

New Type of Network Security Equipment for Railway Communication



Overview

The shift from GSM-R to the Future Railway Mobile Communication System (FRMCS) is a major development in railway telecom. While GSM-R has been the industry standard for decades, FRMCS will provide higher data speeds, greater bandwidth, and enhanced security. This thesis investigates the security implications of integrating 5G and WiFi technologies into modern railway communication networks.

Communications-Based Train Control (CBTC) is one of the most important innovative technology solutions to support increasing passenger volumes for railways. Cisco is helping. From improved Automated Train Operations (ATO) to trains equipped with advanced Train Control & Monitoring Systems (TCMS), real-time CCTV monitoring and more, the coming years will usher in a new era of highly connected trains and railways. For rail operators, this means greater management over the. Licensed and Unlicensed Ethernet Radio: Broadband radios allow high capacity for traffic delivery when fiber isn't available.

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Therefore, in this study, we reviewed the use of fifth-generation (5G) technology and Terrestrial Trunked Radio (TETRA) for data security and fast and stable digital communication in a railway system. Both ...

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This is the role of the Future Railway Mobile Communication System (FRMCS). Designed as the successor to GSM-R, FRMCS provides a standardized, 5G-based foundation for mission ...

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Digital Transformation in Train and Railway Communications

LTE-R (LTE for Railways): Specifically designed for rail networks, LTE-R enhances connectivity. This means that LTE-R enables high-speed wireless voice and data communications inside trains, ...

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Analysis of Security in Railway Communication Networks based ...

This is the main focus of this thesis, making sure the railway communication system can be improved to more recent technologies without compromising communications security.

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