CASE STUDY

21Packets

Energy and OT Connectivity

Secure, resilient connectivity for OT operations in remote and contested regions.

Customer

21Packets, a global network service provider with more than 400 points of presence, serving oil and gas and other OT-heavy industries.

Challenge

Protect and sustain OT connectivity in locations with few links, from harsh geography to conflict zones, across regional providers.

Deployment

Dispersive integrated at the layer 2 transport network for internet backhaul, with multipath links up to 10G.

CUSTOMER PROFILE

OT Connectivity Where Options Are Few

21Packets is a global network service provider operating more than 400 points of presence. It connects customers in oil and gas and other industries that run large OT deployments in places where connectivity options are limited: remote fields, harsh geography, and regions affected by conflict. Its customers depend on that connectivity to keep operations running.

THE CHALLENGE

Operational Traffic on Networks the Operator Does Not Control

OT devices in these locations send operational data across regional providers and backhaul that neither 21Packets' customers nor 21Packets fully control. A single path is a single point of failure, and a visible stream is a target. 21Packets set clear requirements for a solution:

- Conceal OT traffic from the networks it crosses.
- Carry traffic across multiple links at once rather than depending on one path.
- Operate at more than one network layer, including the layer 2 transport network.
- Support high-bandwidth links, up to 10G, for large OT devices.
- Stand up and take down connectivity quickly as operations change.
- Adapt to regional network providers and nation-specific requirements.

REMOTE OT THAT STAYS CONNECTED AND STAYS OFF THE MAP.

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THE SOLUTION

Protected Multipath Backhaul for OT

21Packets deployed Dispersive® Stealth Networking as an overlay on its existing transport. OT traffic is split into independently encrypted streams and carried across multiple links at once, so there is no fixed route to find, intercept, or cut. Existing providers and infrastructure stay in place.

Layer 2 transport	Dispersive is integrated at the layer 2 transport network to provide internet backhaul, protecting OT traffic as it leaves remote sites.
Multipath across providers	Traffic runs across every available link, including local ISPs and satellite connections. If one link degrades or fails, the others carry the load.
High-bandwidth OT	Links up to 10G support large OT devices and growing data volumes.
Rapid spin-up and spin-down	Connectivity is deployed and retired quickly as field operations start, move, or end.
Regional adaptation	The same approach works across regional providers and nation-specific requirements, so 21Packets runs one model across regions.

400+	**10G**	**Layer 2**
points of presence worldwide	links for large OT devices	integration for internet backhaul

WHAT THE DEPLOYMENT DELIVERS

Concealment, Continuity, and Scale for Remote OT

- **Concealed OT traffic.** Operational data crosses third-party and regional networks as fragmented, independently encrypted streams, with no single stream to observe or intercept.
- **Continuity without a single point of failure.** Multiple links carry traffic at once, so a lost link does not stop operations at a remote site.
- **Scale for industrial workloads.** High-bandwidth links up to 10G support OT-heavy environments.
- **Operational agility.** Fast deployment and spin-down match connectivity to the pace of field operations.
- **Protection delivered as a service.** 21Packets delivers Dispersive as part of its connectivity service, so end customers get protected, resilient OT connectivity without running it themselves.

Start with one remote site. Dispersive deploys on the transport you already run, from layer 2 backhaul to local ISPs and satellite, with nothing installed on controllers or field devices. See concealment and continuity on your own operational network before you decide. Contact Dispersive at dispersive.io/company/contact-us.

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