

— NETWORK ENGINEERING FOR SHIPS AND FLEETS

A ship's digital value starts with the network.

Seafy designs, upgrades and builds the network infrastructure of every ship, from structured cabling to Wi-Fi coverage. A scalable foundation, monitored over time, designed to carry the services used by passengers, crew and onboard systems.

An unplanned network limits every service.

As onboard services multiplied, the network grew over the years, often with no single design behind it. The result is infrastructure that is hard to govern, carrying passenger services, payments and operational systems side by side.

01

Coverage never measured

Access points installed without a coverage survey leave dead zones exactly where passengers gather most.

02

A flat, fragile network

Guest traffic, payments and operational systems share one network, with no segmentation and no backbone redundancy.

03

No current as-built

Without a documented topology, every fault, audit or upgrade starts with a fresh survey.

A weak network limits revenue and new services

The onboard network never appears in the commercial plan, yet it determines the quality of the digital services, how far they scale and the revenue they can generate.



Limited Wi-Fi revenue

Patchy coverage and poor performance reduce both purchases and passenger satisfaction.



Complaints and refunds

Connection problems generate support requests, refunds and negative reviews.



Services that cannot launch

Shop, TV, advertising and IoT need a network able to carry the traffic, the devices and new integrations.



Longer time to market

Every new project needs preliminary checks and works, delaying the release of onboard services.

Technical inefficiency multiplies ship by ship

Without a shared network design, the company carries recurring costs for bandwidth, security, diagnosis and onboard work.



Ungoverned bandwidth

Guest traffic and onboard systems compete for the same capacity, with no defined priorities.



Greater security exposure

Devices and services on one segment widen the attack surface and make controls and audits harder.



Slow, costly diagnosis

Without a current topology, every incident needs fresh checks and often a visit on board.



Work repeated on every ship

Different equipment, configurations and vendors make it impossible to apply the same fix across the fleet.

— THE SOLUTION

Every ship has its own network. The fleet has one standard.

We start from the existing infrastructure and design the network around the real constraints of each ship. The architecture and design criteria then become a common standard, managed over time across the whole fleet.

PHASE 01

Survey, ship by ship

We map cabling, cabinets, coverage and traffic, taking into account the services planned on board.

- ✓ We assess what can be kept
- ✓ We quantify the work required

PHASE 02

Design and build

We size and build the network on the data collected, documenting every component installed.

- ✓ Verified coverage and as-built documentation
- ✓ An architecture repeatable on the other ships

PHASE 03

Continuous management

The same team monitors, supports and optimises the network once it is in service.

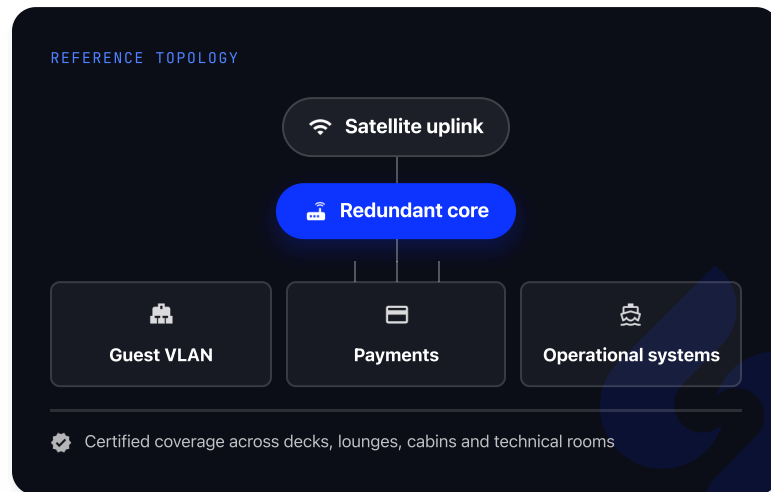
- ✓ Continuity between design and operation
- ✓ Optimisation based on real usage data

— HOW IT WORKS

The network that carries every onboard service.

An architecture designed for each ship: segmented traffic, a redundant core and coverage sized around the areas and services actually used. The topology is documented and stays with the company.

- ✓ Guest traffic, payments and operational systems separated
- ✓ A redundant core to keep services running
- ✓ An architecture repeatable across the fleet



One team, from analysis to the network's evolution

One contract and one point of contact for the whole life cycle, with work planned around routes and the ship's layover windows.

01

Survey

We measure coverage, existing infrastructure and operational constraints.

Result: a network baseline.

02

Design

We define topology, segmentation, equipment and the coverage plan.

Result: an approved detailed design.

03

Build

We install cabling, fibre, cabinets and equipment without disrupting the ship's operation.

Result: the network installed and configured.

04

Testing and handover

We verify coverage and performance in every area covered by the design.

Result: test results and as-built documentation.

05

Support and evolution

We monitor the network under the agreed SLAs and adapt its capacity as services grow.

Result: a network kept current and monitored over time.

New builds and refits, to the same standard

We work on new builds and on ships already in service, planning refit work inside layover windows to keep the impact on commercial operations to a minimum.



Network architecture

Backbone, segmentation, redundancy and security, sized to each ship's requirements.



Wi-Fi coverage

Access point placement designed and verified zone by zone.



Cabling and equipment

Structured cabling, fibre, cabinets, switches, access points and routers.



Testing and documentation

Coverage and performance verification, with as-built documentation handed to the company.

We design the network together with the services it has to carry



One partner for network and services

We design the infrastructure already knowing the requirements of Wi-Fi, the portal, IoT, TV and the other onboard services.



Operational experience at sea

We plan the work around routes and layover windows, allowing for the real constraints of ship operations.



A baseline the company owns

We hand over measurements, topology and as-built documentation, usable as the reference for the whole fleet.



Continuity after handover

The same team monitors and maintains the network under the agreed SLAs, with no hand-off of responsibility.

— NEXT STEP

One ship to define the fleet standard

We survey coverage and existing infrastructure on a first ship. We deliver a documented baseline, the technical design, a works plan that fits the layover windows and a cost estimate. Once approved, the model becomes the reference for the other ships in the fleet.

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