AMG

AIR-GAP MAIL GATEWAY

2U RACK-MOUNT APPLIANCE

Operations and integration: from the rack to monitoring

The console, one-file configuration, commissioning, updates, recovery and what your organization needs to provide, all for a team that does not want to log in to the appliance.

For: Mail and IT administrators

In this catalog: The console, commissioning, updating and rolling back, recovery, installation, and the checklist before going live

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

AMG is designed for a team that does not want to log in to the appliance. Everything needed is done in the browser console: configuration, seeing the queue, the reason for a deferral and one safe action, Retry Now.

Your two networks stay separate and are never physically connected to each other; the 2U rack-mount appliance is attached to only one of them at any moment.

The AMG console

Area	What you see and do
Dashboard	What is deferred or stopped and why; what was relayed over a chosen window; how the two directions compare; and whether the peers and the appliance can work at all. Warnings that need a person are surfaced here.
Settings	Safe and Unsafe peers, SMTP security, queue, retry, size and retention; each a defined setting, never a raw key.
Configuration flow	Draft, validate, diff and an explicit apply; if it is rejected nothing changes.
Queue	Each row: state, age, direction, size and a stable, redacted failure reason. Retry Now, with confirmation and audit.
Health	Capacity, deferral and expiry warnings, and the health of the peers.

No demonstration data

Every figure on every page is read from the appliance. This release deliberately has no Delete, Hold or Release, no raw queue files and no free editing of `main.cf`; only Retry Now exists.

Commissioning, guided

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 peers, TLS and, if needed, mTLS and AUTH in the console and press Apply; the appliance tests the configuration before activating it.

Configuration is one file

Every administrator setting lives in one versioned configuration file that activates atomically. Postfix's files are derived from it, never the other way round, so replacing the appliance means importing that file.

Updating and rolling back

- **Packages are signed and offline.** One without a valid signature, or below the recorded release sequence, is refused (anti-rollback); ordinary downgrade is prohibited.
- **Two slots.** An update is written to the other slot, booted once as a trial and committed only after health checks pass; otherwise the unit falls back to the previous version by itself.
- **Data is separate from software.** ClamAV signatures, YARA rules and validation schemas arrive in a data-only package that never changes software.

During an update, new admission pauses with 4xx, open transactions finish and the queue is left untouched.

Self-repair

The appliance assumes nobody can reach it, so it repairs itself. It has no workstation, screen or routine SSH, and no recovery design may require reaching a failed unit.

Level	What it does	What survives
Soft reset	Returns software to the last known-good state; the same mechanism an update's fallback uses.	Identity, configuration, logs and audit
Hard reset	Returns the unit to its pre-commissioning state; it erases rather than restores.	Nothing; export the audit first

Replacement and recovery

Situation	The right path
One failed disk	Replace per the runbook; the volume stays healthy or recoverable.
Power supply or fan	Vendor procedure under maintenance, then re-check readiness.
Motherboard or security chip	The appliance asks for the recovery secret once, at the unit; it keeps its identity, configuration and licence.
Whole appliance lost	A replacement appliance: fresh commissioning, configuration import, secrets re-entered and endpoints re-established. The old identity is never cloned.

The appliance and installation

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.

Fitting into your organization

Internet	Not needed; licence, updates and signatures are all offline	**Your MTAs**	SMTP with TLS required; optional mTLS and AUTH
Your SIEM	Syslog over TLS with RFC 5424 JSON or CEF	**Console languages**	Fourteen, including Persian, English and Arabic
Capacity	No licence cap; limits come from hardware and storage		

Pre-go-live checklist

1. The 2U appliance is racked and connected to the Safe, Unsafe and management networks.
2. Two mail servers with fixed, different IPs and their TLS certificates are ready; if you want mTLS or AUTH, the secrets are at hand.
3. Commissioning has reached ready and the signed evidence bundle has been exported.
4. The peers are entered and applied in the console; a test message has crossed in both directions and shows in the queue.
5. The SIEM destination is set and events arrive; deferral and near-expiry alerts exist in your monitoring.
6. A configuration export has been taken and stored under two-person custody; repeat it after every change and at least weekly.

Every figure in the console is read from the appliance; there is no demonstration data in it.

More about this product

CATALOG 1	CATALOG 2	CATALOG 3
Product overview	Mail flow and queue	Security and isolation

For advice, a demonstration and contact details:
https://www.bardin.tech/en/bardingate-amg/

Specifications may change without notice.