



Microwave Radio Solutions
& Local Support
You Can Depend On

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

Based in Salamander Bay, NSW and Adelaide, SA, we supply SAF microwave radios as well as a full package of services to customers across all states and territories of Australia. Our mission is to provide reliable microwave radio solutions that help our customers improve their infrastructure and cut their operating costs at the same time. We tailor our solutions to best suit each of our customer's needs and circumstances and work with multiple partners to ensure local support is available to all our customers.



Tweed Heads, Australia

Private Wireless WAN for Twin Towns Clubs & Resorts

Partner: Wires Broadband - World Without Wires Pty Ltd
Customer: Twin Towns Clubs & Resorts
Location: Tweed Heads, Australia
Solution: SAF CFIP-108 and CFIP Lumina Microwave Radio Systems

"This system has allowed Twin Towns Services Club to dramatically reduce their Telecommunications expenditure by consolidating resources across all their sites, providing them a truly unified network for Voice, Video and Data."

Dainen Keogh
Director

Wires Broadband - World Without Wires Pty Ltd

THE CUSTOMER

Twin Towns sets new standards in entertainment, accommodation, dining and events with world-class facilities to cater for every need. Twin Towns is the largest Services Club in Australia, occupying almost five square kilometres of property spread across its four sites - the main club, Twin Towns Services Club, Club Banora at Banora Point, Outrigger Twin Towns Resort (which adjoins Twin Towns by an overhead walkway) and Twin Towns Juniors.

THE PARTNER

Wires Broadband- World Without Wires Pty Ltd was established in 2004 on the North Coast of NSW, primarily to service demand for broadband access in rural and remote communities. From humble beginnings they now have coverage throughout the Northern Rivers, Southern Queensland and the Sunshine Coast.

The network construction has been fully in-house giving World Without Wires a vast amount of experience in many interesting and unique deployment situations, from small solar powered relay sites, to DSLAM, fibre and licensed microwave radio networks. This experience has led to the development of Wires Networks, a subsidiary company specializing in network deployments for the Telecommunications, Corporate and Mining industries.

The company works closely with IT service providers to ensure robust, high performance and reliable network solutions.



Tweed Heads, Australia

CHALLENGE

Customer previously had a 2Mbps managed service which was carrying both voice and data. The bandwidth was saturated causing voice quality issues. Two main options were to either upgrade to 10Mbps or 100Mbps managed service or to build a private wireless network.

SOLUTION

Customer chose the latter option as it was more cost-effective. Payback period of capital investment compared to using 100Mbps managed service was 6 months, and monthly operational costs are now lower than with the previous 2Mbps service. A wireless network utilising SAF microwave radios was built to connect all four Twin Towns Clubs & Resorts public sites as well as the Admin building. Twin Towns Juniors was connected via a repeater site in Springbrook due to lack of direct Line of Sight from the other sites. Twin Towns SAF Microwave radio network was completed in February 2012 and is providing 75Mbps to 366Mbps full-duplex data speeds.

ADDITIONAL BENEFITS

Apart from dramatically increased bandwidth, other key benefits of the upgrade for the club include:

- Unified data network
- Central maintenance and management of computer terminals (one server instead of one at each site)
- Centralised security - IP security cameras can be monitored in real time by security at one club
- Organisation-wide point of sale processing - all tills update data in real-time
- Unified IP telephony - roll out of one phone system throughout the organisation, increasing efficiency and reducing costs of maintaining multiple systems and lines at each site
- IP TV - able to roll out streaming video services from one source around all sites, negates the need for multiple AV rooms and more efficiently distribute media and advertising content.



World Without Wires

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Installation of SAF Microwave Radios for Twin Towns Clubs & Resorts by Wires Networks (subsidiary of Wires Broadband- World Without Wires)

DETAILS OF THE NETWORK

Equipment	SAF CFIP-108 and CFIP Lumina, 5 Links
Link distance	from 100 meters up to 26 kilometers
Frequency bands	Licensed 7.5GHz, 18GHz and 38GHz, and licence-free 24GHz
Capacity	from 75Mbps to 366Mbps Full Duplex
Services	Ethernet
Antennas	300mm and 600mm

Twin Towns Clubs & Resorts Wireless Microwave WAN Topology

