



Veripos Case Study

- UK VPLS based WAN to Data Centres
- International Circuits to the US and Far East
- Virtualised Mitel IP Solution



As one of the early innovators in the field of precise positioning, Veripos aims to be the market leader in precise navigation and positioning solutions, through the innovative application of technology, continuous product development and operational excellence.

They operate, maintain and control their own network of over 80 GNSS reference stations to ensure maximum operational reliability. Fully redundant, diverse Network Control Centres supply data for two or more independent satellite beams in each region of the world. They can achieve accuracy levels – down to sub 10cm for vessels working in some of the harshest environments on earth.

The Challenge

Moving to new purpose built premises in Aberdeen Veripos promote a highly specialised software solution that delivers real-time positioning information to ships across the world with an accuracy of within 10cms.

In order to achieve this level of accuracy they gather large amounts of information from multiple positioning Satellites and by applying their own algorithms they can achieve the levels of detail they require.

Given the risk factors in the Oil and Gas industry, any failure to deliver the correct positioning information to a ship alongside an Oil Rig could be extremely dangerous.

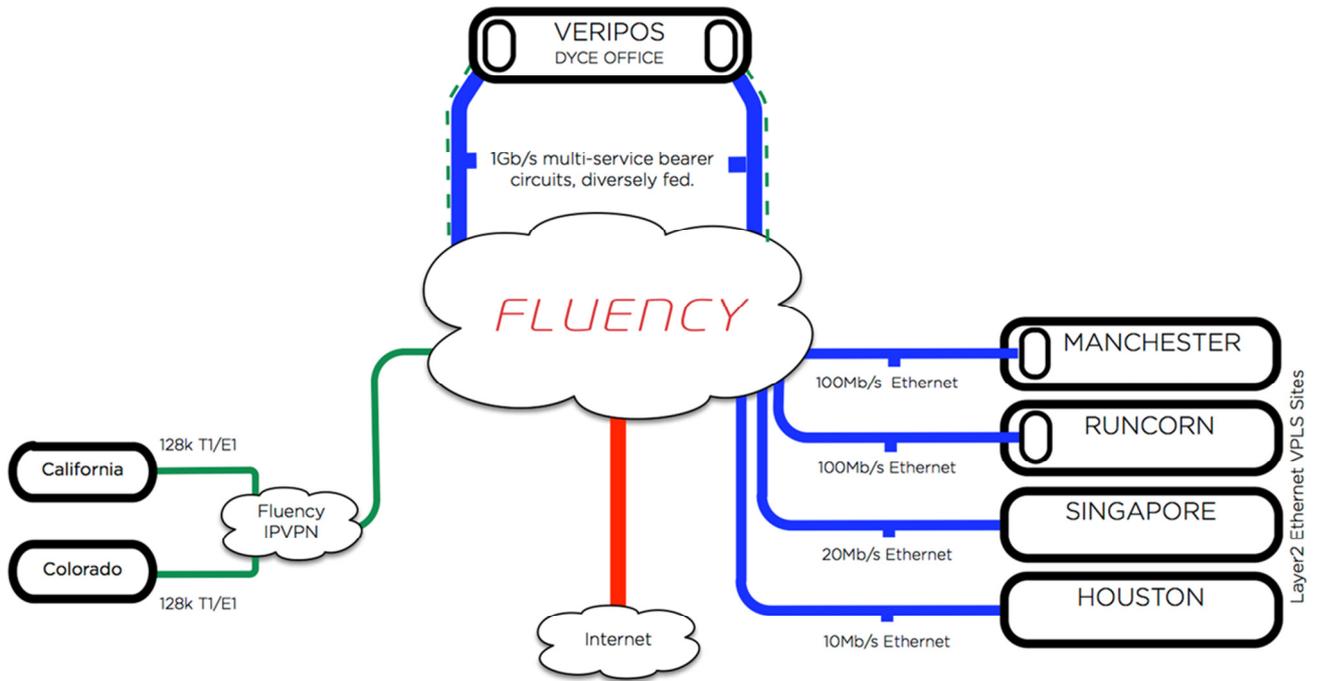
As such, they require constant 24/7, 365 day uptime and previously had multiple Carriers and technologies linking their locations across the Globe using Fibre, Copper and ADSL utilising multiple traditional National Providers.

Their assumption was to replicate this at the new site but once we were invited to support the delivery of communications to the new location, we were able to offer a unique proposition that delivered and exceeds their uptime requirements

This coupled to the benefit of having only one company to liaise with for all services and support.

I'd like to take this opportunity to personally thank James, Nick and Charlie for all their assistance, a few bumps along the road but all in all the end result is fantastic! I know there are further network improvements / additions to come and I look forward to our future together. *Thanks everyone!*

David Gilmore, Project Engineer, Veripos



Proposed Solution

The design consists of providing two Gigabit access circuits from two different Exchanges completely diversely routed from different building entry points and ducts.

The Exchanges are linked together and each Exchange is subsequently routed by different Carriers and routes across Scotland on our Network thereby delivering complete triangulation resiliency.

Over each of these bearers we are delivering an initial 200MB of bandwidth and once onto the Commsworld Fluency Cloud we delivered all of the varying multiple-layer services they require, consisting of:

- Two of 100MB circuits into two geographically located Datacentres,
- International circuits to the US and the Far East with bandwidths ranging from 128kb to 20MB.
- 100MB of Internet access.

This design has subsequently allowed us to easily deploy a 120 user virtualised Mitel IP solution inclusive of 20 SIP channels delivered from the Commsworld Fluency platform utilising 200 DDI numbers from our Ofcom allocation. This is further enhanced by a virtualised failover platform based out of one of the Data Centres. We also supplied a fully resilient HP stack for the LAN consisting of over 1,000 ports with more to come.

We are about to bring a further five International Circuits over to the Commsworld Fluency Network.

Implementation

From the beginning we have applied our Project Management skills and experience to first of all deal with New Sites of Openreach. Most of the Telecommunications business will understand that this can be very challenging sometimes and we have had to overcome many obstacles. These all revolve around the key fact that there was a new construction taking place and it is true that the construction industry can also be challenging in delivering to time.

We developed High level Design documents and on top of daily contact with the client, we held diarised group conferences. Aside from our Project Managers we included the skills of our Head of Customer Service. This was a very complex deployment involving multiple solutions and providers.

In addition to Commsworld Fluency involvement we had Openreach, Level3, Vodafone, Mitel, HP and others.

The total sets of solutions have just gone live and the client staff have moved into the new building.

The client IT team has been coached and trained on their aspects of the Data suites, and end users are utilizing the full functionality of the Mitel platform.