

Hybrid DAS “RF Standpipe”

We have all seen fire department water standpipes outside buildings and probably not paid too much attention to them. When a fire pumper arrives, they supply their water into the standpipe which distributes water into pre-installed pipes in the interior of the building, providing much needed fire protection.

Just like water, providing fireground radio communications inside a building is critical to firefighter safety. There are several ways to address in-building coverage for firefighters, and a number of fire departments have taken a unique approach to solving in-building coverage by using what is known as the “hybrid DAS” or the “RF Standpipe” method.

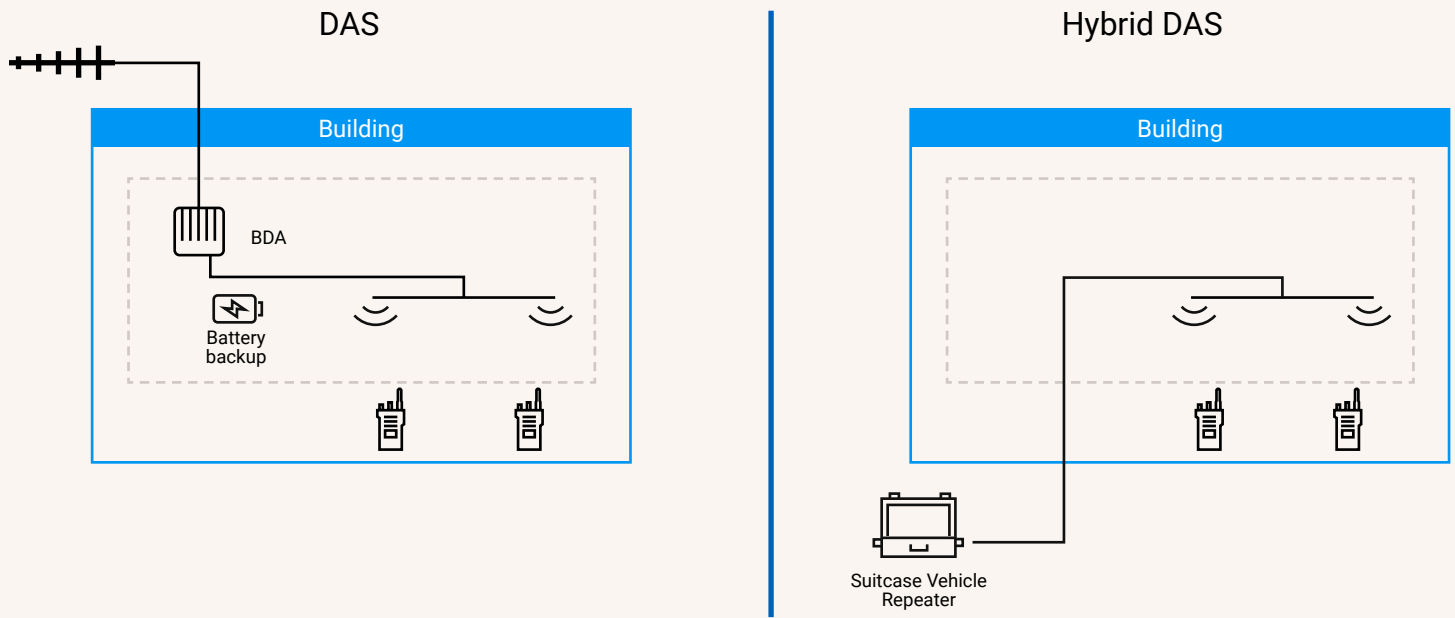
Customer profile

Users

- Fire Departments

Applications

- In-building coverage
- Subway platforms
- Tunnels
- Shipboard communications



A hybrid DAS is made up of two coverage solutions offered by Motorola Solutions, each with a slight variation. The first solution is a distributed antenna system (DAS) consisting of coaxial cable antennas which are strategically placed throughout the building. The Bi-Directional Amplifier (BDA) which would normally amplify the signal is replaced with a Motorola Solutions suitcase vehicle repeater that the fire department brings with them on the call.

When the fire department arrives at the building, they unload their suitcase vehicle repeater and connect it to a main RF connection, which might be located on the outside of the building or in a fire pump room. The vehicle repeater feeds radio signals into the pre-installed DAS, which allows RF signals to travel throughout the building, just like a standpipe delivers water throughout the building. When the incident is over, the firefighters simply disconnect the suitcase vehicle repeater and leave.

The hybrid DAS provides instant radio communications and can be used in a variety of applications. Along with APX portable radios, this approach helps ensure that voice calls are delivered to the network along with the portable radios' PTT and emergency IDs.

To learn more, visit: motorolasolutions.com/dvr-lx



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com

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