InterCor Interoperability Test Case

Test Identifier	TC1_1a			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Obstacle on the road".*			
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*			

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Saint-Remi and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information (which?) is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_for* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test Identifier	*T1_1b*	
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*	
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "Alert neutralization of part of a lane".*	
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*	

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Tinqueux and receives a DENM with an eventType set to {3; 0} and an EventHistory filled from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

InterCor Interoperability Test Case				
Test Identifier	*TC1_1c*			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*			
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU CSR and receives a DENM with an actionID {S1; SN1} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

InterCor Interoperability Test Case

Test Identifier	TC1_1d			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "Winter maintenance –Salting in progress".*			
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to an OBU_RO and receives a DENM with an eventType set to {26; 8} and an EventHistory dynamically updated from OBU_RO signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

InterCor Interoperability Test Case

Test Identifier	TC1_1e				
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*				
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*				
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*				
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**		**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Taissy and receives a DENM with an actionID {S2; SN2} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.		This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*		Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area		AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.		We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area		
	6	check	The information still not displayed.		We check manually.
Comments					

InterCor Interoperability Test Case

Test Identifier	TC1_1f
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Human presence on the road".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area 5 km away from RSU Saint-Remi and receives a DENM with an eventType set to {12; 0} from a French vehicle signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

InterCor Interoperability Test Case

Test Identifier	TC1_2a
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Obstacle on the road".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Saint-Remi and receives a DENM with an eventType set to {10; 0} from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC1_2b	
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre.*	
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "Alert neutralization of part of a lane".*	
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*	

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Tinqueux and receives a DENM with an eventType set to {3; 0} and an EventHistory filled from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC1_2c
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU CSR and receives a DENM with an actionID {S1; SN1} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices
Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case

Test Identifier	TC1_2d			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre.*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "Winter maintenance –Salting in progress".*			
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_fre* enters test area close to an OBU_RO and receives a DENM with an eventType set to {26; 8} and an EventHistory dynamically updated from OBU_RO signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

	Test operator information	
Company	*Name of the company*	
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*	
OBU identifier	*Product description/id in case you test with several devices*	
Test date/time	*Exact time when the test was performed. This is important for the log analysis*	
Test log provided	*Yes/No A reason for a No answer would be appreciated*	
Log file name/format	*Name of the log file and file format, if you provide log files*	

InterCor Interoperability Test Case

Test Identifier	TC1_2e
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Taissy and receives a DENM with an actionID {S2; SN2} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

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InterCor Interoperability Test Case

Test Identifier	TC1_2f	
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre.*	
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and the use case "OHLN – Human presence on the road".*	
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*	

Test Sequence	Step	Type	Action: Description / Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area 5 km away from RSU Saint-Remi and receives a DENM with an eventType set to {12; 0} from a French vehicle signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_1a
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN: Obstacle on the road - 10-0) ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the French RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Saint-Remi (exact location, ????) and receives the DENM from this RSU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no RWW)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_1b
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (Alert neutralization of part of a lane : 3-0) ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the French RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description / Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Tinqueux (exact location, ????) and receives the DENM from this RSU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no RWW)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_1c			
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN - extreme weather conditions : 17-1) ahead.* *This test case is dedicated to test a foreign vehicle V_for*			
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*			
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the French RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU CSR (exact location, ????) and receives the DENM from this RSU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	Any information has not to be displayed to the driver at location YY HMI should not show anything (no RWW ahead in ZZZ m)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_1d
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (Winter maintenance – Salting in progress : 26 - 8) ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the French RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description / Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* moves close to the OBU_RO and receives the DENM from this OBU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_for* continues driving	AdHoc URCA tool using V_for pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no Road maintenance)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_for* continues driving	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_1e				
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN - extreme weather conditions : 17-1) ahead.* *This test case is dedicated to test a foreign vehicle V_for*				
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*				
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the French RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*				
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**		**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Taissy (exact location, ????) and receives the DENM from this RSU		This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*		Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_for* drives into the relevance area		AdHoc URCA tool using V_for pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no RWW)		We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area		
	6	check	The HMI continues not to display anything.		We check manually
Comments	*Optional additional information*				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_1f
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN extreme Human presence on the road : 12-0) ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the French RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* moves 5 km far away from RSU Saint Rémi and receives the DENM from a French OBU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_for* continues driving	AdHoc URCA tool using V_for pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no Human Presence)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_for* continues driving	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices
Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case

