Maritime connectivity challenges and how Venn can help solve them

Connectivity on board seafaring vessels is crucial for professional applications (navigation, operating & communication systems, etc), crew welfare, and entertainment for guests (IP Radio/TV, news, social media, etc). There are a number of **different challenges involved with getting reliable internet connectivity at sea**:

- Satellite connectivity is **expensive**
- Depending on where the vessel is located, **the availability of a network and connectivity speed vary significantly**
- **Acquiring enough bandwidth to reliably support all the required applications is difficult,** and existing solutions involving satellites struggle to meet the ever-increasing bandwidth needs
- **Qualified and experienced IT professionals onboard are scarce**
- Remote access to the ship's internal network is difficult to maintain

Venn Telecom is a managed service provider that offers **connectivity as a service**, with quality, uptime and performance monitoring. Venn can help marine vessels achieve **unbreakable connectivity with high bandwidth** by combining 4G/5G, WiFi and satellite connections.

The benefits of choosing Venn Telecom

01.

Simplicity

Venn offers an **all-in-one package** that includes hardware (such as routers and antennas), installation guidance and attractive mobile data subscriptions.

02.

Reliable and fast internet

Peplink routers can bond **multiple connections from different mobile providers** into a stable high-bandwidth connection, offering an alternative to satellite solutions.

03.

Lower costs

To keep costs low, Venn **can prioritise data usage**, by choosing port WiFi or local LTE connections as opposed to expensive satellite connections.

04.

Seamless connectivity

Venn can make your vessels part of your company networks, providing seamless connectivity and ensuring constant access from the ship to your company data.

Our global solution

Venn Telecom provides reliable internet connectivity across the world, and our maritime solution is designed to provide internet access either via 4G/5G nearshore or via satellite at sea. The service is remotely monitored to guarantee constant uptime for operations, and bandwidth can be customised for the smallest to the largest vessel.
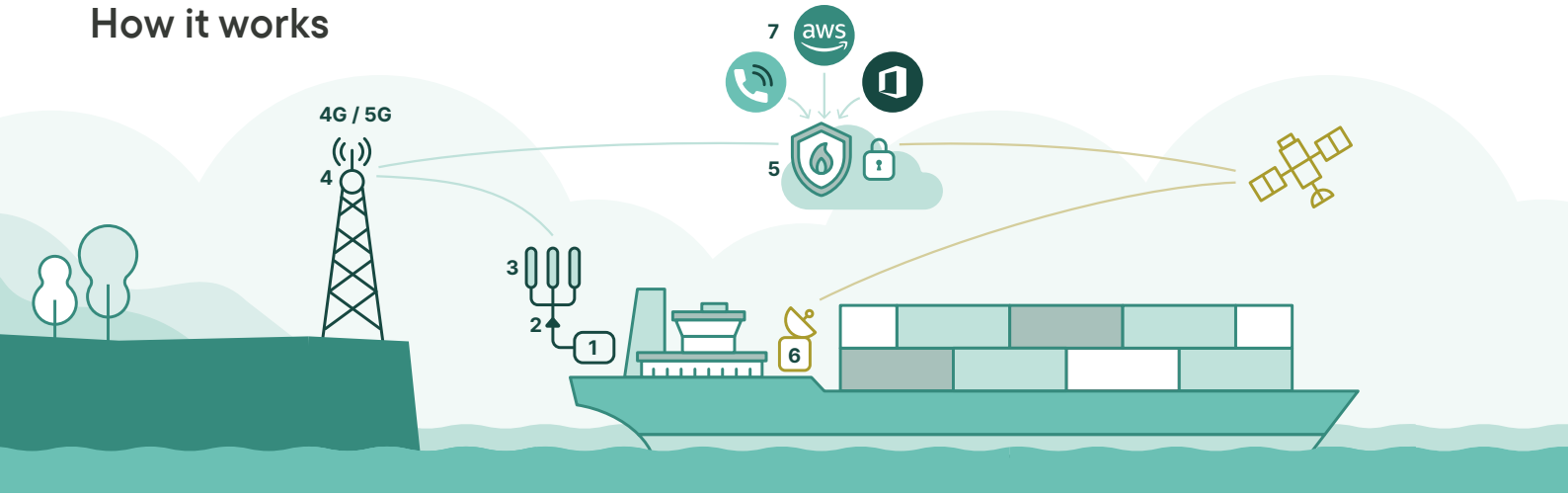
And because flexibility and personalised service is one of our core beliefs, we offer different combinations of managed services depending on your needs, as well as flexible contracts for complete budgeting control.

Our services

We'll provide you with technical experts who will work closely with you to understand your network situation before designing a step-by-step solution catered to meet your precise needs. We typically break our projects into five distinct phases.

