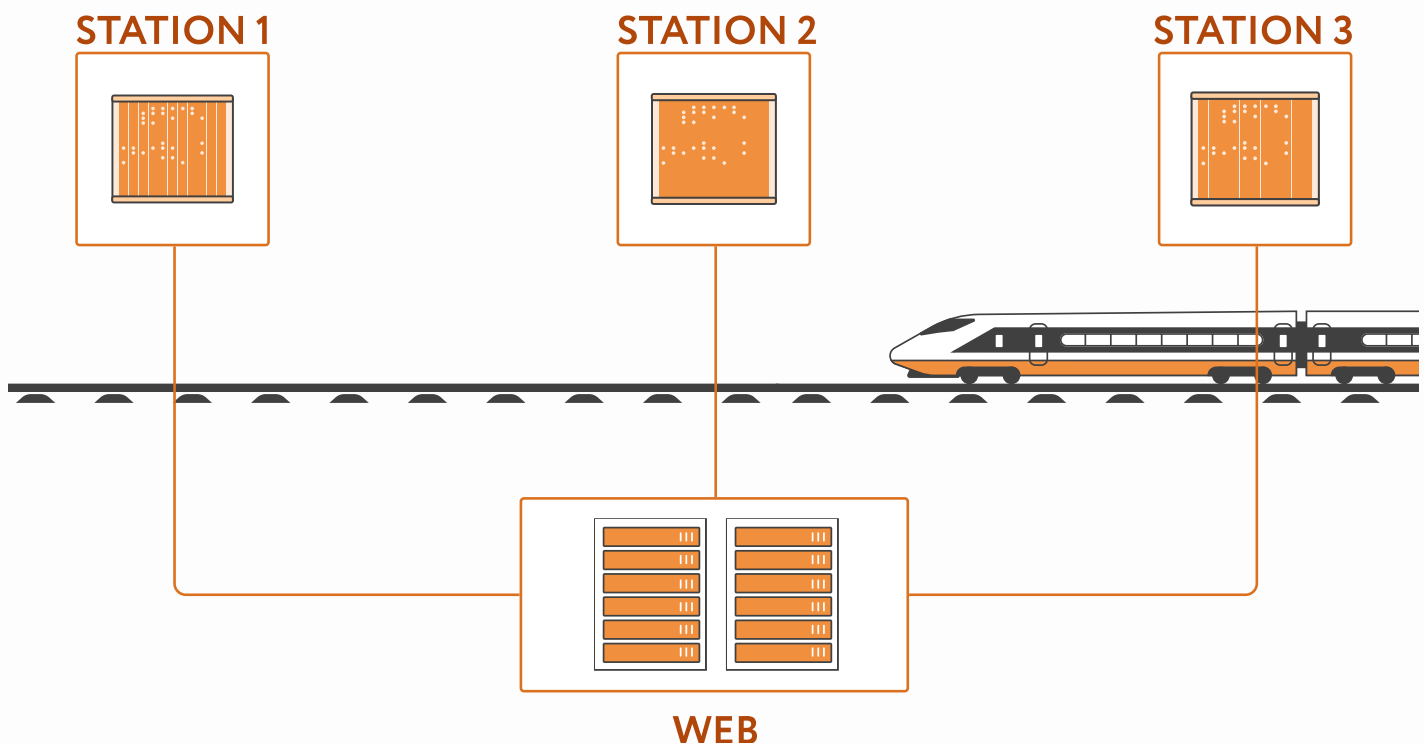


ADVANCED INTERSTATION COMMUNICATION

Datasheet

Project objective

Expand the functionality of the wayside controllers to maintain more complex messaging between each other in the field. Modify the critical communication protocol to support extended messages maintaining efficient and secure communication between wayside controllers.



Result

The provided modernization guarantees reliable interstation message exchange to be used within advanced signaling systems, while maintaining integrity, relevance, targeting, and timeliness of the message. The upgraded wayside controllers support new message types and transfer existing messages in a different way.

Scope of work

- ❖ Protocol-related advancements for the wayside controller's firmware. Addressing the legacy issues
- ❖ Web component improvements for a reliable gateway
- ❖ Offline tools modernization. Improvement for the compiler, reverse compiler, and comparison tools for building and adjusting logic applications for the controller
- ❖ Enhancements for the installation tool

Activities

- ❖ Requirements definition
- ❖ Software development
- ❖ VectorCAST testing

About the project

Technologies

- ❖ AutoCAD
- ❖ Visual C++ 6.0
- ❖ C/C++
- ❖ Inno Setup
- ❖ Yacc
- ❖ JavaScript
- ❖ Lex
- ❖ Lua



Project size

- ❖ 4 Software Engineers
- ❖ 2 QA Engineers

Duration



Platform

- ❖ Embedded
- ❖ Web
- ❖ Windows