

How is resilience designed beneath the ocean?

Digital availability does not depend on software or contracted speed alone.

It begins much earlier, in the physical infrastructure that carries the network. That is where a single point of failure can turn into a total outage. Preventing and eliminating these vulnerabilities is the first step towards real resilience.

99% 

availability means your network can be out of service for more than 3 days a year.

Fragile infrastructure

An architecture built on a single subsea cable can look sufficient. It connects two regions and appears to do its job normally. But that structural simplicity implies absolute dependence on one physical route.

1 landing point + **0** alternatives in the event of a cut = **1** single point of failure

In other words, if that infrastructure is interrupted by a natural disaster, a technical fault or an accident, there is no alternative path to reroute traffic — which can result in total disconnection.

The false sense of redundancy

Many organisations believe that contracting more than one provider guarantees continuity. But that confidence is a mirage.



2 different operators can share network segments, use the same subsea cable or converge at the same landing point.

Plan B = Plan A in disguise

Redundancy only works when the paths are genuinely independent. Without clear information about the real routes, it is impossible to eliminate single points of failure.

Resilient infrastructure

Raising availability requires building in real diversity of routes and interconnection points. That means:



Multiple subsea paths



The ability to reroute traffic automatically



Independent landing points



Architecture prepared to absorb interruptions

When the network is designed with all of this in mind, outages lasting days can be reduced significantly.

99.99% **availability** reduces annual downtime to approximately 52 minutes.

There is no such thing as an infallible network

Every infrastructure, however robust, is exposed to physical failures, human error and unforeseen events. In the subsea environment, resilience starts by eliminating single points of failure and securing real route diversity.

Liberty Networks operates 50,000 kilometres of subsea cable and 17,000 kilometres of terrestrial fibre, with five routes between Latin America and North America.

That diversity is the foundation that guarantees continuity for our customers, even in the face of the unexpected.

Contact us and discover how to keep your organisation connected to the future.

Together, we enable the future



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