

VPN / Remote Access demo — gap report (2026-06-13)

From VPN_DEMO_GAPS_20260613.md

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Source: VPN_DEMO_GAPS_20260613.md — section links work in PDF viewers that support internal anchors.

See also REMOTE_ACCESS_VALIDATION.md, REMOTE_ACCESS_IMPL.md.

Fixed today (prod BE)

- config.php remote_access **block** was missing — blocked real WireGuard connect credentials
- Installed via examples/wireguard/install_be_remote_access.sh
- **VPN traffic counters** in admin expanded device row (WireGuardTrafficStats.php)
- sudoers: wg show wg0 dump for nginx FPM user

Fixed in repo (awaiting BE sync)

- **MariaDB** NULLS LAST — listDevices() ORDER BY broke dashboard on prod (HTTP 500); fixed to (last_seen_at IS NULL), last_seen_at DESC
- **Dashboard perf** — issue counts use indexed reports.device_id via devices.external_id instead of payload_json LIKE
- **Operational docs** — REMOTE_ACCESS_IMPL.md / REMOTE_ACCESS_VALIDATION.md now use prod **45340** and **172.200.2.0/16** (proposal doc still uses example 51820)
- **Orphan wg peer cleanup** — WireGuardPeerProvisioner::pruneOrphanPeers(), hourly via purge_remote_access.php; manual scripts/sync_wg_peers.php --dry-run|--apply
- **CLI defaults** — ra_udp_debug.sh / ra_lib.sh help and fallbacks match prod subnet

Verified OK

- wg0 on BE, endpoint ra.apps.f0xx.org:45340
- UDP 45340 open on public IP
- Heartbeat disable/enable API
- Mobile boot restores RA mode (RemoteAccessCoordinator.onBootIfNeeded)
- App wait-state + diagnostics (idle vs fail-reason); 30s heartbeat timeout

Open (PO / device)

1. Full ra_e2e_cli.sh — needs admin login on laptop
 2. UDP handshake + ping — needs phone or ra_udp_debug.sh --apply
 3. SSH passthrough — RSSH track, not WG v1
 4. Persistent traffic history — live stats only today
 5. Whitelist + device E2E — human validation in progress
- Journal: /shared/journal/cluster0.journal.tsv (tag vpn-demo).