

InterCor overview

15-11-2017

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- Overview InterCor objectives
- Milestones InterCor
- Timelines for delivering input to InterCor



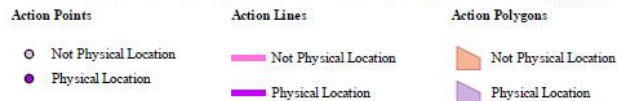
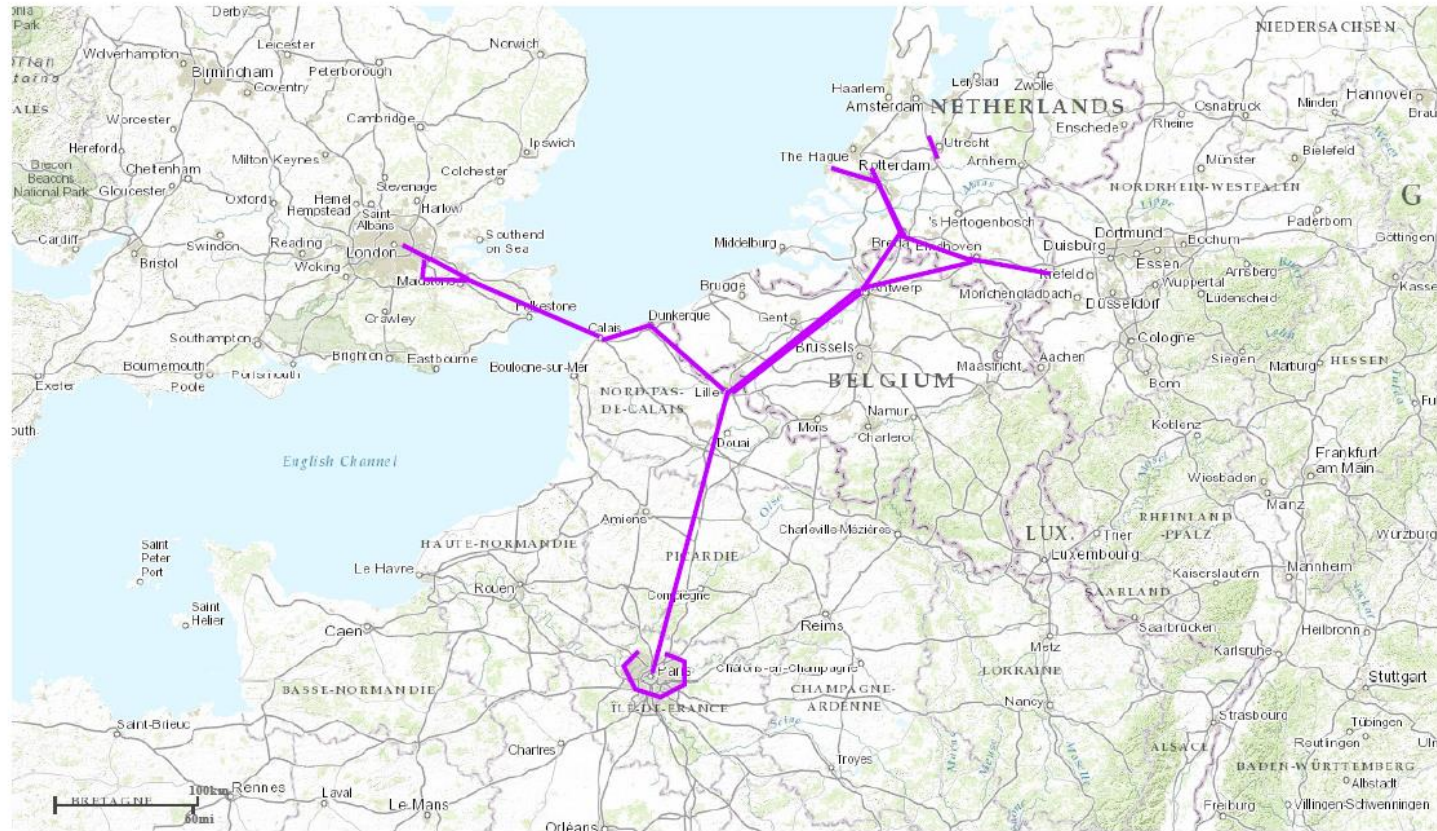
Connecting C-ITS corridors

