

World-class wireless coverage for any indoor location

Private and public Wi-Fi solutions to connect guests, tenants, residents and spectators.

Bring coverage to every corner of your building with the right mix of indoor connectivity solutions

Wi-Fi is a crucial communications platform for providing people with connectivity when, where and how they need it. BAI Communications provides end-to-end design, delivery and management of highly configurable private Wi-Fi networks and public hotspots that are tailored to each unique wireless environment — from hospitals, hotels and office towers to airports, stadiums and shopping centres.

But Wi-Fi alone might not be enough to meet the connectivity needs of every user. That's why we can also seamlessly combine Wi-Fi with indoor 4G/5G mobile networks. With BAI as your partner, these technologies can work together to deliver uninterrupted connectivity for a more reliable, consistent indoor network experience across all your services and applications.

Wireless connectivity for addressing Australia's big challenges

Business transformation

High-density, high-capacity wireless connectivity is needed to deliver seamless online access for end users, and to adopt new digital technologies that enhance operations and create new sources of revenue.

Smart city enablement

Cities and communities require communications solutions that keep citizens connected and safe, enable the efficient movement of people and goods, and help build the economies of the future.

Digital divide

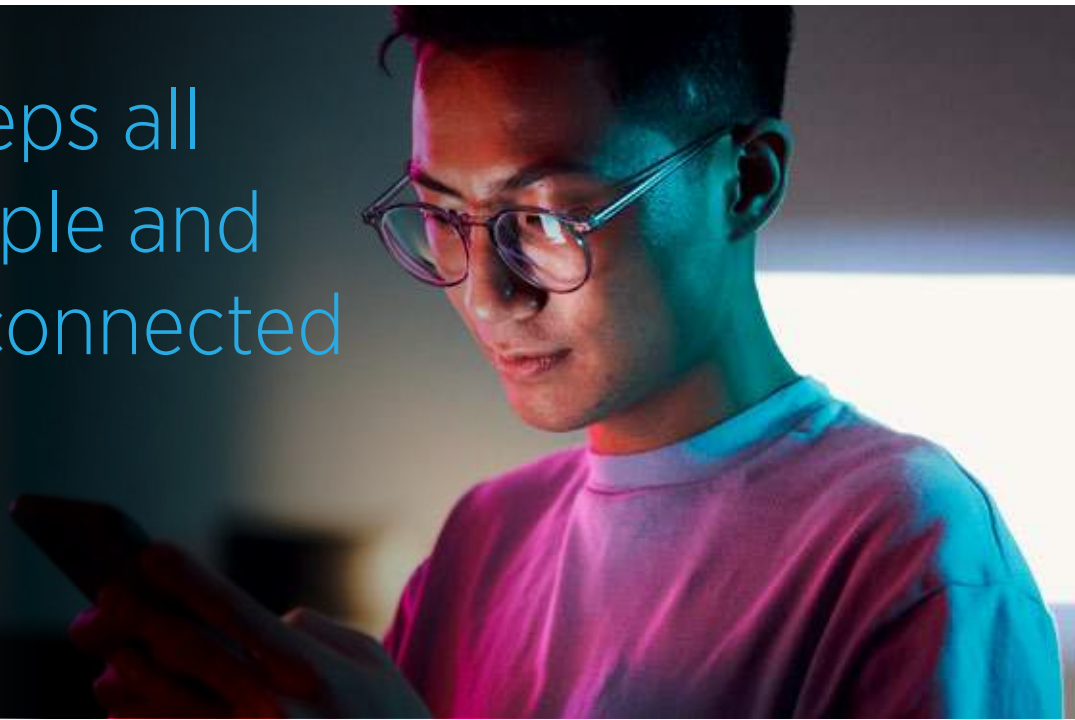
Online access is as vital as heat and running water. But many people still lack access to affordable, high-speed public mobile connectivity, leaving them digitally excluded from society and the economy.



bai communications



Wi-Fi keeps all your people and devices connected



BAI's Wi-Fi solution

Wi-Fi is a simple but flexible technology for providing wireless access to internet and data services. Typically deployed indoors, it enables wireless network connectivity for user devices such as handsets, tablets and laptops, as well as Internet of Things (IoT) and machine-to-machine (M2M) devices like sensors, security systems, smart meters and other appliances using readily available unlicensed spectrum.

Wi-Fi deployments consist of network infrastructure and equipment such as cables, switches and access points that are installed on-site, typically along with cloud-based wireless controllers.

