

V2V technology could prevent hundreds of thousands of crashes every year by letting vehicles 'talk' to each other. That's the basis of a proposed rule by the US NHTSA (National Highway Traffic Safety Administration).



The proposed rule would require auto makers to include V2V technologies in all new light-duty vehicles. The rule proposes requiring V2V devices to 'speak the same language' through standardized messaging developed with industry. The notice of proposed rulemaking will be open for public comment for 90 days.

The proposed V2V devices would use the dedicated short range communications (DSRC) waveband to transmit data, such as location, direction, and speed, to nearby vehicles. That data would be updated and broadcast up to 10 times per second to nearby vehicles, and using that information, V2V-equipped vehicles can identify risks and provide warnings to drivers to avoid imminent crashes. Vehicles that contain automated driving functions, such as automatic emergency braking (AEB) and adaptive cruise control (ACC), could also benefit from the use of V2V data to better avoid or reduce the consequences of crashes.

V2V communications can provide the vehicle and driver with enhanced abilities to address multiple potential crash situations. V2V communications can detect developing threat situations hundreds of yards away, and often in situations in which the driver and onboard sensors alone cannot detect the threat. Privacy is also protected in V2V safety transmissions, as the technology does not involve the exchange of information linked to or, as a practical matter, linkable to an individual, and the rule would require extensive privacy and security controls in any V2V devices.