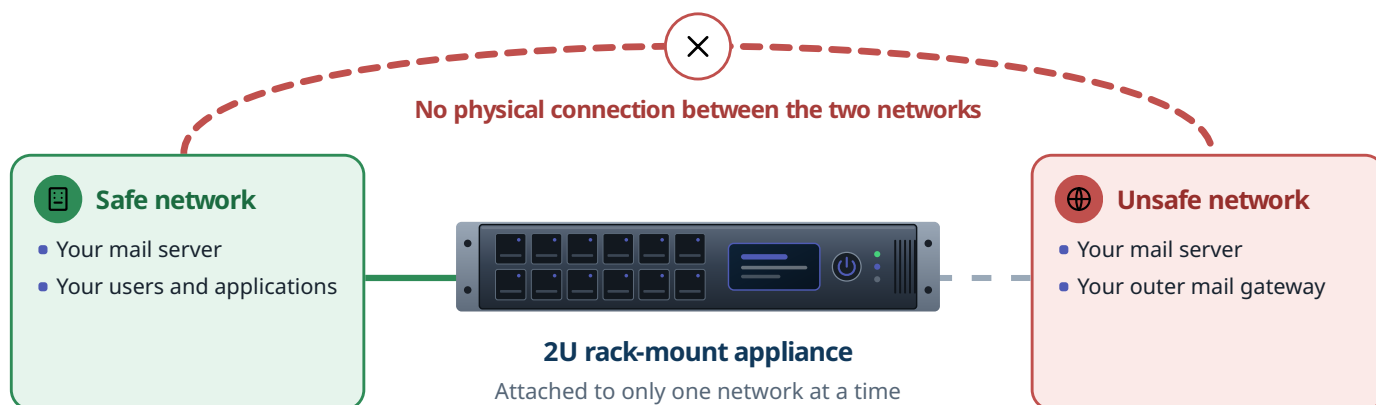
AMG is a 2U rack-mount appliance that relays email from one network's mail server to the other's, unchanged and with a durable queue, without the two networks ever being joined.

For: IT managers and mail administrators

In this catalog: What AMG does beside your mail gateway, the path of a message, what you receive, and setup

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

Email is the commonest way data leaves one network for another, and the hardest to put behind a gap. AMG does not let the two mail servers talk directly; it accepts the message in the middle, makes it durable and, when the path is open, hands the same message to the server on the other side.



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 new mail server to buy.



No physical link

Your two networks are never joined.



Mail unchanged

Envelope and content arrive as they were sent.



A durable queue

Survives a power loss and one disk failing.

✦ What you get



Transparent two-way relay

The SMTP envelope and content arrive unchanged; only the standard Received trace header is added.



Only two permitted peers

Only the two configured IP addresses may submit mail. AMG is never an open relay.



TLS is required by default

The peer's certificate is validated; mTLS and SMTP AUTH are optional. Turning TLS down needs a warning and is audited.



Visible failure

A permanent failure produces a standard DSN to the originating MTA; no message is silently dropped.



Events for your SIEM

Accepted, delivered, deferred and failed, with no subject or body and with pseudonymized addresses.



Easy to run

You enter two IP addresses and the certificates in the console. After that the queue, retries and reporting run by themselves, and you are alerted when the mail flow departs from its normal pattern.

👤 AMG next to your mail gateway

This release is deliberately narrow. Content inspection, anti-malware, SPF, DKIM, DMARC and spam rejection stay with your own mail gateway on each network; AMG only bridges the gap.

AMG does	AMG does not
Accept SMTP from two named MTAs	Mailboxes or local delivery
A durable queue and retries	Virus or spam scanning
DSNs to the sender	Recipient or domain validation
Monitoring and SIEM events	Splitting a multi-recipient envelope by domain

📄 Three typical scenarios



Mail out of the internal network

The internal mail server, with no direct path to the Internet, hands mail to the outer network's server.



Mail in from outside

Your outer gateway sends already-inspected mail on; AMG only bridges the gap to the internal server.



Operational alerts

Monitoring notifications from an isolated network that must reach outside support.

The path of a message

Safe-side mail server

Your MTA, at a fixed IP address

AMG on the 2U appliance

One local Postfix with a durable queue

Unsafe-side mail server

Your MTA, at a fixed IP address

Direction is decided only by the IP address of the peer that connected; never by recipient, sender, domain or headers.

1

Your MTA sends

The source mail server connects to AMG and hands the message over like to any other mail server.

2

AMG makes it durable

Only after the durable write does it return success, so an acknowledged message is never lost.

3

Delivered across

When the path is open the same message reaches the opposite MTA; if not, the queue retries.

Path closed? The message waits

Safe-side turn

Apart

Unsafe-side turn

Apart

Safe-side turn

Time

Because the networks are never connected at once, the message waits in the queue until the destination side's turn. That wait is an ordinary deferral, not an error.

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.

Then you enter the two MTAs in the console: each one's IP address and port and, if needed, certificates. Press Apply and the appliance tests the configuration before it goes live.

? Quick answers

? Will my two networks be connected?

No. There is no physical connection between them; AMG only relays messages between the two mail servers, in turns.

? What changes on my mail servers?

Each MTA is set to hand mail for the other side to AMG. The two MTAs have fixed, different IP addresses.

? Does AMG read or change my mail?

It neither inspects nor changes content; only the Received trace header is added.

? If the other side is unreachable?

The message waits in the durable queue and is delivered later; the default queue lifetime is 5 days, configurable.

? If a message cannot be delivered?

A standard DSN goes back to the sender; no message is silently dropped.

? Does it need DNS or the Internet?

No. Not even DNS or MX is looked up; connections always go to a fixed IP address.

Your mail arrives unchanged or fails in a visible, standard way; it is never lost in silence.

More about this product

CATALOG 2

Mail flow and queue

CATALOG 3

Security and isolation

CATALOG 4

Operations and integration

For advice, a demonstration and contact details:

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



Specifications may change without notice.