A GUIDE TO
BUILDING YOUR
OWN COVERAGE
In office buildings and facilities across America, basic amenities like electrical, gas and plumbing are essential components that are planned and constructed.

The new amenity being planned or added by building owners, architects and operators?

Reliable, in-building wireless coverage.
It’s needed everywhere: In commercial offices, university buildings, stadiums, retail spaces – anywhere teams of employees, tenants or large crowds gather.

With 80% of mobile traffic starting and ending in a building, owners, operators and commercial developers recognize wireless infrastructure is crucial – just like HVAC, electrical and plumbing.

**IN-BUILDING WIRELESS INFRASTRUCTURE: WHY INVEST?**

**WHAT DO BUILDING MANAGERS, OPERATORS & ARCHITECTS THINK?**

87% AGREED: It’s imperative that we have in-building cellular coverage in all areas of our buildings.

84% AGREED: Fitting our buildings with optimal in-building cellular coverage would improve our employee productivity.

54% AGREED: Wireless connectivity makes a building more desirable.

Source: CommScope Report – Wireless in Buildings
Indoor wireless networks create outstanding coverage and capacity in your building or venue — even when it’s at its most crowded — and this is crucial as mobile connectivity is revolutionized with 5G technologies.
GROWING DEMAND FOR IN-BUILDING WIRELESS

77% of Americans currently own a smart phone.
(Pew Research Center)

70% of data usage and 60% of mobile calls occur inside buildings.
(Urban Land Institute)

5 hours per day is the average amount of time smart phone users spend on mobile devices.
(Fierce Wireless)

70% of the 240 million calls to 911 each year are made on wireless devices in many areas across the U.S.
(NENA: The 9-1-1 Association)

70% of the time spent on digital media is on a mobile device.
(comScore)

80%
T-Mobile’s Build Your Own Coverage (BYOC) program supports building owners, tenants, operators and commercial developers across the country. We assist with design and development of indoor wireless networks, helping deliver outstanding mobile coverage and capacity that meets the needs of tenants, residents and visitors.

Commercial real estate is boosted by expert use of wireless technologies including small cells, macro network optimization and distributed antenna systems (DAS).

When building owners or operators plan for electric connectivity as well as capital and operating costs, T-Mobile’s BYOC team steps in with network design reviews, approvals, and our network signal source. When matched with carrier-designed high-speed connections, radios and receivers, the building’s visitors, tenants and guests get access to T-Mobile’s wireless services – and other carriers’ networks when added to the indoor infrastructure.
Small cells are miniature versions of traditional cell sites. These self-contained cell sites are small, lightweight and low power. They can be used indoors so large crowds of people can simultaneously access a wireless network, or they can be placed outdoors in the public right-of-way, like on street lights and utility poles.

A distributed antenna system (DAS) network is made up of a base station connected by fiber optic cable to a group of antennas placed remotely in outdoor and indoor locations. DAS networks share and receive signals with remote nodes simultaneously, creating a single large cell. DAS systems can be shared by multiple carriers and are multi-frequency.

Traditional macro sites are installed on rooftops, building facades, monopoles and other steel structures. These traditional antenna support structures handle many users across a general geographic footprint.
GETTING STARTED
BYOC STEP-BY-STEP

T-Mobile’s network team
and operational experts have deployed countless numbers of
indoor wireless networks of every shape, size and configuration.
Our BYOC team removes building professionals’ pain points and
streamlines the technology deployment process.

HowMobileWorks.com/smallcells

PREP FOR BYOC

Find Wireless Partner

The first step is to find a strategic partner to help create a wireless
infrastructure plan. Need help developing an RFP or finding the right OEM or
integrator? Contact us at BYOC@T-Mobile.com.

STEP 1

Sign-Up / Intake

WEEKS 1-4

Meet the local market and/or national BYOC team, learn more, and sign-up.

STEP 2

Budget Approval

WEEKS 4-6

We will gather information including general system characteristics, proposed
T-Mobile role and system signal power allocation, and backhaul requirements
for budget approval.

STEP 3

Design Review

WEEKS 4-8

We will reach out to your integrators for design files in iWave format based on
broadcast channels and bands. We will then finalize the signal source T-Mobile
will provide.

STEP 4

License Agreement Development

WEEKS 4-8

The BYOC License Agreement will need to be signed by both parties. During legal review and after design approval, our local market teams will visit the site to develop lease exhibit drawings.

STEP 5

Deployment

WEEKS 16-24

Once the license is fully executed, we will move to the deployment phase.

At T-Mobile, we do not stop.
Building architects, developers or operators, contact us and learn more about our Un-carrier approach to small cell and DAS options for any of your indoor wireless connectivity needs.

Contact us at BYOC@T-Mobile.com
HowMobileWorks.com
For the 10th straight year, T-Mobile has been recognized by Ethisphere as one of the World’s Most Ethical Companies. The program honors companies that excel in three primary areas: 1) Promoting ethical business standards, 2) enabling managers and employees to make good choices, and 3) shaping future industry standards by forging tomorrow’s best practices today.