Rijkswaterstaat
Ministry of Infrastructure and the Environment

InterCor

3-6 July 2017 ITS-G5 TESTFEST

For several years various European projects have been working on the development of C-ITS services using ITS-G5 (WiFi-P). To practically enable the rollout of the interoperable C-ITS services, technical specifications will have to be validated in a broader context. This is why the EU project InterCor initiates a large validation event on the C-ITS Corridor section A16 near Dordrecht, the Netherlands.

Being a part of Intelligent Transport Systems, cooperative ITS encompasses technologies and applications that allow data exchange through wireless communication technologies between components and actors of the transport system, very often between vehicles or between vehicles and infrastructure. The deployment of C-ITS is an evolutionary process that starts with the less complex use cases. These are referred to as "Day-1-services", delivering messages about traffic jams, hazardous locations, road works and slow or stationary vehicles, as well as weather information and speed advises to harmonise traffic. Using probe vehicle and infrastructure related data, all C-ITS services will be transmitted directly into the vehicles in a way that allows users to get informed but not distracted.

InterCor: Interoperable Corridors

InterCor stands for Interoperable Corridors, linking the C-ITS corridor initiatives of the Netherlands Cooperative ITS Corridor, the French SCOOP@F and extending to United Kingdom and Belgium C-ITS initiatives. InterCor is a three year project of 30 million Euros co-financed by the European Union under the Connecting Europe Facility. The project aims to enable vehicles and related road infrastructure to communicate data through cellular, ITS G5 or a combination of both networks on road corridors running through the Netherlands, Belgium, the UK and France. The overall goal is to achieve safer, more efficient and more convenient mobility of people and goods.

Four TESTFESTs

InterCor aims to streamline C-ITS implementation in the four EU member states, linking the different national initiatives towards a harmonized strategic rollout and the use of common specifications. To achieve that, four TESTFESTs are organised in 2017 and 2018. The findings of the InterCor TESTFESTs will contribute to the elaboration of harmonised deployment specifications in the C-Roads Platform.

The four InterCor TESTFEST interoperability events:

1. ITS-G5 TESTFEST: Validating the common set of specifications for existing services through ITS-G5.
2. Hybrid communications TESTFEST: validating the final set of upgraded specification for hybrid communication.
3. PKI TESTFEST: validating the common certificate policy (CP).
4. C-ITS services TESTFEST: validating the common service specifications upgraded for logistics services and traffic management.

In this respect InterCor will contribute to the roll-out of seamless and interoperable C-ITS services across Europe.

TESTFEST 1: focussing on ITS G5 services

The first TESTFEST, focusing on ITS G5 services (Wifi-p), is held in The Netherlands July 3rd - July 6th, co-organised by the InterCor project together with ERTICO – ITS Europe and the Dutch partners of the Rijkswaterstaat Cooperative ITS Corridor project. This TESTFEST will take place on the motorway A16, near Dordrecht. Roadworks Warning (RWW), Probe Vehicle Data (PVD) and In-Vehicle Signage (IVS) services are developed and implemented and will be available via fixed roadside units (RSUs) for testing both in representative lab environments and real life traffic conditions. The objective of the InterCor ITS-G5 TESTFEST is to validate the interoperability of existing ITS-G5 services based on the common set of specifications.

Program

The InterCor ITS-G5 TESTFEST is open for registered public and private organizations (public authorities, road operators, systems suppliers, services providers, vehicle manufacturers) by bringing on-board units and vehicles to test the interoperability with the so called Dutch Implementation. The program for the TESTFEST is to test Road Works Warning with related IVS in a lab environment (on Monday July 3 for preparation) and then have 3 days for open road testing with changing RWW and IVS scenarios every day. In addition the Dutch RSUs will collect the vehicle probe data made available by the registered participants during the event.

Monday July 3	Lab testing
Tuesday July 4	Open road testing
Wednesday July 5	Open road testing
Thursday July 6	Open road testing
	Side programme: presentations and workshops
Friday July 7	General Assembly InterCor

Reporting

After the TESTFEST event a report about the results and lessons learned will be produced. The report will include:

- Presentation of the test site
- Description of the services under test
- Test scenarios and test descriptions
- Qualitative and quantitative test results
- Lessons learned and conclusions.

The report will be made available to all TESTFEST participants and will also be published on the InterCor website, intercor-project.eu.