

BRANCH NETWORKING · CENTRALLY MANAGED

TWO HUNDRED BRANCHES. ONE STANDARD.

EdgeGate puts routing, segmentation, guest access, VPN and a defensible audit trail into one fanless appliance at every site — built from one template, rolled out from a single console, and still running correctly when that console is not reachable.

ONE CONSOLE

Sphere Central for the estate

ONE TEMPLATE

Every branch configured alike

SEGMENTED

Tills, staff, guest and cameras apart

AUTONOMOUS

A branch survives losing the WAN

AUDITABLE

Hash-chained records per site

EDGE GATE FOR MULTI-SITE ESTATES

ONE APPLIANCE, EVERY BRANCH, THE SAME EVERYWHERE

No enterprise sets out to run two hundred different networks. It happens one exception at a time — a site commissioned by a local contractor, a rule added during an incident and never removed, a router swapped under pressure and never brought back to standard. EdgeGate replaces that drift with a single definition, applied everywhere, with drift reported automatically.

WHAT EDGE GATE REPLACES IN A BRANCH

The branch router — static routing, VLANs, DHCP with reservations, NAT to the ISP.

The firewall — default-deny segmentation between tills, staff, guest and cameras.

The guest wifi gateway — a captive portal with time-limited accounts, on its own VLAN.

The VPN concentrator's far end — a WireGuard or IPsec tunnel to the data centre, plus remote access for support on whatever client the engineer already has.

The logging appliance — a hash-chained record of sign-ins and connections, archived off-site nightly.

The site survey — a live inventory of everything on the branch network, built passively.

WHAT INCONSISTENCY COSTS

Consistency. When no two branches are the same, nothing can be reasoned about centrally — “is the guest network isolated everywhere?” becomes a survey, not a question.

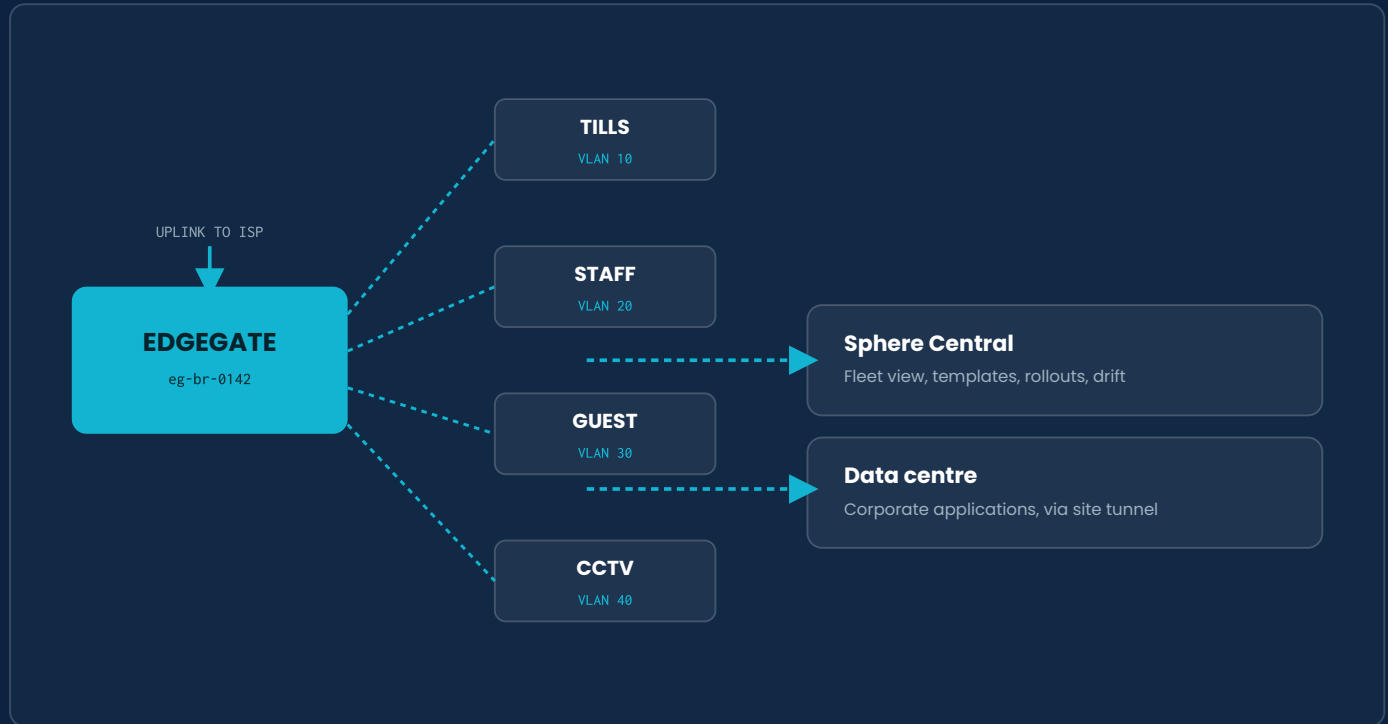
Travel. Every change that cannot be made remotely is an engineer in a car. For a chain, the cost of a network is the number of times somebody has to stand in front of it.

Evidence. When an auditor asks who was on the guest network at a named branch last month, the answer has to exist, be complete, and be something nobody could have quietly edited afterwards.

THE STANDARD BUILD

HOW EDGEGATE STANDARDISES A BRANCH

A branch has the same shape whether it is a shop, a clinic or a depot: something that takes money, staff who need the corporate applications, visitors who need the internet and nothing else, and cameras that should talk to exactly one recorder. EdgeGate makes that shape a template — the branch number is the only thing that changes.



One EdgeGate per branch, four segmented VLANs, one tunnel to the data centre, one connection to Sphere Central

Eight ports, so the awkward branch fits too. Six copper and two SFP, fanless, no moving parts. The flagship site with a separate stockroom switch uses the same appliance as the kiosk with one till.

It keeps running without you. Configuration lives on the appliance, not in the cloud. If the uplink drops or the manager is unreachable, the branch keeps routing, filtering and recording exactly as it was.

REFERENCE PLATFORM

SPECIFICATIONS

PROCESSOR	Intel Atom C3558, 4 cores
MEMORY	16 GB
NETWORK	6 × copper (M1–M6), 2 × SFP (T1–T2)
COOLING	Fanless, no moving parts
TYPICAL LOAD	~75 MB RAM, ~1% of one core

Branch networking. Static routing, 802.1Q VLAN sub-interfaces, stateful firewall, NAT and port forwarding, five-band traffic shaping, captive portal with time-limited accounts.

Sphere Central. Live per-device management from one console, templates with per-device variables, canary-then-batch rollouts, hourly drift detection that reports rather than silently corrects.

Audit and records. Hash-chained append-only store per branch, portal sign-ins and configuration changes, nightly archiving over HTTPS or SFTP with the host key pinned.

Start with one branch

An evaluation pair — one appliance and a Sphere Central instance — ships configured for your addressing. Commission a real site, turn it into your standard build, and watch the second branch take twenty minutes.

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