



VECTOR RESOURCES, INC.
ENTERPRISE NETWORK SOLUTIONS



CASE STUDY: GOVERNMENT

City of **MANHATTAN BEACH**

Sun.

Surf.

Fully networked emergency services.

Thanks to Vector Resources, Manhattan Beach has it all.

PROJECT SUMMARY

- As a network consultant, Vector Resources provided input at the planning and design stage of a bid process to upgrade the City of Manhattan Beach's co-located police and fire facilities.
- As the project matured, Vector teams took advantage of technological advances to install a groundbreaking server-to-vehicle wireless network.
- Police vehicles are able to wirelessly sync onboard computers with City servers, saving time and enhancing public safety.

The problem:

While the City of Manhattan Beach was working with Vector Resources to complete the installation of a data network in the building housing its police and fire departments, an opportunity arose that was too good to pass up. Advances in technology made it possible for mobile computers, such as those installed in police cars, to sync wirelessly with hardwired servers. Eager to take advantage of emerging technology, the City and Vector moved quickly to include the new capabilities in the department's arsenal.

The solution:

In addition to installing nearly 600 CAT-5e terminations throughout the City building and reterminating the fiber optic backbone that originates at City Hall, Vector teams surveyed the surrounding environment and located the optimal locations for the new wireless access points. With three access points underground and two exposed to the elements, engineers had to lay conduit and junction boxes to house the necessary hardware and wiring. Standard 128-bit encryption was included as part of the deal.

The future:

With the new wireless network, Manhattan Beach police officers are able to upload patrol data to the City system and download breaking updates to their onboard computers, all without leaving their vehicles, saving time and increasing force efficiency. Vector continues to provide service and support to MBPD, keeping the City in a public safety leadership position throughout the region.

PHOTO: WEBB BURNS