ESB — Enterprise Service Bus

Categories: Application Info · Context: ESB · Exported: 2026-06-22 08:03

Infrastructure (auto-generated)

Context: ESB

DR

Name	Hostname	IP	Status	Role	OS	Loca
UN-API-R-CL-001.edc.un.org	NYVM2519	10.130.131.102	active	API server	RHEL 7.9	—
UN-API-R-CL-002.edc.un.org	NYVM2520	10.130.131.103	active	API server	RHEL 7.9	—
UN-API-R-DB-001.edc.un.org	NYVM2531	10.130.132.67	active	MySQL cluster node	RHEL 7.9	—
UN-API-R-DB-002.edc.un.org	NYVM2532	10.130.132.68	active	MySQL cluster node	RHEL 7.9	—
UN-API-R-DB-003.edc.un.org	NYVM2533	10.130.132.69	active	MySQL cluster node	RHEL 7.9	—
UN-API-R-GW-001.edc.un.org	NYVM2517	10.130.131.100	active	WSO2 API Gateway	RHEL 7.9	—
UN-API-R-GW-002.edc.un.org	NYVM2518	10.130.131.101	active	WSO2 API Gateway	RHEL 7.9	—

PROD

Name	Hostname	IP	Status	Role
UN-API-P-CL-001.edcv.un.org	vavm0757	10.130.3.80	active	API serve
UN-API-P-CL-002.edcv.un.org	vavm0763.edcv.un.org	10.130.3.86	active	API serve
	vavm0764.edcv.un.org	10.130.3.87	decommissioned	

Name	Hostname	IP	Status	Role
UN-API-P-CL-003.edcv.un.org				API serve
UN-API-P-DB-001.edcv.un.org	vavm0768	10.130.4.77	active	MySQ clust node
UN-API-P-DB-002.edcv.un.org	vavm0769	10.130.4.78	active	MySQ clust node
UN-API-P-DB-003.edcv.un.org	vavm0771	10.130.4.80	active	MySQ clust node
UN-API-P-GW-001.edcv.un.org	vavm0756	10.130.3.79	active	WSO API Gate
UN-API-P-GW-002.edcv.un.org	vavm0762	10.130.3.85	active	WSO API Gate

ESB — Enterprise Service Bus

Status

- **Handover planned:** Before end of June 2026
- **Migration:** Dev team migrating to Azure API Manager — they will take over the application
- **Current owner:** DS team (Carlos)

Tech Stack

- **Container:** JBoss Fuse
- **API management:** WSO API Manager (API endpoints)
- **Database:** MySQL — 3 nodes, clustered

Architecture

- Java-based middleware
- Sits between systems as integration layer
- WSO handles external API endpoints

Servers

- Located at: (TBD — on-prem RHEL, see ST items)
- Environment: PROD + DR (alignment gap known issue)

Key Contacts

- Dev team: handling Azure API Manager migration
- DS team (Carlos): current operational owner

Known Issues

- ESB DR alignment gap (PROD vs DR not in sync)
- Log4j vulnerability — closed with justification (Azure migration planned)
- SCOM alerts for REST API services unavailability (IM-1-12591273206)

Open Tasks

- Alert mechanism in ESB (task-2746e915e7) — in sprint W13

Knowledge Gaps

- [ ] List of PROD server hostnames
- [ ] ESB DR gap — what exactly is out of sync?
- [ ] Most common incidents and resolution steps
- [ ] WSO API Manager version

Handover Status (updated 2026-03-26)

- Zero DS involvement planned post-handover, but not fully decided yet
- Azure API Manager migration ongoing — dev team leads

Upstream connections

- Transparent to DS — not worth documenting fully given handover timeline

SCOM Monitoring (as of 2026-03-27)

Current active monitors

- Server health (general)
- CPU / disk
- TCP check on api.un.org:443

Known gap

- ESB API Services panel in SCOM is **empty** — old API monitors were removed and never replaced
- Only app-level check is TCP port → does NOT confirm the application is actually working

Proposed fix (pending dev team response)

- Option A: Dev team points to an existing meaningful API endpoint to monitor
- Option B: Dev team creates a lightweight endpoint returning HTTP 200 OK
- Next step: Saurav (dev team) to confirm which endpoint to use
- Once confirmed: configure in SCOM, possibly open RFS

Related SCOM dashboards

- Critical Applications dashboard
- ESB dedicated dashboard

Azure API Manager (APIM) Rollout

- **Status:** In progress — dev team migrating APIs one by one
- **Target completion:** End of June 2026
- **Contact:** Saurav Datta (ESB developer)

PMDS 2026 Objective (added 2026-04-01)

Objective:
Support the handover of the ESB platform to the development team and contribute to infrastructure cost optimization, ensuring a clear transition path by end of cycle.

Planned Outputs:

- Support infrastructure cost optimization by assisting with resource consolidation, removal of unnecessary servers, and migration to Proxmox to reduce operational costs.
- Collaborate with the development team to define and document the ESB handover process, covering infrastructure scope, responsibilities, and transition milestones.
- Contribute to the migration of remaining API endpoints and post-migration infrastructure definition in coordination with the development team.
- Ensure all prerequisites for removing ESB from the support catalog are identified, tracked, and progressed toward completion.

Notes:

- PMDS cycle ends May 13, 2026 (mid-term review); full handover target is end of June 2026
- API migration will not be complete by May 13 — outputs are framed as contributions/in-progress
- Carlos's role: supporting (not leading) both handover and cost rationalization

Cost Rationalization & Proxmox Migration (added 2026-04-01)

- **Parallel effort** running alongside the Azure API Manager migration
- Goal: reduce operational costs — consolidating resources, removing unnecessary servers
- VMware → **Proxmox** migration underway (cost-driven, not part of Azure migration track)
- Some servers already decommissioned (Jan–Apr 2026)
- Important distinction:
  - **Partial decommission** = cost rationalization (remove unused infra now)
  - **Full decommission** = end of migration (all on-prem ESB infra gone post-migration)
- Carlos supports this effort; does not own cost targets or manage the rationalization project