Test Identifier	TC2_2a
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN: Obstacle on the road - 10-0) ahead.* *This test case is dedicated to test a French vehicle V_fre*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include a Foreign RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre*

Test Sequence	Step	Type	Action: Description / Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Saint-Remi (exact location, ????) and receives the DENM from this RSU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no RWW)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_2b
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (Alert neutralization of part of a lane : 3-0) ahead.* *This test case is dedicated to test a French vehicle V_fre*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the foreign RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Tinqueux (exact location, ????) and receives the DENM from this RSU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no RWW)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_2c
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN - extreme weather conditions : 17-1) ahead.* *This test case is dedicated to test a French vehicle V_fre*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the foreign RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU CSR (exact location, ????) and receives the DENM from this RSU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no RWW ahead)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_2d
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (Winter maintenance – Salting in progress : 26 - 8) ahead.* *This test case is dedicated to test a French vehicle V_fre*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the foreign RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre*

Test Sequence	Step	Type	Action: Description / Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* moves close to the OBU_RO and receives the DENM from this OBU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_fre* continues driving	AdHoc URCA tool using V_fre pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no Road maintenance)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* continues driving	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC2_2e
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN - extreme weather conditions : 17-1) ahead.* *This test case is dedicated to test a French vehicle V_fre*
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the foreign RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre*

Test Sequence	Step	Type	Action: Description / Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Taissy (exact location, ????) and receives the DENM from this RSU	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no RWW)	We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The HMI continues not to display anything.	We check manually
Comments	*Optional additional information*			

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

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InterCor Interoperability Test Case

Test Identifier	TC2_2f				
Test Objective	This test aims to verify that a message received from an ITSS belonging to a foreign domain and signed with a AT trusted by a revoked AA will be discarded. *The received message is a DENM about RWW (OHLN extreme Human presence on the road : 12-0) ahead.* *This test case is dedicated to test a French vehicle V_fre*				
Test Scenario used	*We mix the scenario 2 described in « Testfest scenarios » and the use case RWW.*				
Pre-test Conditions	Common InterCor_CTL is only used for file format. The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. The InterCor_CRL has to include the *foreign* RCA (as a revoked authority). InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre*				
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**		**Observation**
	1	action	Vehicle *V_fre* moves 5 km far away from RSU Saint Rémi and receives the DENM from a French OBU		This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*		Means: pcap files or log files or vendor assessment
	3	action	Vehicle *V_fre* continues driving		AdHoc URCA tool using V_fre pcap files.
	4	check	Any information has not to be displayed to the driver HMI should not show anything (no Human Presence)		We check manually. If the event is displayed properly, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* continues driving		
	6	check	The HMI continues not to display anything.		We check manually
Comments	*Optional additional information*				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case				
Test Identifier	*TC3_1a*			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 3a1*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Saint-Remi and receives a DENM with an eventType set to {10; 0}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*

Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case				
Test Identifier	TC3_1b			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 3a2*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Tinqueux and receives a DENM with an eventType set to {3; 0}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices

Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case				
Test Identifier	TC3_1c			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 3a3*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU CSR and receives a DENM with an eventType set to {17; 1}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test

OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case				
Test Identifier	*TC3_1d*			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 3a4*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to OBU_RO and receives a DENM with an eventType set to {26; 8}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*

Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices
Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case				
Test Identifier	TC3_1e			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 3a5*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Taissy and receives a DENM with an eventType set to {17; 1}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case				
Test Identifier	*TC3_1f*			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 3a6*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* leaves test area close to RSU Saint Remi (5km) and receives a DENM from french obu with an eventType set to {12; 0}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices
Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case

