

CABLE AML UPDATES SCADA SYSTEMS

Cable AML, in collaboration with a distributor who is familiar with the Rail customer's requirements, has undertaken the task of upgrading the SCADA Network for a large client. The existing network relied solely on RS232 communication, but now the goal is to integrate new units equipped with modern interfaces. For the upgrade, the RipEx-2 hardware has been selected and deployed for testing purposes.



The system is configured to utilize TCP/IP with Base Driven Protocol to handle communications, additional feature included using the core of Babel Protocol and Security extensions. In order to ensure optimal and error-free communication, Forward Error Correction (FEC) has also been enabled. RipEX is a highly regarded radio modem platform known for its exceptional data throughput in real-time environments. These radio modems are designed to operate in higher order modulation with interfacing seamlessly with IP networks, providing native support for IP-based communication protocols.

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As part of the upgrade, the implementation includes RipEX-HS, a fully redundant 19-inch hot-standby master station. This master station features two radios and two power supplies, offering a high level of reliability and availability. The RipEX-HS is compatible with both RipEX and RipEX2 radio modems.



The primary objective of this upgrade is to establish a robust Rail Communication system that can withstand the considerable levels of interference and electromagnetic noise prevalent in environments where powerful engines and manufacturing machinery are present. By achieving this, the SCADA Network will enable reliable and efficient management of train and carriage movements between manufacturing sites.

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