

CELLULAR

DISTRIBUTED ANTENNA SYSTEM

RELIABLE INDOOR CELLULAR
ENHANCEMENT WITH ADDED CAPACITY
FOR SMALL TO MID-SIZE STRUCTURES

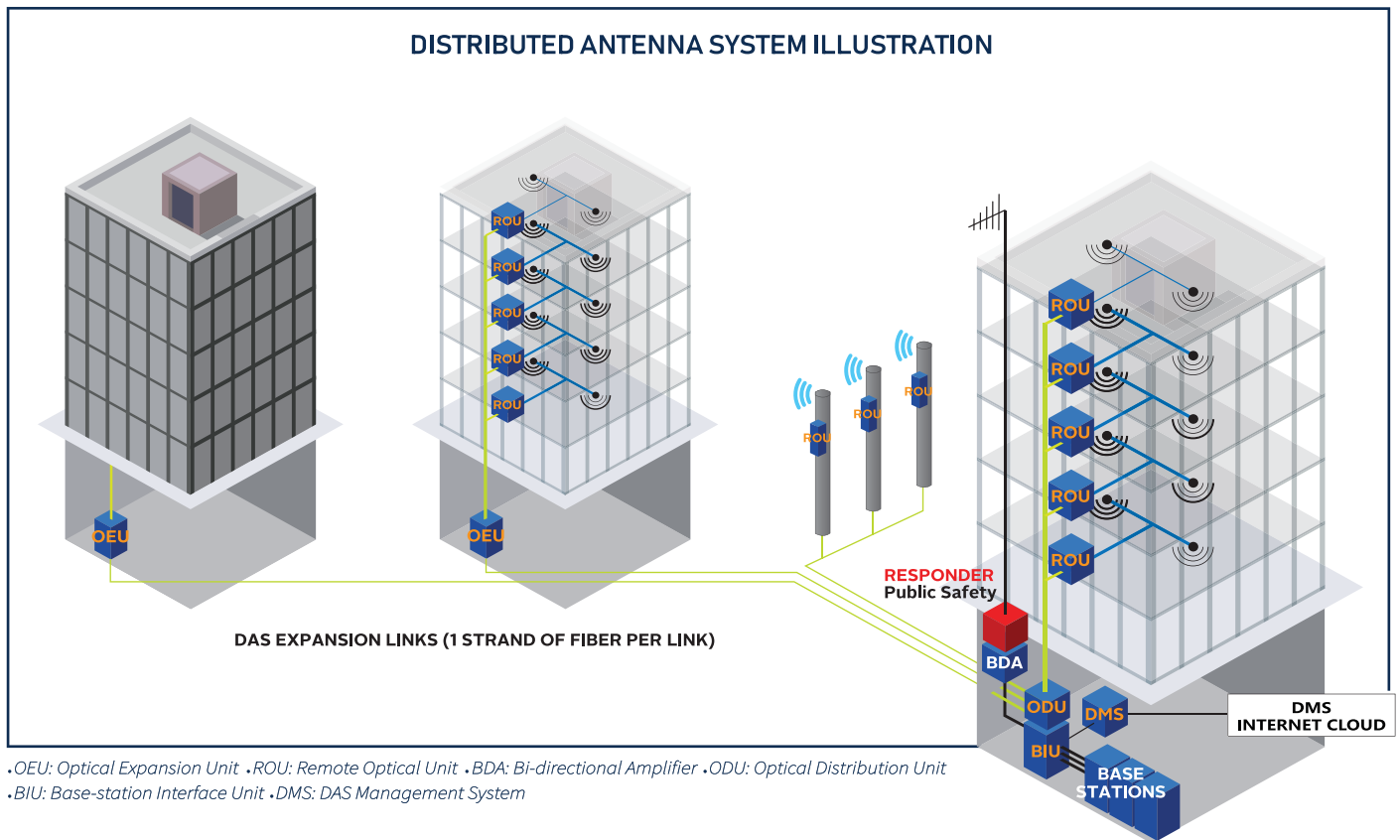


TELECO[®]
COMBINING TECHNOLOGIES

WHAT IS CELLULAR DAS?

A cellular distributed antenna system (DAS), also known as an in-building wireless system, is a way to deal with poor reception inside a structure. TELECO can provide a solution to this issue by installing a network of relatively small antennas to serve as cellular signal repeaters. These antennas are physically connected to a central controller which is integrated with the wireless carriers network.

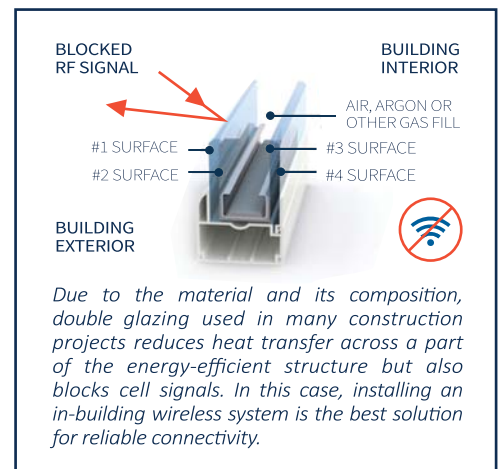
TELECO OFFERS RELIABLE INDOOR CELLULAR ENHANCEMENT



WHY USERS EXPERIENCE POOR CONNECTIVITY INDOORS

Poor cellular connectivity is a very common problem indoors and is more than likely due to the construction material used in a building. Concrete, metal and low-e glass materials, especially in LEED-certified buildings, can bounce back cellular and radio frequency signals resulting in low signal or frequently dropped calls. Additionally, the amount of voice and data required simultaneously by multiple users can slow down or even interrupt cellular performance.

