

SAF

Australia

CABONNE SHIRE COUNCIL MICROWAVE WAN UPGRADE



MICROWAVE NETWORKS MADE EASY

SAF Australia is the national representative of the European point to point microwave radio manufacturer SAF Tehnika.

Local government, particularly regional councils, are the key customer group for SAF Australia. Our main office is located in Albury, NSW reflecting this regional focus.

We understand the challenges of supporting critical networks outside the main city centres, and we have vast experience in delivering high quality, reliable and cost-effective solutions.

Please contact us for further information, we will be happy to answer any questions you may have.

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CABONNE SHIRE,
NSW, AUSTRALIA

“SAF recently provided a 240Mbps link between two Cabonne offices via a repeater site on Mt Canobolas. SAF delivered their services as promised and were able to resolve logistical challenges without fuss. Cabonne Council is pleased with the services provided by SAF and would be happy to recommend them for this type of work.”

Nathan Stubberfield

IT Support Officer
Cabonne Shire Council

THE CUSTOMER

Cabonne Country, “Australia’s Food Basket” is a rich rural shire in central west NSW, covering the towns of Canowindra, Cargo, Cudal, Cumnock, Eugowra, Manildra, Molong and Yeoval. The area is home to the site of Australia’s first gold rush and is famous for ballooning, food and wine, agriculture and mining.

THE REQUIREMENT

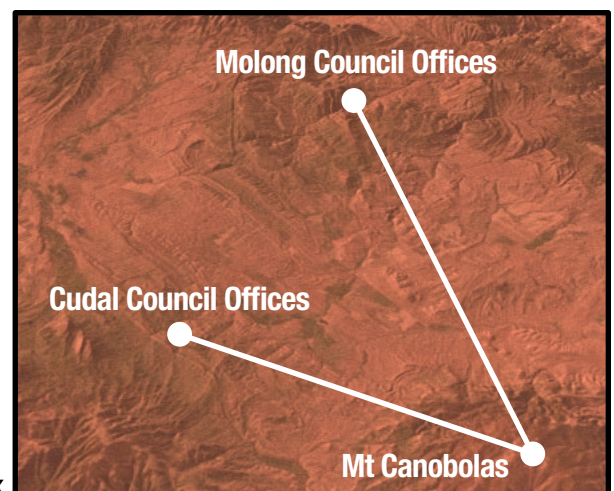
Cabonne Shire Council required an upgrade of their existing 2Mbps, high-latency fixed-line service between the Council offices in Molong and Cudal to a minimum of 100Mbps full-duplex data capacity.

The core objectives of improving the link speed were two-fold:

- to improve productivity and effectiveness by ensuring faster access to Council systems at Molong Office for Cudal office staff, and
- to improve overall data security by allowing each site to back up the other for Disaster Recovery purposes.

Due to the critical nature of the service, high reliability was imperative for the Council. SAF Australia was awarded the contract to design, install and maintain the network following a closed tender process.

 **Cabonne Shire Council
Microwave Radio Network**



AUSTRALIAN COUNCILS ALREADY USING SAF EQUIPMENT INCLUDE:

Albury City Council, NSW
Ballina Shire Council, NSW
Barcaldine Regional Council, QLD
Bega Valley Shire Council, NSW
Cabonne Shire Council, NSW
Central Highlands Regional Council, QLD
Cessnock City Council, NSW
City of Wodonga, VIC
Clarence Valley Council, NSW
Fraser Coast Regional Council, QLD
Glenorchy City Council, TAS
Glenelg Shire Council, VIC
Hawkesbury City Council, NSW
Kyogle Council, NSW
Leichhardt Council, NSW
Lismore City Council, NSW
Litchfield Council, NT
Mid Murray Council, SA
Mindarie Regional Council, WA
Moree Plains Shire Council, NSW
Port Stephens Council, NSW
Richmond Valley Council, NSW
Shire of Harvey, WA
Southern Grampians Shire, VIC
Tamworth Regional Council, NSW
Tumut Shire Council, NSW
Tweed Shire Council, NSW
Walcha Council, NSW
Warrnambool City Council, VIC
Wollongong City Council, NSW
Wujal Wujal Aboriginal Council, QLD



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THE SOLUTION

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Cabonne Shire Council's offices in Molong and Cudal are 25 kilometres apart and have no direct Line of Sight (LOS) between them. To overcome this, SAF Australia's network design proposed using Mt Canobolas as a repeater site. At 1395m above sea level, Mount Canobolas is the highest geographical point in the area, offering existing tower infrastructure as well as clear LOS to both Council offices.

SAF Australia provided a full-turnkey solution to Cabonne Shire Council, including network design, ACMA licensing, repeater site access, equipment supply, installation and commissioning.

SAF CFIP Lumina 11 GHz Full Outdoor microwave radios with 600mm high performance antennas were installed at all sites providing up to 225Mbps full-duplex data speeds with very high availability figures (99.999% or better at 100Mbps).

To improve overall reliability of the network, an Uninterruptable Power Supply (UPS) was installed at Mt Canobolas with IP access to allow the status of the UPS to be monitored over the network. At Cudal a 3metre modular guyed lattice mast was chosen to allow the height of this structure to be easily increased in the event future vegetation growth makes this desirable.

SAF Australia also provides Cabonne Shire Council with ongoing maintenance support, which includes regular maintenance inspections and servicing as well as dedicated equipment spares.

THE OUTCOME

As a result of the upgrade project, data speed of Cabonne Shire Council's WAN has increased from just 2Mbps to 200+ Mbps full-duplex, whilst decreasing end-to-end network latency from 100ms to under 1ms. The result has enabled Council staff to work far more effectively and efficiently than they were able to do so in the past.



Cudal Office Site



Mt Canobolas Repeater Site