By harmonising specifications

2/15/2016

INEA GIS Application

Application ID : 26748889



Created using E - Submission from INEA



Services	the Netherlands	France	Belgium	UK
In vehicle signage	x	x	(x)	X
Probe data	x	x		x
Road works warning	x	x	X	x
GLOSA	x	x	X	x
Multimodal cargo transport optimisation	X (incl tunnel logistics)	x	?	
Truck Parking	X (?)	x	?	
Tunnel surveillance			X	



Activity 1, Project management, Sept 2016- Aug 2019

Leader RWS (assisted by ERTICO)

Activity 1.3: alignment with C-Roads

Activity 2, pilot roll out preparation, Sept 2016-Oct 2018

Leader RWS (TNO)

Activity 2.1a: ITS – G5 service consistency, Sept 2016–Aug 2017.

Activity 2.1b: Hybrid communication, Sept 2016–Aug 2018

Activity 2.1c: PKI specification, Sept 2016–Aug 2018

Activity 2.1d: C-ITS Services, Sept 2016–Aug 2018 .

Activity 3, pilot operation, Sept 2016- august 2019

Leader ERTICO, RWS,MEEM, DfT, MoW

Activity 4 , pilot evaluation, Sept 2016- august 2019

Leader UK (Department of Transport)



No	Milestone description	Indicative completion date	Status
1	Completion of the preparation of Project Management documents and Communication plan	30/11/2016	Submitted 31/08/2017
2	Signature of C-Roads Platform Agreement	31/12/2016	closed
3	Common set of upgraded specifications for ITS-G5	31/08/2017	Submitted 20/10/2017
4	Common set of upgraded specifications for Hybrid communication	31/08/2018	Stable version needed before pilot procurement (Nov 2017), new completion date 30/11/2018 after hybrid TESTFEST
5	Common set of upgraded specifications for PKI	31/08/2018	Stable version needed before pilot procurement (Nov 2017)
6	Common set of upgraded specifications for services	31/08/2018	Stable version needed before pilot procurement (Nov 2017), new completion date 31/03/2019 after services TESTFEST
7	Completion of validation of specifications	15/10/2018	New completion date 31/03/2019 after last TESTFEST
8	Pilot planning finalized	31/08/2017	Submitted 31/08/2017
9	Start of Pilot operation in the four MS	31/05/2018	Not achievable for all MS
10	Publication of Roll out guidelines and best practices of pilot operation	30/11/2018	Should be moved after last pilot has started
11	Pilot operation finalized	31/08/2019	Allows only for short parallel pilot operation!
12	Evaluation framework finalized	31/08/2017	Submitted 31/08/2017
13	Technical evaluation, Impact assessment and User acceptance finalised	31/08/2019	No sufficient inputs from pilot operation available



2.1a: ITS – G5 service consistency

- Final deliverable with RWW, IVS, PVD and GLOSA specifications available since sept 2017
 - RWW, IVS and PVD input pre-discussed with RWS, based on C-ITS Corridor specs. Actively harmonized mainly with France (SCOOP@F). UK and BE reviewed
 - GLOSA input from Talking traffic. Reviewed by FR, UK and BE
- Specifications were tested in testfest July 2017 in Dordrecht (IVS, RWW)
 - GLOSA was postponed to Hybrid testfest in 2018
- Incorporated in C-Roads 1.0 profile, supported by FR, BE, UK and NL
- Further harmonization with other members states and updates of profiles takes place in C-Roads
 - Dutch input and review (through A&I) remains necessary for this as further harmonization result in (suggestions for) adaptations
- C-Roads profile 1.1 planned for Jan 2018. What exactly will be included, and to what level of detail, is not completely clear.