Installing a TELECO cellular DAS provides a solution for poor connectivity, enhances the user experience, and will keep your customers connected and happy. Building owners can maximize their revenue potential by providing uninterrupted coverage while keeping up with the demands of today's mobile device users.



CELLULAR COVERAGE VS. WI-FI

You've probably heard of 3G, 4G, 5G and Wi-Fi. In today's increasingly mobile world, there are a variety of ways to get connected to the internet. What's really the most reliable and safest way? Truth be told, in-building wireless is the most secure option and the only technology your customers can actually rely on to call 911.

WHILE WI-FI CAN OFFER CONNECTIVITY, IT MAY COME WITH A PRICE



- Wi-Fi users are at high risk from hackers when using mobile devices.
- Wi-Fi is a secondary way to access network resources and should not be considered as reliable as wired connections.
- Wi-Fi calling may provide poor voice quality.
 - Wi-Fi users may drop their calls or data connections when entering or exiting a building.

WI-FI NETWORKS ARE NOT ENOUGH

Imagine your loved one at work needing medical attention or your child in their dorm room when a life-threatening event occurs. These are real-life scenarios that most people do not even consider when entering a building. When events do occur, there is an expectation of reliable connectivity to call emergency services.

A smartphone is the primary communication device used in critical situations and that is not the time to be searching for Wi-Fi access. Although most Wi-Fi networks are reliable enough for day-to-day business operations, it should not be relied upon for contacting emergency services. Subsequently, since most buildings have poor cellular connectivity, there needs to be a permanent solution. **A cellular DAS installed by TELECO will provide the necessary coverage and user capacity required in times of need, giving callers peace of mind that they will get help.** And building owners can feel good about providing a level of service that can save lives and help avoid possible litigation.

INSTALLING A DISTRIBUTED ANTENNA SYSTEM HELPS TO ENSURE THE SAFETY OF THE BUILDING'S OCCUPANTS.

WI-FI IS NOT RELIABLE FOR 911 CALLS

WHY TELECO CELLULAR DAS?

We offer indoor wireless tailored to your needs. Our experienced team works with the client to develop customized solutions based on the site conditions and building management requirements. We then stay involved throughout permitting, construction and installation of your system.



IN-BUILDING WIRELESS IS THE 4TH UTILITY

Nearly 80% of all communications happen indoors. Reliable cellular connectivity is now considered a necessity, not just an amenity. Increasingly, users are demanding seamless cellular reception wherever they go.

WE OFFER CUSTOM DESIGNED SYSTEMS FOR YOUR INDOOR COVERAGE AND USER CAPACITY NEEDS. KEEP YOUR EMPLOYEES AND CUSTOMERS HAPPY BY INSTALLING A RELIABLE CELLULAR DAS FROM TELECO.

LOW/NO UPFRONT COST OPTION AVAILABLE*

MAXIMIZE YOUR BUILDING'S REVENUE POTENTIAL THROUGH POSITIVE CUSTOMER EXPERIENCE

* Certain criteria apply. Call us for more information.

WE OFFER THE FOLLOWING TURN-KEY SERVICES

- **Project Scope** - We create scopes of work and project specifications.
- **Client Representation** - We serve as the owner's representative and interact with other trades.
- **Pre-Installation Benchmark Testing** - We test a building with industry calibrated equipment to gain an understanding of the signal strength. We target only areas needing enhancement in order to keep costs to a minimum.
- **System Design** - We use tools such as AutoCAD® and iBwave® to submit to carriers.
- **Equipment Procurement** - All equipment is prepared and tested by our procurement center.
- **Equipment Installation** - We have manufacturer-trained, certified installation and commissioning technicians.
- **Post-Installation Data Collection and Processing** - We perform system validation to ensure the cellular DAS meets or exceeds the design requirements and customer expectations.

STRATEGIC FOCUS

TELECO offers in-building wireless solutions for small to mid-size structures. These include commercial real estate, healthcare, hospitality, multifamily condominiums, higher education, retail and small office buildings. We offer the perfect solution for each market. We manage the entire process from site survey and system design to installation and monitoring services.



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DAS AND SMALL CELLS

When necessary, TELECO custom designs in-building systems that utilize both DAS and Small Cell technologies. Small Cells are low-powered cellular radio access nodes that operate in both licensed and unlicensed spectrums. They have a range of up to several miles and are used for in-building and outdoor wireless service in areas requiring much higher user capacity. TELECO will review your facility requirements and propose the best solution which may result in a combination of both technologies.

ABOUT TELECO

Founded in 1981, TELECO is located in Greenville, SC. TELECO offers Cellular and Public Safety DAS, Unified Communications as a Service, Business Phones, TELECO's Perfect View™ Video Surveillance and Building Access Control, Structured Cabling and Managed IT. With over 350 Authorized Dealers and 2000 Affiliates across North America, you can rest assured that you are in good hands with TELECO.

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