Test Identifier	TC3_2a			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a french vehicle V_for.*			
Test Scenario used	*We mix the scenario 3b1*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Saint-Remi and receives a DENM with an eventType set to {10; 0}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case					
Test Identifier	*TC3_2b*				
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a french vehicle V_for.*				
Test Scenario used	*We mix the scenario 3b2*				
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*				
Test Sequence	Step	Type	Action: Description Check: Expected behaviour		Observation
	1	action	Vehicle *V_for* enters test area close to RSU Tinqueux and receives a DENM with an eventType set to {3; 0}		Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*		Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area		
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.		We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area		
	6	check	The information still not displayed.		We check manually.
Comments					

Test operator information

Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices
Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case				
Test Identifier	TC3_2c			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a french vehicle V_for.*			
Test Scenario used	*We mix the scenario 3b3*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU CSR and receives a DENM with an eventType set to {17; 1}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case				
Test Identifier	*TC3_2d*			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a french vehicle V_for.*			
Test Scenario used	*We mix the scenario 3b4*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to OBU_RO and receives a DENM with an eventType set to {26; 8}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier			*TC3_2e*	
Test Objective			This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a french vehicle V_for.*	
Test Scenario used			*We mix the scenario 3b5*	
Pre-test Conditions			Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*	
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Taissy and receives a DENM with an eventType set to {17; 1}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices
Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case

Test Identifier	TC3_2f			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with a valid AT. The InterCor_CRL is expired *This test case is dedicated to test a french vehicle V_for.*			
Test Scenario used	*We mix the scenario 3b6*			
Pre-test Conditions	Common InterCor_CRL. Is only used for file format. The content of the CRL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCor_CRL preloaded has to be expired InterCor_CRL are preloaded in *vehicle V_for.*			
Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* leaves test area close to RSU Saint Remi (5km) and receives a DENM from french obu with an eventType set to {12; 0}	Event type will be check with AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	
	4	check	DENM should not be displayed on the HMI and should have been discard by security layer.	We check manually. If the event is not displayed, that means that the security scenario is successful. AdHoc URCA tool using V_for pcap files.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

Test Identifier	TC4_1a			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Obstacle on the road".*			
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Saint-Remi and receives a DENM with an eventType set to {10; 0} from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_1b			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a foreign vehicle V_for.*			
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "Alert neutralization of part of a lane".*			
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_for* enters test area close to RSU Tinqueux and receives a DENM with an eventType set to {3; 0} and an EventHistory filled from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_1c
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a foreign vehicle V_for.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU CSR and receives a DENM with an actionID {S1; SN1} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_1d
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a foreign vehicle V_for.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "Winter maintenance –Salting in progress".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*.

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to an OBU_RO and receives a DENM with an eventType set to {26; 8} and an EventHistory dynamically updated from OBU_RO signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_1e
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a foreign vehicle V_for.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for*.

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Taissy and receives a DENM with an actionID {S2; SN2} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

	Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_1f
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a foreign vehicle V_for.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Human presence on the road".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_for.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area 5 km away from RSU Saint-Remi and receives a DENM with an eventType set to {12; 0} from a French vehicle signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_for pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using V_for pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_for* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_2a
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Obstacle on the road".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Saint-Remi and receives a DENM with an eventType set to {10; 0} from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	Name of the company
Test operator	Name(s) and e-mail address(es) of the person that performed the test
OBU identifier	Product description/id in case you test with several devices
Test date/time	Exact time when the test was performed. This is important for the log analysis
Test log provided	Yes/No A reason for a No answer would be appreciated
Log file name/format	Name of the log file and file format, if you provide log files

