

SAFESPOT INTEGRATED PROJECT - IST-4-026963-IP**DELIVERABLE****SP5 – COSSIB– Cooperative Safety Systems
Infrastructure Based****Specifications for Speed Alert**

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EXECUTIVE SUMMARY

This report presents the technical specification of the four applications related to Speed Alert, an application of the COSSIB sub project: Vehicle tracking, Legal Speed Limit, Critical Speed Limit and Excessive Speed Alert.

- Methodology

In order to clarify the overall context, the first step of this report is to present the considered application in the overall architecture and to identify the data flow generated at each step: event detection, generation and update of driving rules and warning to the driver. The relation between applications highlights the need of a strong cooperation at the Local Dynamic Map level.

Moreover, relations have been identified with other applications based on the infrastructure (SP5) and on the vehicle (SP4).

- Vehicle tracking

This application does not appear in the previous deliverables dealing with the car accident analysis. It responds to a need of other applications, within SP5, to have a means of addressing and supervising directly a given vehicle on the area covered by the roadside unit.

- Legal Speed Limit

The aim of this application is to provide to the driver at every moment the legal speed limit and to correlate it with the roadside warning unit on the area covered by the roadside warning unit. Moreover, the application is a gateway for the infrastructure manager that is responsible for the road policy to modify locally a speed limit.

- Critical Speed Limit

This application is in direct link with the Hazard and Incident Warning application. It enhances the message generated by the Hazard and Incident Warning with a speed recommendation.

- Excessive Speed Alert

The last application, Excessive Speed Alert aims to provide the driver a speed profile while approaching a static black spot of the infrastructure. The speed profile is generated taking into account the road surface and a detailed geometry of the road.

- Message Strategy

Speed Alert applications have developed a strategy to warn the driver accordingly to the kind of speed limit (legal or not) and the critical level (safety, critical).