

## THE CASE

A domestic cruise liner was in search for a connectivity solution aboard the cruise which needed secure communication at both the terminal docks which were located at Mumbai and Goa, along with the Head Office located at Belgaum. One of the main requirements of this case was that the cruise would be sailing a few kilometers away from the land and hence would face problems with stable connectivity. Initially there were few limited options that would provide connectivity at that distance from land but would fail at further distances. Hence, one of the most crucial requirements of this case would be to provide stable connectivity. One of the requirements of this case also was the inter connectivity between the head office, the two terminal docks at Mumbai & Goa, and the cruise.

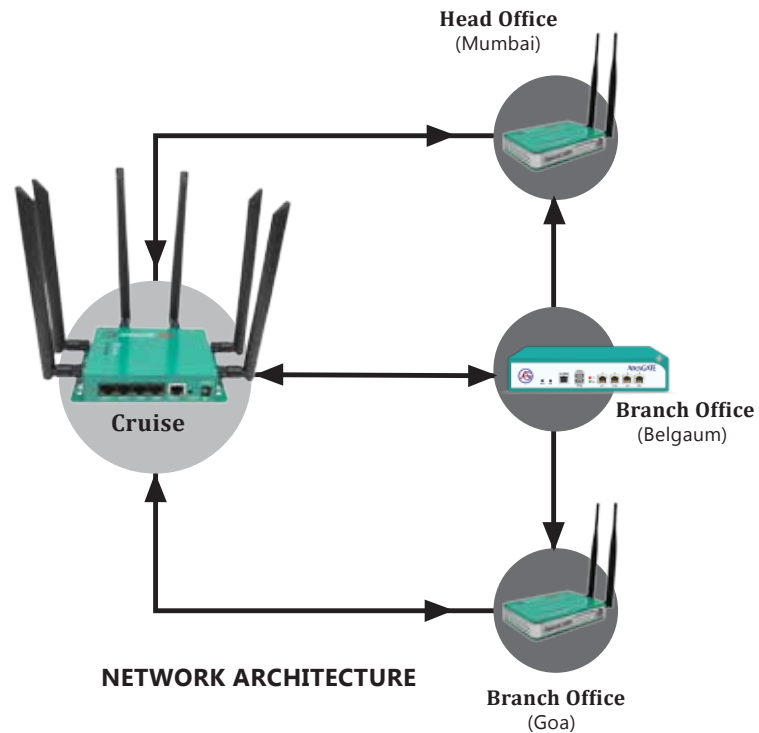
## SOLUTION

The solution for this case required a secure connectivity appliance that provided almost 100% uptime for a good connection between the cruise, the two terminals Mumbai and Goa, and the Belgaum office.

This was a simple solution with the right tools to do their respective jobs.

The Head office of the cruise was located at Belgaum and had their main server installed at this location. There was an AnexGATE AWP installed at this base which provided a secure connection for all terminal locations to access files with the main server. The other offices at Goa and MUMbai were considered as branch offices in terms of connectivity. Both these offices were deployed with AnexGATE ACE Plus appliances as these locations had good connectivity options. There was also a secure VPN tunnel to access files from the Head office. We provided features like Bandwidth Aggregation and Multilink failover at both locations to ensure almost 100% uptime.

One of the major aspects of the solution was the deployment of ACE Advanced Pro on the cruise which provides support for up to 3 connections over 4G sim card and USB tethering. This helped us to move over about three connections and have a good uptime for all connections at the cruise. Since, the cruise would sail at sea, no connection would be able to provide connectivity throughout. Using upto 3 connections simultaneously over 4G sim cards improved our odds of getting good connection and provide a secure connectivity option. With inbuilt features like Bandwidth Aggregation and Multilink failover, the cruise has some network availability during sailing.



In addition to this, all the locations were interconnected over a secure VPN Channel so that, the three locations could communicate seamlessly with each other. Ale, the Goa location and the cruise could communicate with the main server located at Mumbai for any information.

### SUMMARY

- With features like Bandwidth Aggregation, Load Balancing and Multilink failover, the cruise could achieve a very high uptime with 3 simultaneous connections online in tandem.
- Belgaum, Mumbai, Goa and the cruise were interconnected and communicated with each other over a secure VPN Tunnel.



**Dual SIM**



**Auto Failover**



**Bandwidth Aggregation**



**Secure VPN**

This appliance can bond upto 5 connections



**AnexGate Network Security Solution Division,**  
Smile Security and Surveillance Pvt. Ltd.(SSSPL)  
#21/2, Bhattarahalli, Old Madras Road,14 KM,  
K.R. Puram, Bangalore-560 049. (INDIA)

**Phone** : +91- 80 - 42120774, 981043 1143

**Mail** : info@anexgate.com

**Website** : www.anexgate.com