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# **Deliverable D2.2**

# Requirements for the Run-time Control for Safe Adaptation and Supporting Hardware Platforms

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# **Executive Summary**

This document summarises the SafeAdapt requirements. It also provides a brief summary on the reconfiguration's structural set-up, which will be integrated into the RACE platform. Such reconfiguration mechanisms and algorithms will form a central part of the SafeAdapt Platform Core, which encapsulates the basic adaptation mechanism for re-allocating and updating functionalities in the networked, automotive control systems. This will be the basis for an interoperable and standardised solution for adaptation and fault handling in AUTOSAR. The SafeAdapt approach also considers functional safety with respect to the ISO 26262.

The requirements address the necessary developments targeted in SafeAdapt in order to achieve the SafeAdapt Platform Core goals.



#### 1 About this document

This document contains the requirements for the SafeAdapt project with respect to the run-time control for the safe adaptation and supporting hardware platforms.

It has been decided to select a requirements capture process allowing to use the IBM Rational DOORS (short within the following: DOORS) software for processing requirements supported by a professional tool. Since not all project partners have access to this tool, it was agreed to use a special Microsoft EXCEL template which can directly be read by the DOORS software as an input file.

DOORS<sup>1</sup> is a requirements management application for optimizing requirements communication, collaboration and verification.

The DOORS software for requirements processing supports:

- 1. Requirements Management in a centralised location for better team collaboration
- 2. Traceability by linking requirements to design items test plans and test cases and other requirements
- 3. Scalability to address the changing requirements management needs
- 4. Test tracking toolkit for manual test environments to link requirements to test cases
- 5. Integrations to help manage changes to requirements with either a predefined change proposal system or a more thorough customizable change control workflow

This document consists of two parts:

- a) This word file with general comments and explanations on the process followed and the design goals targeted
- b) The DOORS compliant EXCEL requirements sheet with the collected requirements for this part of the SafeAdapt Project

Concerning the EXCEL requirements sheet we followed the following approach:

The requirements were collected per Partner. This can be traced by the Requirement ID provided by each individual requirement. The numbering system used the following syntax:

Company short (i.e. TTTech: "TTT") – 3 digit number XXX: <Company short name-XXX>

thus resulting in an identifier for a requirement for example like: "*TTT-001*" (first requirement by TTTech).

<sup>&</sup>lt;sup>1</sup> See https://www.google.at/#q=DOORS+Requirements



The Excel sheet then identifies the following data per requirement:

- Column A: Requirement Identifier
- Column B: Category (functional/non-functional, could be extended if needed)
- Column C: Sub Category (Efficiency/Hardware/Process/Software/System/Tools)
- Column D: Short Description
- Column E: Description
- Column F: Verification Method
- Column G: Rationale
- Column H: Dependencies
- Column I: Conflicts
- Column J: Date (of issue)
- Column K: Supporting material
- Column L: Object Status (changed/new/, could be extended if needed)
- Column M: Object Version
- Column N: Review



## 2 Major design goals these requirements refer to

#### 2.1 The demonstration set-up

It has been agreed to connect the Trusted Multi Domain Platform (TMDP) by Delphi with the Robust and reliable Automotive Computing Environment (RACE) Platform by Siemens by means of a TTEthernet<sup>2</sup> switched backbone network. The set-up is intended to be used to demonstrate the development of reconfiguration capabilities for a system running safety-relevant applications or functions. In case of a safety-relevant function failing is detected, the related SafeAdapt mechanisms target to recreate the function at least in a gracefully degraded version on different ECU of the system. Namely, this intends to first recognize the failure of the safety-relevant function and to autonomously initiate the reconfiguration process. As a next step the system will identify the appropriate "gracefully degraded" version of the function and will define another ECU in the system capable of hosting the degraded function. Either it is already allocated to this ECU or it will load the gracefully degraded function software to this ECU from a repository (i.e. stored on the TTE SCB) and autonomously initialize and start the function. By connecting actuators and sensors via the backbone to the new ECU by means of a switch, the newly configured system is capable of acting in place of the initial system configuration, running the full blown version of the failed function, even during run-time of the system. The system will also take care of disconnecting and switching off the failed function.

