

# CASE STUDY: TRANSPORT

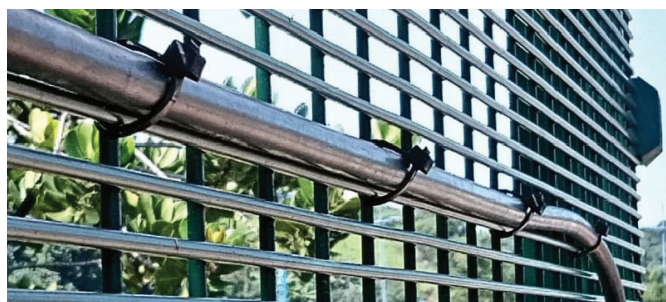
## BRAZILIAN RAILWAY



With railway trespassing leading to a heightened risk of accidents, this Brazilian transport operator decided to implement a state-of-the-art intrusion detection solution to provide advanced alerts of fence climbing, while delivering minimal nuisance alarms triggered by passing trains.

### Background

As the first railway to operate in this Brazilian city, most of the stations and lines are located above ground - causing route changes and delays for both vehicles and pedestrians. Local residents regularly climbed fences along the railway line to take a shortcut across the tracks ignoring the potential risk of a fatal accident. To deter this dangerous activity, FFT Aura Ai-2 was installed to monitor the perimeter fences along each side of the tracks. Triggering a precise location alarm at the time a person starts to climb the fence, this information is automatically relayed to the Video Management System (VMS). The closest CCTV camera is activated to allow for a visual evaluation of the situation and an appropriate response to deter the trespasser.



### Our Solution

Following competitive Proof of Concept trials with several PIDS providers, FFT's intrusion detection solution was selected to protect this railway perimeter. This was due to its low nuisance alarm capability despite trains travelling by one meter from the fence. FFT Aura Ai-2's pinpoint detection capability in this challenging environment was another deciding factor. With 20km of fiber cable installed on fences along each side of the railway tracks, the client is now looking to extend the solution by another 20km to protect the entire subway line.

### Requirements

- Protecting the perimeter with a single system
- Pin pointing the precise location of an intrusion
- No power in the field
- Immune to EMI/RFR and lightning
- No environmental nuisance alarms
- Server redundancy
- CCTV integration
- Capability to be extended



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