
It is estimated that Small Cells will benefit 9.7 million buildings within the next five years.

Indoor small cells are essential for businesses and enterprises to provide seamless, high-quality connectivity inside buildings. With the rapid growth of mobile traffic, indoor small cells enable businesses to enhance customer experiences, improve productivity, and ensure mission-critical communication in critical situations.

Benefits of Indoor Small Cells:
- Enhance Customer Experience: Improve customer satisfaction by providing better connectivity inside facilities.
- Improve Productivity: Ensure employees have access to data and communications when needed, even in remote or high-traffic areas.
- Ensure Mission-Critical Communication: Provide reliable connectivity for emergency response services and public safety systems.
- Enhance Business Operations: Support business operations with high-speed, reliable connectivity.
- Provide Local Access: Enable employees to access enterprise LANs for additional resources.
- Integrate Mobile Handsets: Connect mobile devices to enterprise PBX dial plans and services.
- Improve Speed and Accuracy: Enhance the speed and accuracy at which callers are located indoors.
- Process More Vertical Location Data: Support various types of location data to assist in emergency response.
- Provide Local Access to an Enterprise LAN: Enable access to company resources for employees.
- Enable Short Message Service Alerts: Send alerts to emergency responders when entering a Small Cell indoor coverage area.
- Switch Profiles Automatically: Automatically switch profiles when people leave the indoor coverage area.
- Provide Subdivision and Data Traffic: Organize data traffic for efficient management and control.

Key Verticals Where Indoor Activity is Highest:
- Hospitals and Health Care Facilities
- Large and Public Buildings
- Convention Centers
- Hotels and Hospitality
- Malls
- Transport and Public Transit
- Conference Centers
- Sports Venues
- Office Buildings
- Corporate Enterprises
- Retail

Indoor small cells are particularly beneficial in these environments due to the high density of users and the need for robust connectivity to support critical applications.

How can these networks be designed, managed, and operated to handle the indoor coverage and capacity?

Good enough is not acceptable.

In order to respond rapidly to life-threatening crises, emergency medical personnel must rely on indoor calls to go through on the first try. In 2014, a survey of 911 personnel revealed that:
- 67% accuracy of 911 personnel could benefit from improved indoor coverage.
- 64% of indoor calls are made with mobile phones.
- 60% of 911 personnel made with mobile phones.
- 76% of 911 personnel rely on location services to accurately pinpoint callers in distress.
- 79% of indoor calls are made indoors.
- 80% of indoor calls are made with mobile phones.
- 85% of indoor calls are made with mobile phones.
- 88% of indoor calls are made with mobile phones.
- 91% of indoor calls are made with mobile phones.
- 99% of indoor calls are made with mobile phones.

Find Me 911 Coalition notes. Data indicate Small Cells can benefit 9.7 million buildings.

Why Calling 911 on Your Cellphone Is Not Always a Good Idea.


SMS, Text, Voice, Video, Data: And you don’t have to do it alone.

Small Cells can provide coverage for a variety of applications, including:
- Public Services: Provide coverage for public safety and emergency response services.
- Enterprise Services: Support business operations with robust connectivity.
- Government Response Services: Enhance response to emergency situations.
- Internet of Things (IoT): Support IoT devices and applications.
- Subdivision and Data Traffic: Organize traffic for efficient management.
- Improve Speed and Accuracy: Enhance the speed and accuracy at which callers are located indoors.
- Process More Vertical Location Data: Support various types of location data.
- Provide Local Access to an Enterprise LAN: Enable access to company resources.

Small Cells are essential for businesses to support critical applications and ensure mission-critical communication. To learn more about Small Cells, go to www.cisco.com/go/smallcell.

Prepare for the Next Generation of Integrated Small Cells.

Public Services
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Internet of Things
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Subdivision and Data Traffic
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And you don’t have to do it alone.


FindMe911.org. 2014.


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Cisco. 2014.