

## MINISTRY OF WORKS AND TRANSPORT

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To whom it may concern.

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Era was contracted by Namibia in 2009, through a main contractor, to supply and install a wide area multilateration system to cover almost the entire airspace of Namibia. Namibia is a large country with an area of 865 000 square kilometers.

The wide area multilateration solution installed in Namibia consists of a network of 36 ground stations that provide optimal surveillance coverage of the entire country. In addition, 25 interrogators are deployed country wide, since there are no other monopulse secondary surveillance radars to interrogate the aircraft.

Because of the fact that the sensors are in remote locations where aircraft do not often fly, there was a need to know that the system was fully operational in these areas. The solution was to install site monitors that would squit extended Mode S messages to system operators. Four remote reference transponders were also installed to provide system verification and integrity in certain locations. As a result, the entire system is self-sustaining and can test itself.

The wide area multilateration was site accepted in March 2011. The wide area multilateration system was flight trialed and results proved the accuracy performance being better than the required 100m. The system was declared safe for operational use after a safety case had been conducted by an European service provider.

An extension of the wide area miltilateration system has since been contracted. This extension will add 20 receivers and 14 interrogators to the current operational system. This will make the Namibian wide area multilateration system probably the largest operational system taking into account the size of the airspace covered.

The deployed wide area multilateration system is a distributed common view wide area multilateration system and therefore only IP data communications were required. Era's sensors are also built to IP-67 standards to handle all that the Namibian climate has to offer.

Era delivered a system that meets the expectations of the Namibian DCA and can recommend Era as a reliable supplier of wide area miltilateration systems.

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