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Optimizing the Data Flow in a Network Communication Between Railway Nodes

Tytuł

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Abstract: An important element in the communications, providing a high level of requirements for transport by rail, is the need to ensure access to and exchange of data in a strictly defined time regime. Another

determinant of is to provide a guarantee of reliability. The achievement of these requirements is possible by evaluating current capabilities and adequate to the needs of implementing modern solutions. However, future hardware and software platforms incorporating new technologies and technologies are not always applicable to rail transport communications systems. Therefore, they require detailed analysis from the point of view of meeting the critical indicators i.e. Kg (availability factor), or MTBF (Mean Time Between Failures) and MTTR (Mean time to repair). Another aspect is the use of redundancy. The choice of method depends on the analysis of possible events in the environment in question. Proposed by the authors of the new variant does not require significant investment and is a flexible solution that provides the desired fitness of technical and functional correctness.

Keywords: Optimization, Data, Networks, Railway nodes

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