

# Better wireless coverage for your building—connectivity that goes farther

Indoor wireless coverage for better staff, tenant and guest experiences

## Bring connectivity to the heart of your building

When people enter your building, they expect to be able to pick up their phones and get instant, seamless access to their email, social media, voice calling and other connected services. But the reality can look quite different. They may be confronted with low or no signal as they move deeper into the building, or in basements and parking garages, so their calls get dropped and they can't complete even low-bandwidth activities like checking their email.

Most of the time, it's not a network capacity issue. It's that mobile signals struggle to penetrate the materials used to construct durable, well-insulated, energy-efficient buildings. That's where BAI Communication's in-building coverage solutions come in. With our distributed antenna systems (DAS) and mobile booster solutions, we can help make sure users get a strong signal all the way into the depths of even the densest building.

## In-building coverage for addressing modern challenges

### Technology continues to evolve

High-speed, high-capacity connectivity is required to handle the growing number of mobile devices, remote networks and Internet of Things applications used by individuals and businesses.

### More is expected from building management

Tenants expect property owners to provide the connectivity they need, with enough flexibility that they can expand or reconfigure their space, switch carriers and make other changes as required — without disrupting operations.

### Modern buildings block signal

Today's buildings are designed to keep energy inside so they can be as efficient as possible, but the construction techniques and materials that achieve that also block signals from outdoor mobile network macro sites. Indoor coverage solutions are



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# In-building coverage made easy

Transforming indoor spaces with unmatched coverage

## BAI's in-building coverage solutions

BAI's in-building coverage solutions are a simple, affordable way to bring mobile service into a building, delivering a better experience for occupants and visitors.

Our in-building coverage solutions amplify and distribute signals from public mobile networks, enabling them to penetrate deep into buildings.

### We offer two types of in-building solutions: DAS and mobile boosters.

Our DAS solutions are custom-designed for your building, using discreet hardware to deliver connectivity wherever you need it. Our designs comply with Mobile Carriers Forum (MCF) standards, ensuring all mobile network operators can connect to them using Australian mobile spectrum bands, so everyone in your building gets the same high-quality service.

We're also certified to offer mobile boosters from Nextivity, which are simpler and faster to install than traditional DAS, with less upfront costs and no need for MCF approval. Boosters are a highly flexible solution that can be easily scaled up or down or redeployed as needs change.

Thanks to our deep expertise in radio frequency engineering, we can design a solution for your building that will meet not only the needs of your tenants and visitors, but also those of the mobile network operators.

And our support doesn't end with deployment. We can provide operations and maintenance services, as well as remote monitoring capabilities to ensure your solution continues to perform at its best.

| Features  | Benefits  |
|---|---|
|  <b>Smaller equipment footprint</b>      | Maintain building aesthetics and functionality, reduce disruption during deployment, and lower upfront costs with compact equipment that's easy to install  |
|  <b>Scalability</b>                      | Manage costs by starting small and expanding as your needs grow   |
|  <b>Equipment redeployability</b>        | Move and reuse mobile boosters if you expand or relocate, maximising equipment lifespan and reducing the need for new equipment as your requirements evolve |
|  <b>Operations and maintenance</b>       | Minimise downtime and enhance operational efficiency with full management support, built-in diagnostics and easy access to performance data                 |
|  <b>No need for carrier approvals</b>    | Deploy mobile boosters faster by avoiding lengthy MCF approval processes  |
|  <b>Dedicated indoor mobile coverage</b> | Get better coverage and capacity through your building with a dedicated DAS   |
|  <b>Expert delivery</b>                  | Trust our extensive experience designing, delivering and operating DAS and mobile booster solutions   |



# In-building coverage solutions in action

Here's how in-building coverage solutions from BAI helped organisations in Australia improve connectivity throughout their buildings, delivering better results for staff, customers and patients.

## Improving patient care at a small private hospital in Sydney

This hospital had been experiencing longstanding issues with mobile reception. The building's concrete structure made it impossible to make or receive phone calls, especially in the basement, which hindered the ability of doctors and other staff to perform their duties.

We installed a mobile booster system with an antenna on the roof for each mobile carrier and indoor units to distribute the signal where it was needed. That significantly improved 4G and 5G coverage in the main corridors of the lower ground level, enabling staff, patients and visitors to not only make calls, but also browse the internet, use social media and stream video.

## Transforming mobile coverage at a private hospital in South Australia

The building materials used at this hospital made mobile coverage challenging before construction was even complete, with tradespeople forced to leave the site to get enough signal to make calls. This made it harder for them to do their jobs and degraded the experience for everyone on site.

Our mobile booster solution used rooftop antennas plus 25 indoor antennas to deliver enhanced 4G and 5G mobile coverage across five levels of the hospital. No longer faced with poor or even non-existent coverage, tradespeople could perform their work effectively. Now that the hospital is operational, staff, patients and visitors can confidently make and receive calls and use their mobile services throughout the building.

## Enabling new opportunities for a shopping centre in Sydney

Mobile coverage had been an issue in this shopping centre for almost 10 years, with staff, tenants and guests largely unreachable and unable to use mobile services when they were inside.

We deployed antennas on the roof as well as a network unit that supplies power via ethernet cabling to coverage units throughout the building. With our mobile booster solution deployed, coverage has dramatically improved in six priority areas within the shopping centre. Stores can now take advantage of wireless payment terminals, and the centre can offer pop-up shopping opportunities that were previously impossible.





# Your partner for better in-building coverage

Our deep experience designing, deploying and managing all types of wireless networks makes us the ideal partner to bring better connectivity throughout your entire building.

## Assess

We consult with you, visit your site and conduct a full coverage study to understand your needs, pain points and goals. We'll identify the most vital target areas and deliver a formal quote so there are no surprises.

## Design

We design a solution that will deliver the results you want and have it approved by all local carriers to ensure they're on board. We then procure all required hardware and equipment and provide you with full documentation of the plan.

## Deploy

We install all equipment and cabling and conduct a full commissioning of the system to ensure everything works as it should. We'll leave you with complete as-built documentation so you know exactly what you have and how to use it.

## Operate and maintain

Once the network is up and running, we monitor it continuously and carry out routine maintenance to ensure top-notch performance. We proactively identify any issues as they emerge so we can resolve them before they cause disruption.



## Contact us

Find out how BAI's in-building coverage solutions can connect every corner of your building:  
[baicommunications.com](http://baicommunications.com)



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