



To Whom It May Concern,

I am writing on behalf of Step Global in Australia to inform you that Bitstream is providing valuable support for our precision time network system, which has been integrated with a GNSS simulation system to offer location services within tunnels. More details about our collaboration can be found at: <https://stepglobal.com/a-gnss-simulation-system-for-real-time-tracking-within-tunnels/>

The project that Bitstream is a part of is for the Government transport authorities in Australia. This initiative was prompted by requests from emergency services organizations to mandate the inclusion of location services infrastructure in certain road tunnels. The specified location services must enable a standard GNSS receiver in the tunnel to report its position with a required accuracy, typically between 30 and 40 meters.

The necessity for this infrastructure arises from the imperative need of emergency services to receive constant updates on a vehicle's location within the tunnel during emergency events. Therefore, the location service must be capable of providing latitude, longitude, and altitude data back to the command centre.

For the tunnel project, Bitstream has supplied two types of PTP time servers: Quazar-700 and Quazar-200, along with a monitoring system named QuazarNet. We are pleased to acknowledge that Bitstream's Customer Support has been responsive, promptly delivering solutions to any reported problems.

We regard Quazar as a reliable time and frequency probe, as well as a trustworthy time reference. The unique data presentation layer of QuazarNet distinguishes it from other solutions available in the market. Based on our positive experience, we wholeheartedly recommend considering Bitstream as a supplier for any company evaluating similar options.

Sincerely,

David Lloyd  
Managing Director  
Step Global Pty Ltd