INTELIGHT
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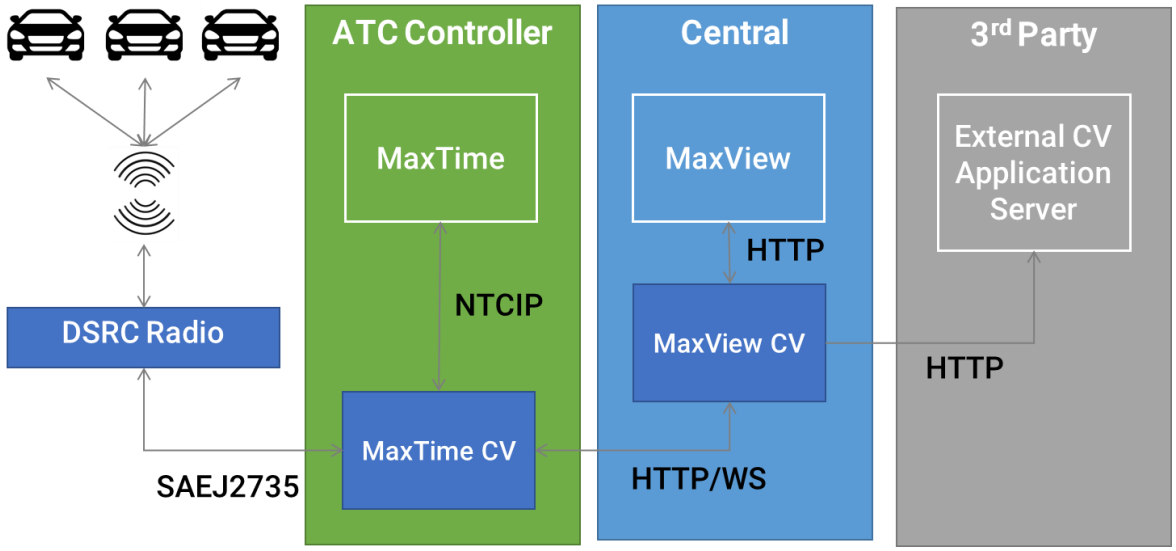
Intelight CV Platform

Overview

Intelight's Connected Vehicle applications, MaxTime CV and MaxView CV, are built upon the latest ATC, NTCIP and DSRC J2735 standards. MaxTime CV is built as a stand-alone embedded firmware application designed to run on ATC 5.2b or above compliant controller hardware. In addition, by leveraging the Linux kernel and the ATC API Standard v2.06b, MaxTime CV can run on the same physical ATC engine board as the existing MaxTime intersection firmware, thereby reducing the overall hardware cost of the CV deployment.
To enable connected vehicle scenarios, MaxTime CV communicates directly with the DSRC radio and signal firmware using published federal standards. To generate the SPaT and SSM message based on the current signal timing and operation, MaxTime CV communicates directly with the signal firmware utilizing NTCIP 1201, 1202 and 1211 message sets. MaxTime CV then creates valid J2735 messages including SPaT, MAP, and SSM to be broadcast on a connected DSRC radio or via a connected MaxView CV server application over the internet.



MaxTime CV Highlights

- Runs on the same ATC intersection controller as MaxTime
- Uses ATC API specification for shared interface
- Full web browser with rich status and configuration view
- Web-based configuration of MAP data — shared across MaxTime, MaxView and other apps
- Broadcast SPaT, MAP, SRM/SSM to connected DSRC or web service
- Connect with a broad set of DSRC radio or external services vehicle services
- Connected Vehicle Application Platform

MaxView CV Highlights

- Central based connected vehicle data aggregator
- Direct real time communication with MaxTime CV over HTTP/Websocket for fast exchange
- Log and analyze incoming SPaT, MAP, SRM/SSM messages
- Provides third-party real-time access to aggregate SPaT, MAP, etc. data with <1 sec latency.

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