A block diagram of the intended system is depicted in Figure 1.

<sup>&</sup>lt;sup>2</sup> SAE Standard SAE AS6802





Figure 1: Block Diagram of connecting the TMDP Platform with the RACE Platform

#### 2.2 Short description about involved platforms

#### 2.2.1 TMDP

Delphi's Trusted Multi Domain Platform (TMDP) is a prototyping platform to support different types of safety critical applications up to the ASIL level D (for ASIL levels, see Section 2.3.4). The general setup is shown in Figure 2.

The platform has a modular architecture consisting of main parts which are always on the platform PCB and some pluggable add-On boards.

All automotive relevant networks are supported (CAN, Flexray and LIN) and additionally a very flexible solution for the Ethernet connection. The main processing unit is the Infineon Aurix. The Aurix is a triple core processor with a maximum clocking of 300MHz each. One of the cores is running in HW lockstep mode the other two are standard.

The mainboard, including the power-supply concept, is designed to be ASIL D compliant.





Figure 2: Hardware setup of the TMDP

The platform can be enhanced by three different types of add-on boards. One essential board, that is also mandatory for SafeAdapt, is the communication board. This board is connected to the main PCB via standardized PMC connectors. This gives us the possibility to directly plug a TTTech rugged Ethernet switch onto the mainboard. Different solutions are also possible as long as they are compliant to the PMC standard (IEEE 1386).

To increase the processing power it is possible to plug in an additional performance microcontroller board that is following the VCM2.0 specification of NVIDIA. The connector itself is a MXM 3.0 connector. The performance microcontroller can communicate to the Aurix via HSSL (ZipWire) or an Ethernet connection via the communication board.

In case those digital and/or analogue IOs are needed, the user has the option to plug an IO-board to the mainboard. On the IO-board you can place all the necessary parts to drive the peripherals.

#### 2.2.2 RACE

The RACE platform has been developed within the German national research project "RACE – Robust and reliable Automotive Computing Environment for future eCars", funded by the German ministry of economics and technology. The main goal of the project was to develop a uniform and open E/E platform for electrical cars, in particular for safety-critical functions up to ASIL D (like steer by wire). The approach is intended to be "revolutionary" in the sense that it completely neglects the historically grown approach taken by the automotive industry and fully "re-thinks" the way to build up the electric- and electronic (E/E) vehicle architecture.







Figure 3 provides an overview about the RACE system architecture. The main idea is to implement a clear layering with well-defined interfaces in order to decouple sensors/actuators, the computation and communication platform and the SW functions from each other. This is the basis for "Plug&Play", i.e. the capability to add new components (sensors, actors, computing nodes) but also new SW based functions in a flexible and modular way. The main architectural concepts of RACE are:

- *Smart sensors and actors*, which provide local intelligence to execute open-loop and closed-loop control tasks. Examples are a wheel hub motor detecting the maximum torque by itself or a video camera generating an object list. Legacy sensors and actors (e.g. with a CAN interface) can be connected to the RACE system by *gateways*.
- A suitable *communication structure*, which is physically based on 2-wire automotive Ethernet. In order to facilitate the implementation of highly safety-critical functions additional mechanisms like "Time Sensitive Networking" (TSN) and a redundant ring structure are employed, such that no single point failure will lead to loss of function. The goal is to support both, time-critical and reliable communication (e.g. for a steer-by-wire function) as well as non-critical best-effort traffic (e.g. for multimedia applications) on one network.
- A centralized computing platform, which is composed of one or more DCCs (Duplex Control Computers). Each DCC consists of two CPUs, executing the same computations. By periodically comparing the results of these computations, sporadic failures can be detected. In such a case the DCC will be deactivated (i.e. stopped or restarted), while another DCC can take over the functions of the deactivated DCC. By deploying the same function on multiple DCC in a hot-standby manner, the required availability/safety level can be achieved.



- A *runtime environment (RTE)* which provides a virtual connection to all sensors and actors by means of a vehicle data model. The RTE provides basic mechanisms for failure detection and handling as well as for dynamic system configuration ("Plug&Play").
- Applications ("Apps") which are implemented on top of an API for accessing the vehicle data model. These apps do not have to take care of all aspects handled by the RTE, such as failure handling, communication or physical sensors. That way, automotive applications can be implemented pure software packages without the need to take care of car specific aspects like physical sensors, networking structure etc.