InterCor Interoperability Test Case

Test Identifier	TC4_2b
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "Alert neutralization of part of a lane".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Tinqueux and receives a DENM with an eventType set to {3; 0} and an EventHistory filled from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_2c
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description / Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU CSR and receives a DENM with an actionID {S1; SN1} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_2d
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "Winter maintenance –Salting in progress".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to an OBU_RO and receives a DENM with an eventType set to {26; 8} and an EventHistory dynamically updated from OBU_RO signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_2e			
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a French vehicle V_fre.*			
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Extreme weather conditions".*			
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*			
Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_fre* enters test area close to RSU Taissy and receives a DENM with an actionID {S2; SN2} and an eventType set to {17; 1} relevant on the whole A4 from RSU signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC4_2f
Test Objective	This test aims to verify the vehicle behaviour on reception of a signed message from a foreign ITSS and signed with an AT issued by a non-trusted foreign RCA. *This test case is dedicated to test a French vehicle V_fre.*
Test Scenario used	*We mix the scenario 4 described in « Testfest scenarios » and the use case "OHLN – Human presence on the road".*
Pre-test Conditions	Common InterCor_CTL. Is only used for file format. The content of the CTL of each vehicle is signed with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. PKI which is not in the InterCor_CTL. InterCor_CRL and the InterCor_CTL are preloaded in *vehicle V_fre.*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area 5 km away from RSU Saint-Remi and receives a DENM with an eventType set to {12; 0} from a French vehicle signed with PKI which is not in the InterCor_CTL.	This check will be done if the display of step 4 is not properly done. AdHoc URCA tool using V_fre pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means: pcap files or log files or vendor assessment.
	3	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using V_fre pcap files.
	4	check	DENM should not be printed to the HMI.	We check manually. If the event is not displayed, that means that the security scenario is successful.
	5	action	Vehicle *V_fre* leaves the relevance area	
	6	check	The information still not displayed.	We check manually.
Comments				

Test operator information

Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC5_1a
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 5 described in « Testfest scenarios » and new updated InterCor_CTL.*
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Saint-Remi and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information « OHLN : Obstacle on the road : 10-0 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_for* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*

OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor

InterCor Interoperability Test Case

Test Identifier	TC5_1b
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Tinqueux and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information « Alert neutralization of part of a lane : 3-0 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_for* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*

OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC5_1c			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*			
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_for*			

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU CSR and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information « OHLN extreme weather conditions : 17-1 » is diplayed to the driver on the A4 (relevance distance on the whole of A4 Highway) HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_for* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*

Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC5_1d
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to an mobile UeVg and received informations	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information « Winter maintenance – Salting in progress : 26-8 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_for* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*

OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC5_1e
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a foreign vehicle V_for*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* enters test area close to RSU Taissy and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information « OHLN : extreme weather conditions : 17-1 » is diplayed to the driver on the A4 (relevance distance on the whole of A4 Highway) HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_for* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*

Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC5_1f
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated for V2V communications.*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_for*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_for* keep driving on the A4 Highway, 5km far away from RSU Saint Rémi. French Vehicle sends a DENM with « OHLN extreme Human presence on the road : 12-0 »	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information « OHLN extreme Human presence on the road : 12-0 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_for* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*

OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	*TC5_2a*			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*			
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. 3 options : - Messages from SANEF RSU are signed by foreign PKI. - Use foreign RSU - Use foreign vehicle as RSU. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_fre*			

Test Sequence	**Step**	**Type**	**Action: Description** **Check: Expected behaviour**	**Observation**
	1	action	Vehicle *V_fre* enters test area close to RSU Saint-Remi and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_For pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.
	8	check	Information « OHLN : Obstacle on the road : 10-0 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_fre* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

Test Identifier	TC5_2b				
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre*				
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*				
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. 3 options : - Messages from SANEF RSU are signed by foreign PKI. - Use foreign RSU - Use foreign vehicle as RSU. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_fre*				

