



## KEEPING TRACK : RAIL SECURITY

CUSTOMER: National High-Speed Railway, Spain

CHALLENGE: Better protect some of Spain's busiest high speed rail lines

RISKS: Terrorist attacks; theft; vandalism; employee safety

### SITUATION

This high-speed rail system provides passenger and freight service over heavily traveled national routes, and the managing authorities expressed concerns regarding safety and security along the rail lines. Concerns included the possibility of terrorist activity directed at rail passengers and/or property (a concern heightened by recent events). Potential issues also involved organized and opportunistic criminal activity such as theft and vandalism, and more basic safety issues such as timely notification regarding accidents or track obstructions that would allow trains to be safely slowed or re-routed. An extensive network of surveillance cameras was already in place that needed to be better leveraged to provide enhanced security along the lines.

### SOLUTION

ObjectVideo VEW was deployed in multiple locations to enhance security for this high speed rail system through its advanced intelligent video surveillance capabilities. Using ObjectVideo VEW, rail security personnel are able to set rules using virtual "areas of interest" to monitor rail crossings, overpasses, and adjacent areas. Because ObjectVideo VEW accurately detects, identifies, classifies and tracks objects and people, the system automatically detects activities that violate security policy and notifies security personnel about suspicious activities in real time. ObjectVideo VEW automatically monitors specified areas for unauthorized people and vehicles loitering on overpasses or in the vicinity of rail lines, for unauthorized activity on or near the rail tracks, for suspicious objects (e.g. backpacks or bags) left on or near tracks, and for objects that are large enough to de-rail trains or cause serious accidents. Because ObjectVideo VEW is capable of distinguishing non-threatening objects and controlling false alerts, the software maximizes the effectiveness of security personnel, allowing them to focus their efforts on potential threats, enhancing protection for all rail passengers, freight and facilities.

**ObjectVideo® VEW®** enables Spain's high-speed rail network to optimize existing surveillance cameras for enhanced safety and security.