Analysis of the existing network → Improvement proposal → Proof of concept → Deployment → Support

How it works

4G / 5G

7 AWS

5

4

3

2

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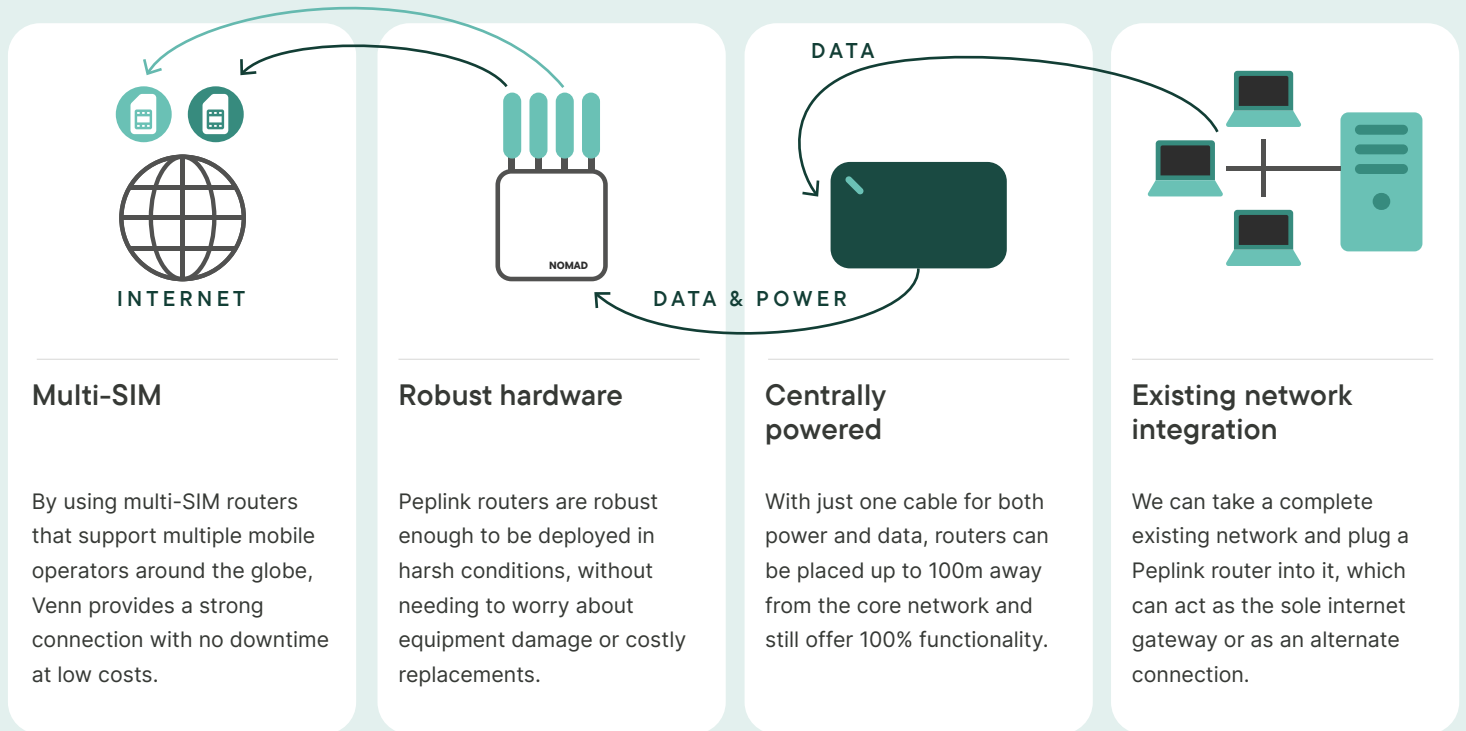
6

1. Next generation wireless SD-WAN router
2. Cellular amplifier
3. High gain maritime antenna
4. Multiple-network SIM cards
5. Static IP
6. Easy integration with satellites
7. Incoming services (telephony, 3rd party users, AWS, Office 365, ...)

The hardware setup

DATA

DATA & POWER

INTERNET

NOMAD

Multi-SIM

By using multi-SIM routers that support multiple mobile operators around the globe, Venn provides a strong connection with no downtime at low costs.

Robust hardware

Peplink routers are robust enough to be deployed in harsh conditions, without needing to worry about equipment damage or costly replacements.

Centrally powered

With just one cable for both power and data, routers can be placed up to 100m away from the core network and still offer 100% functionality.

Existing network integration

We can take a complete existing network and plug a Peplink router into it, which can act as the sole internet gateway or as an alternate connection.