Detailed timelines specifications InterCor (2)

2.1b: Hybrid communication

- Version 1 currently under review.
 - Based on requirements from RWW, IVS and GLOSA
 - Input gathered from multiple stakeholders in NL
 - Deliverable should be final end November 2017
 - Specifications will be tested in Testfest UK (sept 2018). UK, NL and FR will participate, at least (others will be invited)
 - GLOSA will be pre-tested in June 2018 in NL test event. Participation of UK
- Version 2
 - Based on requirements from PVD, MCTO, truck parking, tunnel surveillance and additional observations from RWW, IVS and GLOSA
 - Option to extend to other architectural solution, if based on concrete input from national projects
 - Integrate results of PKI activities, when necessary
 - Specifications should be final draft April 2018
 - review from A&I in April
 - Specifications will be tested in final testfest BE (end 2018 / early 2019), all member states will participate (and more)
- Milestone deliverable “Common set of upgraded specifications for Hybrid communication” available November 2018. Review from A&I in Oktober 2018?



Detailed timelines specifications InterCor (3)

- ETSI specifications (used versions) have been agreed on in September 2017, except one (see slide slide).
- They will be tested in PKI-TestFest, April 2018. Output gap analysis:
 - ETSI TS 102 941 v1.2.1 not yet finalised – Best stable draft TBD this week
 - ECTL of EC will not be up and running in 2018 – InterCor will built project-ECTL (France)
 - Request for new certificates not over G5 communication, satndard is not ready for this, but probably this approach will not be used in NL anyway
 - Test fest will probably be combined with ETSI plugtest voor PKI en security
 - This will have to be investigated (versions, scope, etc..)
- Final PKI Specifications will be tested in Testfest BE (end 2018 / early 2019).
- Alignment in NL on implemented versions is necessary



Standaarden/ versies voor InterCor (Testfest)

Reference	Type	Title	Version	Scope	Origin
ETSI_102723	TS	TS 102 723-8 OSI cross-layer topics; Part 8.	V1.1.1 (2016-04)	This standards specifies interfaces between the ITS security entity and the ITS network and transport layers .It specifies as well related procedures and common parameters.	ETSI
ETSI_102731	TS	TS 102 731: ITS, Security services and architecture	V1.1.1 (2010-09)	This standard specifies mechanisms at the stage 2 level defined by ETSI 300 387 for secure and privacy-preserving communication in ITS environments.	ETSI
ETSI_102893	TR	TR 102 893: ITS Security: (TVRA)	v1.1.1 (2010-03)	The document summarizes the results of a Threat, Vulnerability and Risk Analysis (TVRA) of 5,9 GHz radio communications in an Intelligent Transport System (ITS).	ETSI
ETSI_102940	TS	TS 102 940: ITS Security	v1.2.1 (2016-11)	This standard specifies a security architecture for Intelligent Transport System (ITS) communications. Based upon the security services defined in ETSI TS 102 731.	ETSI
ETSI_102941	TS	TS 102 941: ITS Security: Trust and Privacy Management	v1.1.15	This standard identifies the trust establishment and privacy management required to support security in an ITS environment and the relationships that exist between the entities themselves and the elements of the ITS reference architecture.	ETSI
ETSI_102965	TR	TR 102 965: Application Object Identifier (ITS-AID)	V1.2.1 (2015-06)	This report is in support of a preliminary global registration list for ITS-AID values. It provides an overview of the registration procedure of a new ITS-AID value.	ETSI
ETSI_103097	TS	TS 103 097 : ITS security: security header and certificate formats	v1.2.1 (2015-06)	This standard specifies security header and certificate formats for Intelligent Transport Systems. These formats are defined specifically for securing G5 communication.	ETSI

Detailed timelines specifications InterCor (4)

•2.1D: C-ITS services

- Functional description of use cases, high level technical description, national implementation plans.
- Final (draft) specifications ready in August 2018, draft specifications have to be ready November 2017. Input from other member states is not according to what was agreed.
- Specifications will be tested in Testfest BE (end 2018 / early 2019), NL, FR, UK and BE will participate, others (at least all C-Roads members) will be invited
- Not only interoperability of services will be tested, also PKI and/or Hybrid in combination with these services are being tested