The RACE vehicle has been developed within RACE as a demonstrator car. It features innovative components like a wheel-hub motor, an electrical braking system and a full steer-by-wire system. All components and functions of the car are implemented with the RACE architecture. In particular, it is intended to demonstrate the safety features of the RACE platform. Additional demonstrator applications, such as autonomous parking and energy management, have been also implemented within this car in order to highlight the potential of the proposed approach.

#### 2.2.3 TTEthernet backbone platform

TTEthernet (Deterministic Ethernet) is an SAE standardized<sup>3</sup> data communication technology supporting to transmit data according to standard Ethernet best effort traffic (BE), rate constraint (RC) data traffic and time-triggered Ethernet (TT) traffic in parallel (see Figure 4).



Figure 4: TTEthernet Traffic Classes supported

**Time-Triggered Ethernet** traffic dispatches messages according to a predefined communication schedule.

Rate-Constraint Ethernet traffic enforces minimum duration between two frames of the same stream.

**Best-Effort Ethernet** traffic is equal to standard Ethernet traffic and does not provide any temporal guarantees.

TTEthernet is a scalable, open real-time Ethernet platform targeted for the use within safety-related applications primarily in transportation industries and industrial automation. TTEthernet provides flexibility, modularity, scalability in Ethernet based systems. It is compatible to IEEE 802.3 Ethernet and integrates transparently with Ethernet network components.

TTEthernet has been designed for use in high safety and high reliability applications, cyberphysical systems and unified networks. TTEthernet simplifies the design of fault-tolerant and high availability solutions.

<sup>&</sup>lt;sup>3</sup> SAE Standard SAE AS6802



Detailed information is available on the TTTech homepage. The specification can be requested on the TTTech home page as well<sup>4</sup>.

#### 2.3 Major requirement areas

#### 2.3.1 Reconfiguration

The approach selected in SafeAdapt w.r.t. reconfiguration deviates significantly from the investigations and developments made in the FP7 project DREAMS<sup>5</sup>. Actually the SafeAdapt approach complements the investigations of DREAMS.

In DREAMS the concept follows a similar approach like in aerospace used today. It uses a function already resident in another ECU. This function is already operational and activated by switching to this function in case of a faulty ECU or the operational function is failing. In such case a switch over is performed. The failure is detected automatically and triggers action to perform a switch based reconfiguration using redundant hardware and preconfigured additional (back-up) functions. The approach does not work in case the other ECU is suffering from failure as well. In the SafeAdapt approach such failure can be handled even without extra hardware redundancy required.

In SafeAdapt we target to detect a failure of a safety-relevant function in the vehicle system automatically and upon such detection decide on initiating a reconfiguration action.

The reconfiguration can be split up to reactivation and reallocation. Reallocation describes the process of installing SW on an ECU. Reactivation describes the process of assigning computing and timing resources to an installed application. This means, an activated application will be executed.

In order to provide safe hardware redundancy, the system checks automatically which of the other control units executes the least required applications that are signed to tolerate a passivation. It then endeavours to clear the running functions from the new target control system and loads the gracefully degraded version of the failed function to the selected control unit<sup>6</sup>. Afterwards it connects the sensors and actuators to that unit via the available switches in the network and initializes and starts the unit to run the gracefully degraded version of the failed function. It also takes care of the failed function and closes it. Thus the only extra service required is suitable space on a dedicated ECU to store the degraded versions of target safety relevant functions. This approach supports to decide on a case by case basis which other control unit in the overall system would be capable to activate the gracefully degraded version of the failed safety-related function. It does not require extra redundant systems to be able to cover the full safety related requirements including tolerating the failure of a safety related function at minimum gracefully degraded function level. Instead it will be required that an ICT system with its applications can be reconfigured. Therefore, less important automotive functions/applications will be stopped, resources will be freed and (degraded) functionality reactivated. The overall process of reconfiguration shall be completed in so short time, that the operation is not influenced significantly.

<sup>&</sup>lt;sup>4</sup> <u>https://www.tttech.com/technologies/ttethernet/</u>.

