

SAFESPOT INTEGRATED PROJECT - IST-4-026963-IP**DELIVERABLE 4.5.1****SP4 – SCOVA – Cooperative Systems Applications
Vehicle Based****Technical and Functional Test**

Deliverable No. (use the number indicated on technical annex)		D4.5.1	
SubProject No.	SP4	SubProject Title	SCOVA
Workpackage No.	WP5	Workpackage Title	Test and Validation
Task No.	T4.5.1	Task Title	Technical and functional test of each in-vehicle components
Authors (per company, if more than one company provide it together)		Maria Carmela De Gennaro – MM Piero Mortara – MM	
Status (F: final; D: draft; RD: revised draft):		F	
Version No:		1.4	
File Name:		SF_D4.5.1_TechnicalandFunctionalTest_v1.4.doc	
Planned Date of submission according to TA:		31/12/2008	
Issue Date:		07/04/2009	
Project start date and duration		01 February 2006, 48 Months	

EXECUTIVE SUMMARY

This deliverable describes the technical and functional tests of the hardware and software modules (e.g. the components and the interfaces) developed for the implementation of the Safety Margin concept and related SP4 V2V safety applications.

The tests have been assessed through the utilisation of simulation tools, bench resources in laboratories, as well as directly within the equipped vehicles and in the Test Site environment. Each individual component of the “applicative layer” on which the V2V safety applications are based, is taken into account.

Distinct to the testing of the “internal modules” developed by SP4, the documented activity includes the testing of the “interfaces modules”, e.g. the functional elements in charge of sustaining the interaction of the in-vehicle applications with the external components and resources of the SAFESPOT architecture.

Concerning the methodological aspects, the ISO 9001 standard and the V - model approach have been used for the planning and for the implementation of the technical tests of the SP4 applications. The component testing activity is the input for the integration testing, which is part of the WT 4.5.2 – Functional Validation of the Safety Margin application.

Moreover, the methodology, the process and their associated tools have been discussed at IP CG Level and have been agreed upon all concerned SPs (SP1, SP2, SP3 and SP5). All of them will adopt an identical approach for their related testing activities in the respective WPs, by using the same test form “Templates for Planning and Reporting”, as proposed and recommended by SP4.

This will uniform the activities and documentation of the V&V for the entire SAFESPOT Project.