



Case Study

Bonded Internet

SurfSonic Bonded Internet in the Real World

Netkon Mission ran a scientific survey mission off Bermuda in summer 2016. Based on US Flag M/V Baseline Explorer.

They approached us with 2 requirements:

- 1) General Internet Access for Crew & Science Updates
- 2) Live Outside Broadcast Feeds & a Live Radio Show

With limited or no 4G coverage, 3G services from Digicell BDA were provided for the duration of the month long mission.

8x Surf4G European LTE Routers with 3G Sim Card
SurfSonic Bonder plus 2x Expanders
4x ProTac Wideband Antennas
Custom Cased Solution

Unusually with application demand for upload & latency performance rather than the common download bandwidth requirement, yet with less than 2Mbps available on each 3G service, the achieved upload performance is impressive.

The John Fugelsang & the team from SiriusXM joined Baseline Explorer, the plan being for John to descend to 300m Depth in one of the Submersibles and present his hour long radio show live from the Sub with celebrity callers back in the US. If successful the broadcast would be a World Record.

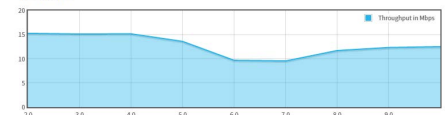
With a suitable dive site selected and the Sub to Ship Radio working, SiriusXM engineers on board setup their 2 way stream to the New York studio and the show was ready to air.

After a few tense moments while the engineers tackled the delay between ship and sub, the talk show was a great success raising awareness of Ocean Health.



Throughput: 12.34 Mbps, 1118 packets/sec
Latency: avg. 82.2 ms, st. dev. 6.9 ms (n=19)
Send queue: not recorded
Packet loss: 0.04%

Throughput



Latency



Contact

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