<sup>&</sup>lt;sup>5</sup> http://www.dreams-project.eu/

<sup>&</sup>lt;sup>6</sup> In case the function is significantly small in related code it might also be considered to load the full function. In a second step it might also be possible to replace a gracefully degraded version after the gracefully degraded version has taken the role to provide at least a minimum required service at the shortest interruption possible (i.e. a few milliseconds).



The project intends to find out how long it would take from failing of a safety related function to a completed reconfigured function being restored and being fully operational with the new configuration by using the set-up described. This time span is called fault-recovery time which must be less than the given fault-tolerant time interval (according to IOS26262) of the considered application.

It shall also be taken into consideration how much the maximum size of a gracefully degraded version of such function may be, in order to meet deadlines overall of a few milliseconds only.

This shall lead to the insight if 100Mbit/s data rate can be sufficient or if the next order of magnitude is required. It shall provide knowledge on the influence of different parameters in the duration of the entire reconfiguration process. One of the results expected would be to define the parameters really decisive for the fault-recovery time (i.e. maximum amount of code to be transferred to a new ECU as "gracefully degraded version", data rate, amount of ECUs in the pool to use instead of the failing ECU, etc.).

#### 2.3.2 System Verification and Evaluation

The main idea of SafeAdapt is to develop novel architecture concepts based on adaptation to address the needs of a new E/E architecture for FEVs regarding safety, reliability and cost efficiency. In order to judge a research project whether it is successful, the following elements as the cost, energy efficiency, reducing material (the weight), State of the Art should be taken into the evaluation process and if possible some of the final results can be demonstrated to the public.

In order to evaluate a system or a function or a use case effectively some specific requirements with review to the verification and evaluation should be made at the early stage of the design process and added into the run time core requirement list.

#### 2.3.3 Universal SW component

General requirements towards the safe adaptation platform core (SAPC) are aiming at a universal SW component that shall run on all platforms that are taking part in the reconfiguration process. Therefore the SAPC shall behave like a standard AUTOSAR SW component and shall only support the standard RTE interfaces.

A simple form of the SW architecture is shown in Figure 5.





Figure 5: General SW Architecture similar to AUTOSAR

A complementary complex driver (CDD) below the RTE will serve the interfaces of the SAPC and acts as a wrapper towards the used operating system (in case of Delphi it will be the real-time OS PXROS-HR<sup>7</sup>). The complex driver for sure will be unique for all the different platforms in an adaptive system.

To make the SAPC work properly some essential data about the system's health status needs to be exchanged. For that reason, a System Health Vector has been designed. This vector contains, generally speaking, the information about the current status of each application that can be reconfigured during the adaptation process and some more information about the different platform operating states.

During the adaptation process it needs to be ensured that all SAPCs on the different platforms will come to the same result how the reconfigured system will look like. Therefore a database is implemented that contains all the necessary information about the applications, the restrictions for adaptation, the needed processing power and memory space. The database will be updated among the platforms in case that one platform got an additional SW-component installed.

<sup>&</sup>lt;sup>7</sup> https://www.hightec-rt.com/en/downloads/pxros-hr.html



In case of Delphi's TMDP the reconfiguration process can also take place on the platform itself. Applications might be deactivated in one memory partition and then be restarted in a different memory area, or assigned processing core can be changed.

To make sure that not an unnecessary adaptation process is started, the system shall also support a rudimentary power mode management via network. The different states of the platforms need to be published in the system, and in case of sleep and wake-up organized.

Delphi is planning to introduce an ACC application in the project and therefore need to have access to front radar data. This can be either done by Delphi's own RACAM or by the Siemens radar in the front of the vehicle. Nevertheless, the radar input shall be received via the Ethernet connection to the TTTech switches and gateways. The ACC application shall be part of the number of reconfigurable applications.

For detailed information about the requirements and constraints, please have a look into the provided Excel sheet.

#### 2.3.4 Safety

Safety is one of the most relevant issues for the SafeAdapt project. "ISO 26262 Road vehicles – Functional safety" is the standard that will lead the safety requirements for reconfiguration in SafeAdapt.