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation	
	1	action	Vehicle *V_fre* enters test area close to RSU Tinqueux and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_*fre* pcap files.	
	2	Check	The reception of the message by the OBU of Vehicle *V_for*	Means : pcap files or log files or vendor assesment	
	7	action	Vehicle *V_for* drives into the relevance area	AdHoc URCA tool using Veh_For pcap files.	
	8	check	Information « Alert neutralization of part of a lane : 3-0 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.	
	9	action	Vehicle *V_for* leaves the relevance area		
	10	check	The information is not displayed anymore.	We check manually	
Comments					

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

Test Identifier	TC5_2c
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. 3 options : - Messages from SANEF RSU are signed by foreign PKI. - Use foreign RSU - Use foreign vehicle as RSU. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_fre*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU CSR and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_*fre* pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using Veh_*fre* pcap files.
	8	check	Information « OHLN extreme weather conditions : 17-1 » is diplayed to the driver on the A4 (relevance distance on the whole of A4 Highway) HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_fre* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually

Comments	

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	*TC5_2d*
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre*
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. 3 options : - Messages from SANEF RSU are signed by foreign PKI. - Use foreign RSU - Use foreign vehicle as RSU. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_fre*

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to an mobile UeVg and received informations	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_*fre* pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using Veh_*fre* pcap files.
	8	check	Information « Winter maintenance – Salting in progress : 26-8 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_fre* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

Test Identifier	TC5_2e			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*			
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. 3 options : - Messages from SANEF RSU are signed by foreign PKI. - Use foreign RSU - Use foreign vehicle as RSU. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_fre*			

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* enters test area close to RSU Taissy and receives information from RSU	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_*fre* pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using Veh_*fre* pcap files.
	8	check	Information « OHLN : extreme weather conditions : 17-1 » is diplayed to the driver on the A4 (relevance distance on the whole of A4 Highway) HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_fre* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually

Comments	

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*

InterCor Interoperability Test Case

Test Identifier	TC5_2f			
Test Objective	This test aims to verify the authenticity of a message received from an ITSS belonging to a foreign trust domain and signed with a valid AT. *The received message is a DENM about RWW ahead.* *This test case is dedicated to test a French vehicle V_fre*			
Test Scenario used	*We mix the scenario 1 described in « Testfest scenarios » and new updated InterCor_CTL.*			
Pre-test Conditions	Updated InterCor_CTL with scenario 4. Is only used for file format The content of the CTL of each vehicle is **signed** with its home RCA (the content is the same). They are preloaded in each vehicle. It should contain all RCAs. 3 options : - Messages from SANEF RSU are signed by foreign PKI. - Use foreign RSU - Use foreign vehicle as RSU. InterCorCRL and the InterCor_CTL are preloaded in *vehicle V_fre*			

Test Sequence	Step	Type	Action: Description Check: Expected behaviour	Observation
	1	action	Vehicle *V_fre* keep driving on the A4 Highway, 5km far away from RSU Saint Rémi. French Vehicle sends a DENM with « OHLN extreme Human presence on the road : 12-0 »	This check will be done if the display of step 8 is not properly done. AdHoc URCA tool using Veh_*fre* pcap files.
	2	Check	The reception of the message by the OBU of Vehicle *V_fre*	Means : pcap files or log files or vendor assesment
	7	action	Vehicle *V_fre* drives into the relevance area	AdHoc URCA tool using Veh_*fre* pcap files.
	8	check	Information « OHLN extreme Human presence on the road : 12-0 » is diplayed to the driver at location YY HMI should show something like RWW ahead in ZZZ m	We check manually. If the event is displayed propely, that means that the security scenario is successful.
	9	action	Vehicle *V_fre* leaves the relevance area	
	10	check	The information is not displayed anymore.	We check manually
Comments				

Test operator information	
Company	*Name of the company*
Test operator	*Name(s) and e-mail address(es) of the person that performed the test*
OBU identifier	*Product description/id in case you test with several devices*
Test date/time	*Exact time when the test was performed. This is important for the log analysis*
Test log provided	*Yes/No A reason for a No answer would be appreciated*
Log file name/format	*Name of the log file and file format, if you provide log files*