EmaLite



SERVICE BROCHURE

Network Infrastructure

Campus, branch and wide-area networks that carry production traffic without drama — designed to be operated, not just to pass a commissioning test.

What we are usually called in for

The network is the first thing blamed and the last thing documented. Most of the estates we are called into work, in the sense that packets arrive. What they lack is a design anyone can explain: addressing that grew by accident, VLANs nobody can retire because nobody knows what is on them, and failover behaviour that has not been tested since the day it was installed.

That is tolerable until it isn't. A link fails at the wrong hour, or an application team asks for something simple and the answer takes three days because the answer is not written down anywhere.

Our approach

We start from the traffic, not the catalogue. What actually moves, between what, at what volume, with what tolerance for loss. The design follows from that, and every component in it has a reason we can state out loud.

Fabrics are sized against real profiles rather than vendor defaults. Failover paths are tested at commissioning, not assumed. Addressing and VLAN allocation get a single source of truth on day one, because the alternative is the estate we were called in to fix.

What the work involves

Campus & data centre switching

Layered or spine-leaf fabrics with deterministic failover. Policy fabrics on Cisco ACI with VXLAN and BGP EVPN where the estate justifies one.

Routing & SD-WAN

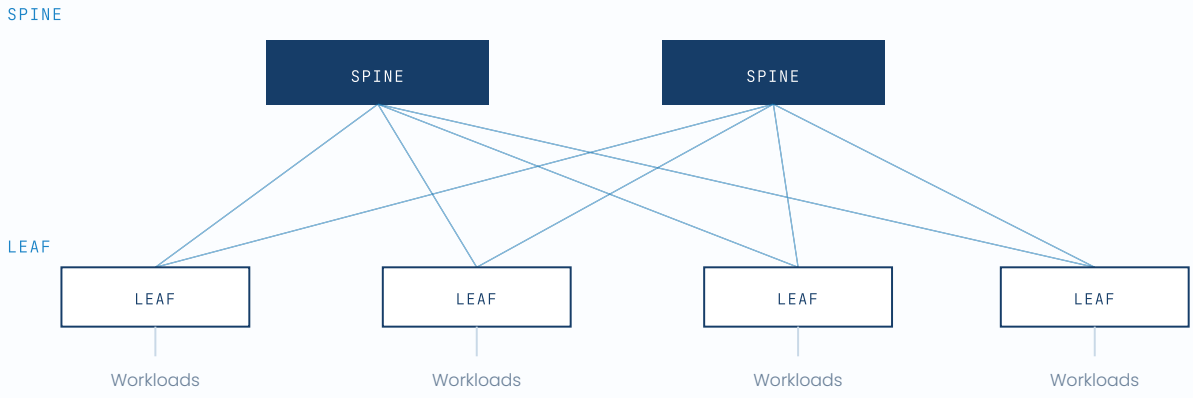
Multi-site connectivity with application-aware path selection, policy-based failover, and transport cost that can be measured rather than hoped for.

Enterprise wireless

Predictive and validated surveys, high-density design for the busiest hour rather than the average one, seamless roaming, per-SSID segmentation.

Monitoring & assurance

Flow, telemetry and synthetic testing wired into dashboards your team reads during an incident — not dashboards nobody opens.



SPINE-LEAF DATA CENTRE FABRIC — EVERY LEAF ONE HOP FROM EVERY OTHER LEAF

How it is sequenced

STAGE	WHAT HAPPENS
Measure	Traffic profiles, current topology and addressing captured as they are, not as documented
Design	Fabric, routing and wireless design sized against those measurements, with the reasoning written down
Stage	Configuration standards applied and the build validated in a staging path before it touches production
Cut over	Sequenced windows with acceptance tests and a rollback defined for each one
Hand over	As-built records, monitoring in place, and the failover test results attached

What is delivered

Every engagement ends with something you keep. For this service, that is:

- A topology and addressing plan with a single source of truth
- Documented capacity headroom per link, so growth is a decision rather than a surprise
- Failover paths tested at commissioning, with the results written down
- Configuration standards applied consistently across every device
- Monitoring in place before handover, not after the first outage

Technologies

ROUTING & SWITCHING | CISCO ACI | VXLAN | BGP EVPN | SD-WAN | WI-FI 6E | OSPF | NETFLOW | IPAM

> WHERE THIS USUALLY STARTS
>
> Often with a question that sounds small: can we add another two hundred devices, or why does this site behave differently from the other eleven. The answer tends to be architectural, which is why the first thing we do is measure.

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Start with the estate you actually have.

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Send us the current topology, or the problem you cannot get past, and we will tell you what we would do about it.

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This document is provided for information. Technical detail is indicative and is confirmed at design stage.