

Extending radio coverage on Military bases

Military bases have many areas where radio coverage can be a challenge. Whether it is outpost buildings, hospitals or on the firing range, military personnel require radio coverage to ensure base operations are at their most efficient. Yet coverage issues can occur, particularly in remote areas outside the base.

The Motorola Solutions DVR-LX vehicular repeater is a conventional repeater that is connected to an APX mobile radio. When installed in the back of a firetruck or patrol car, the vehicle repeater extends portable radio coverage. A user in the field uses their portable radio to connect to their vehicle, and the vehicle repeater uses the higher power of the APX mobile radio to connect to the radio system.

Customer profile

Users

- Base Fire Departments
- Base Military Police
- Base Operations

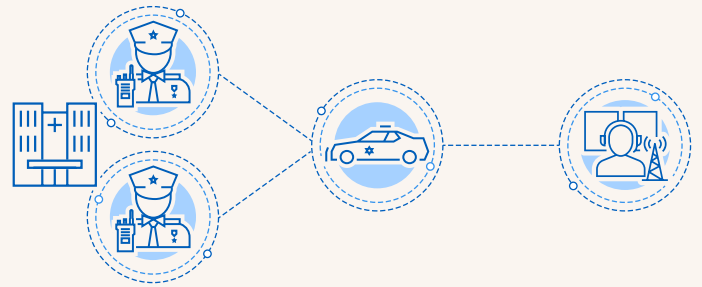
Applications

- Public safety radio coverage throughout military and naval bases

The DVR-LX has been used by many bases to extend in-building radio coverage for the base fire departments, military police and operations. This works well in areas with mobile radio coverage and for users that have their vehicle nearby.



In the areas outside of the base and further away from a tower, portable radio coverage may not be available. To solve their coverage challenges, agencies have used a DVR-LX which is configured for rackmount installation and permanently installed in fixed locations. The DVR-LX rackmount repeater fits in a standard 19" rack and can be housed in an environmentally protected location with needed power and fixed antennas. It seamlessly integrates with a Motorola Solutions APX mobile radio also installed in the rack to provide a reliable RF backhaul. Missile sites in mountainous regions, range control, chemical and weapons storage areas and remote buildings are a few examples where the DVR-LX rackmount repeater has been deployed.

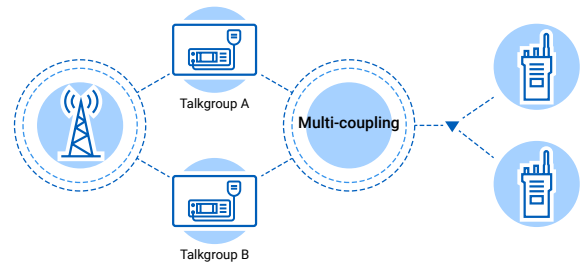


One agency solved portable radio coverage challenges at a firing range to ensure added safety during firing exercises. The agency wanted to listen to two talk groups so a solution was developed to use two DVR-LX rackmount repeaters, which extended two talkgroups simultaneously by adding multi coupling and feeding into a single antenna.

Using Motorola Solutions APX portable radios means that voice calls are delivered to the network along with the portable radios' PTT and emergency IDs.

Military and federal agencies looking for an alternative coverage extension solution at bases can look to the DVR-LX rackmount solution as a vital asset in their coverage solution playbook.

The DVR-LX is also available in a suitcase to maximize flexibility.



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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