BAI supports a range of leading Wi-Fi vendors and platforms, meaning we can custom-design a solution that best meets your vendor preferences and technical requirements. That includes solutions with the latest Wi-Fi6E technology, which uses extended spectrum in the 6GHz band for high-capacity, high-throughput use cases.

From setting up access points to post-deployment operations and maintenance, we can handle every aspect of your Wi-Fi network to keep it running at its best. Customisable dashboards and advanced analytics help you track key performance metrics so you can tailor your wireless connectivity to your needs.

We're also experts at integrating Wi-Fi with other wireless technologies like distributed antenna systems (DAS) and private mobile networks. This enables the most flexible and comprehensive indoor mobile coverage, especially in complex facilities and mixed-use properties that require layered network solutions to support a wide range of applications and connectivity demands.

Features



Public access for general users in public areas



Private access for specific users or devices



Custom-built captive portal to set up user access



Configurable network policies



Remote network management



Network performance monitoring and reporting

Benefits

Provide easy access to the internet and digital services for tenants, visitors and patrons

Deliver high-speed connectivity with restricted access to enterprise applications and systems

Customise the sign-up process to better understand user preferences; generate new revenue by showing sponsored advertising

Establish service tiers for different kinds of users; manage network capacity to provide a more consistent wireless experience

Detect and resolve issues quickly to improve network availability

Optimise the network to meet user behaviours and usage, and to plan future upgrades

Wi-Fi solutions for any industry

Every wireless environment is different. We take the time to understand your connectivity needs to deliver the best public or private Wi-Fi solution for your specific industry.



Retail

Improve customer engagement by providing easy access to branded mobile apps and loyalty programs. Enable self-serve ordering and automated checkout for a faster shopping experience. Track customer footfall with network analytics to improve product placement and store design, and deliver personalised shopping recommendations.



Commercial real estate

Provide seamless access to project files, enterprise applications, and video conferencing and messaging platforms from anywhere in your building. Track and manage hot desk and facilities occupancy to improve staff experience and productivity.



Healthcare

Enhance patient well-being with reliable access to video and media applications. Set up telehealth and video consultation zones that increase patient flow. Empower medical staff to make fast, accurate decisions by making critical information readily available on mobile devices.



Stadiums and venues

Boost the fan experience by enabling access to unique experiences like AR/VR interactions, live replays and online betting. Provide the capacity required for tens of thousands of fans to share their experiences on social media. Sell more food and merchandise through in-seat ordering. Enable the use of digital ticketing and wayfinding systems.



Transport hubs

Keep passengers connected with internet access at airports and stations. Enable the use of digital ticketing and check-in systems. Simplify journey planning and bookings using online apps and webforms. Deliver real-time schedule updates to passengers' phones. Improve wayfinding to shops and boarding gates inside terminals.



Residential and hospitality

Attract high-quality tenants and guests by providing ubiquitous access to internet and data services. Create new revenue streams by offering premium access to faster speeds or larger data caps.

Your partner for indoor mobile connectivity

Over-the-top apps for voice, video and messaging are on the rise, but traditional phone service is still the way most people make and receive calls.

While Wi-Fi calling can be a suitable option to deliver the functionality of traditional voice calls in homes and small offices without mobile coverage, in large indoor areas with many users, mobile networks are required to reliably serve high volumes of simultaneous voice calls.

Indoor mobile coverage often requires a DAS or repeater solution. Using a mix of passive and active network elements installed throughout the indoor area, a DAS or repeater provides the signal strength needed to deliver connectivity in buildings or underground areas that outdoor mobile base stations often can't reach.

When deployed together, Wi-Fi plus DAS-enabled indoor mobile coverage ensures users have a seamless network experience wherever they go, with more capacity to connect everyone during peak usage times.

BAI has the experience, capacity and resources to design, deploy, operate and maintain an integrated solution for both indoor mobile and Wi-Fi connectivity:

Design

We apply smart planning and design practices that take into account existing mobile coverage, traffic load and performance requirements to develop a tailored Wi-Fi solution that works seamlessly alongside mobile networks for a cohesive user experience.

Deploy

By designing and installing the DAS and Wi-Fi system at the same time — and by leveraging shared infrastructure such as fibre optic cabling as a common backbone network — we make the deployment process more efficient to greatly reduce both time and cost.

Operate and maintain

A converged network management platform, backed by a network operations centre that is staffed by highly trained and qualified personnel, provides 24/7 real-time monitoring and support for your DAS and Wi-Fi systems to improve overall network reliability and the user experience.

Contact us

Find out how BAI's Wi-Fi and DAS solutions can connect everything and anyone in your world:
baicommunications.com



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