

Back-haul Connectivity Solution for Railways



Executive Summary

Wistron AiEdge's back-haul connectivity solution (for stations not on fiber network) enables communication services on par with the ones on fiber. The solution provides video streaming, voice and high-speed data services at remote stations. The core technology is based on multi-SIM bandwidth aggregation.

Industry & Country

Railways, APAC

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Objective & Challenges

- To provide robust and reliable back-haul connectivity for railway stations not connected on fiber and to offer various communication services on par with other stations
- To provide connectivity for SIP based control phones and PCs & equipment and to extend public Wi-Fi services

Solution & Approach

- Wistron AiEdge's UBonding solution was implemented to provide robust, boosted and reliable connectivity
- An edge gateway with 4 cellular connections (SIMs) was used to provide robust back-haul connectivity
- Multiple access points were connected to the gateway to provide Wi-Fi services to passengers
- SIP based control phone and PCs and other equipment was connected to the core telecom network to extend services like 2-way communication
- Customized routing policies were implemented to optimize application performance

Results

- Faster deployment and rollout with multi-SIM connection
- Boosted, reliable & un-interrupted connectivity
- Increased reliability and device uptime with SIMs from multiple operators