THALES

Common Telemetry Infrastructure Platform (CTIP)

WHAT IS A COMMON TELEMETRY INFRASTRUCTURE PLATFORM (CTIP)?

CTIP enables bi-directional communication with trains on a real-time basis.

CTIP will be delivered in line with the delivery of the new PPP (Public Private Partnership) trains, offering better remote train management and monitoring functionality to RailCorp.

CTIP PHASE 1:

TO DEVELOP A CTIP PROOF OF CONCEPT PROTOTYPE.

CTIP PHASE 2:

TO FURTHER DEVELOP THE CTIP SOFTWARE TO A PRODUCTION LEVEL.

CTIP System Functionality

Once implemented CTIP will provide RailCorp with the following services:

1. Distribution of timetables to the trains
2. Distribution of announcement (text + audio) to the trains
3. Ability to view live video streaming CCTV from cameras on the trains
4. Retrieval of recorded video footage from the Digital Video Recorders (DVRs) stored on the trains
5. Retrieval of train alerts and alarms, for example: fire, doors obstruction, etc.
6. Retrieval of train metrics, for example: weight, distance travelled, etc.
7. Retrieval of train location information, for example: distance from last station, distance to next station, etc.
8. Retrieval of train event history
9. Distribution of transpositions to the trains. Transpositions are ad-hoc and last-minute changes to the current running timetable
10. Retrieval of Train Preparation Certificates.

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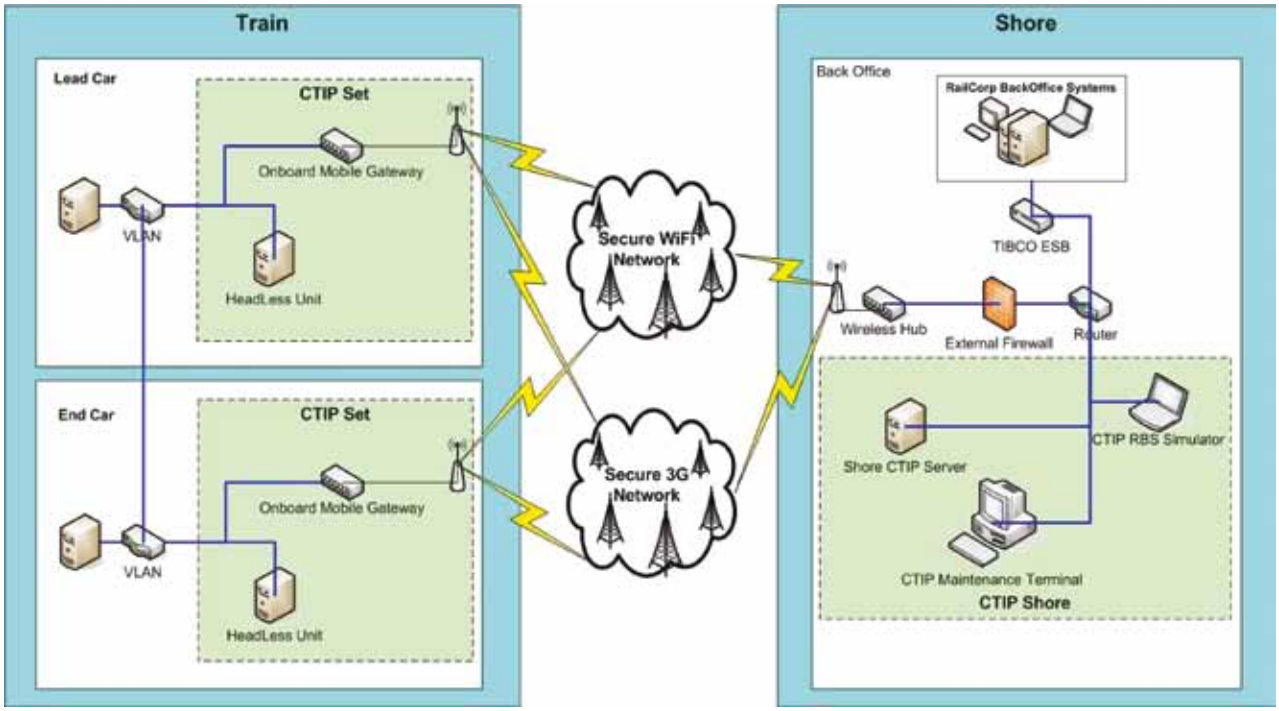
System Architecture Overview



The key capability required of CTIP is to provide a secure, rugged and reliable communications platform, based on open standards and commercially available hardware and software to ensure future maintenance and viability of the CTIP product.

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