ISO 26262 provides an automotive-specific risk-based approach to determine integrity levels (Automotive Safety Integrity Levels – ASIL) of the functions to be installed in a vehicle. These ASIL levels (D, C, B, A, QM) are the basis for prioritization of the rules of the SafeAdapt Core reconfiguration.

Less critical functions (QM, A or B) will be the ones to be passivized in order to maintain the most critical ones (D and C) active. The adaptation will take into account the concept of *dependant functions*; that is, the properly functioning of some of them can depend on the well-functioning of others, so some constraints regarding this point can be applied when activating or passivating functions.

A hazard analysis has been initially done to identify the different ASIL levels of the functions. Moreover, a hazard analysis of the reconfiguration process itself is being done. This will help to identify specific safety goals for the reconfiguration process.

Fault tolerance will be achieved by means of defining an internal or external safety mechanism in order to control or mitigate failure modes, such as hot standby in case of SW safety mechanism.

Most of the safety requirements will be applied when the vehicle is running. Anyhow, installation of new components or update of functions will be taken into account. The SAPC should be properly configured and initiated on all platforms after one of these operations has been performed, just to ensure that the vehicle is ready for a safe reconfiguration process if needed.

#### 2.3.5 Energy Efficiency

In conventional vehicles the energy is a scarce resource. In FEVs, the energy consumption becomes critical, as it is also needed for the vehicle powertrain. The SafeAdapt Platform Core is designed to be used in FEVs and therefore energy efficiency needs to be considered.



The concept of safe adaptation helps to make FEVs more energy efficient. Safe adaptation allows using redundancy mechanisms other than additional hardware. By reducing the number of ECUs, the weight of the vehicle is reduced, and thus, the energy consumption of the powertrain.

SAPC rules will take safety classification of the functions as the most relevant criteria to perform reconfiguration. Anyway, once safety issues have been considered, energy efficiency optimisation criteria can be also used in a second step to decide on how to perform reconfiguration. For example, keeping a required hot standby online will always precede switching it off for saving the energy. But if multiple configurations are available, the SAPC should consider using the configuration that is most energy efficient according to its data available. Furthermore, energy efficiency must be considered in case energy levels can produce a future foreseen safety relevant situation (as in UC\_511\_01).

The SAPC should be designed so it can also be used to support the smart use of CPU resources available. For example, safe adaptation can facilitate disabling not needed functions and enables other system optimisations during runtime (e.g. joint resource usage) to save additional energy.

The mechanisms used to trigger and calculate the optimisation of energy efficiency should be designed to reuse the available capabilities of the SAPC as much as possible.



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## List of Abbreviations

Dynamic Object-Oriented Requirements System
Society of Automotive Engineers
Safe Adaptation Platform Core
Safe Adaptive Software for Fully Electric Vehicles
Time-Triggered Ethernet (SAE standard SAE AS6802)
Trusted Multi Domain Platform
Robust and reliable Automotive Computing Environment
Electronic Control Unit



#### Annex

The annex of this document consists of the EXCEL file hosting the requirements captured in the EXCEL format compliant to DOORS input file in order to allow using DOORS if required. The file name of the DOORS compliant requirements sheets, which form part of this document, is:

SafeAdapt\_D2-2\_Requirements.xlsx

Requirement ID:	Category	Sub Category	Short Description:	Description: -Res. Description:	Verification Method	Rationale:	Dependencies: Conflicts:	Date:	Supporting Material:	Object Status:	Object Version	Review:
DEL-001	Non-Functional	System	Network Topology - Double star architecture - Sensors/Actuators [1]	All sensors and actuators that are not related to a fail operational application (x-by-wire) shall be connected to at least one of the nateways that analytic the interfarion with the				16.04.2014		New	1	
				TTEthemet network unless otherwise specified. The distribution (which sensor/actuator is connected to which asteway) need to be defined according to the mounting locations.								
DEL-002	Non-Functional	System	Network Topology - Double star architecture - Sensors/Actuators [2]	All sensors and actuators that are related to a fail operational application (x-by-wire)				16.04.2014		New	1	l
				shall be connected to different gateways that enable the interfacing with the TTEthernet network. The distribution (which sensor/actuator is connected to which gateway) need								
DEL-003	Non-Functional	System	Network Topology - Double star architecture - Gateways [1]	to be defined to fulfil the necessary redundancy. The network shall have at least two gateways for the sensors/actuators. The gateways shall existing the interfacience with the TTEReport entered.				16.04.2014		New	1	
DEL-004	Non-Functional	System	Network Topology - Double star architecture - Gateways [2]	Each gateway in the network shall be connected to each available TTEthernet switch in the network to surrout and under communication lands.				16.04.2014		New	1	
DEL-005	Non-Functional	System	Network Topology - Double star architecture - Switches	The network shall have at least two TTEthemet switches which shall be connected to each ECU.				16.04.2014		New	1	
DEL-006	Non-Functional	System	Network Topology - Double star architecture - ECUs	The network shall at least contain two ECUs (RACE from Siemens and TMDP from Delphi) that are hosting the applications.				16.04.2014		New		
DEL-007	Non-Functional	System	Network Topology - Double star architecture - Common requirements	The network structure shall be flexible enough to support additional ECUs, switches and gateways to be scalable for future extensions.		0.0		16.04.2014		New		
DEC-008	Non-Puncional	Hardware	Pacian interace - Galaxiesying to Trememor	The memory of Depth's reacting cover, the mossingle will be send out in a Coverdus (see the following requirements for further information). At least one of the gateways shall be canable to resteway these messages in the TTPEthernet naturals.		recen module specification.		10.04.2014		reew		
DEL-009	Non-Functional	Software	RaCam Interface - Specification of Radar CAN messages	The radar completes the processing of the target data with a cycle time of 50 msec +/- 5 msec. At the completion of this processing, the radar shall transmit all its CAN		ReCem module specification.		16.04.2014		New	1	
				messages in one group. The instrumentation buffers shall not overflow as a result of these sequential CAN messages. The specing between the messages in the group								
251.010	No. Developed	0.0	And an and a static design of the second state	should be minimized. The specing between the groups of messages should be 50 mse +/-5 msec.								
DEL-010	Non-Puncional	Somere	racam insenace - opeonication of CAN bons missisglis [1]	1 x Diatus Message 2 (4EUI) 1 x Status Message 2 (4E1h) 1 x Status Message 3 (4F2h)		recen module specification.		10.04.2014		reew		
DEL-011	Non-Functional	Software	RaCam Interface - Specification of CAN burst messages [2]	1 x Status Message 4 (4E3h) 1 x Track Message 1 (500h)		ReCem module specification.		16.04.2014		New	1	l
				 1 x Track Message 64 (53Fh)								
DEL-012	Non-Functional	Software	RaCam Interface - Specification of CAN burst messages [3]	1 x Motion Power Message (540h) with CAN_TX_TRACK_CAN_ID_GROUP = 0		NaCam module specification.		16.04.2014		New	1	
DEL-013	Non-Functional	Software	ReCam Interface - Specification of CAN burst messages [4]	(time multiplexed) 1 x Validation Message 1 (5D0h) (only if Validation message transmission is enabled		RaCam module specification.		16.04.2014		New	4	l
				during development) 1 x Validation Message 2 (5D1h) (only if Validation message transmission is enabled								
DEL-014	Non-Functional	Software	RaCam Interface - Specification of CAN burst messages [5]	during development) 1 x Status Message 5 (5E4h) 1 Control (5E2h)		RaCam module specification.		16.04.2014		New	1	<u> </u>
				1 x Diatus Message 5 (5EDH) 1 x Diatus Message 5 (5EDH) 1 x Diatus Message 5 (5E7h)								
DEL-015	Non-Functional	Software	ReCem Interface - Specification of CAN burst messages (6)	1 x Status Message 5 (5E8h) The FLS shall transmit these CAN messages in the following order. It is important that		RaCam module specification.		16.04.2014		New	4	l
				the Track 64 data is sent last because this will trigger the beginning of the Instrumentation's processing.								
251.010	No. Frankrad		Designation of TTT-shows and show of TUDD	Start 4E0h-4E1h-4E2h-4E3h-500h53Ph-540h(msg 1 to 10)-5E4h-5E5h-5E6h-5E7h- 5E8h-End								
DEL-017	Non-Functional	Hardware	Cruise control switches	The vehicle shall have switches installed that support commanding the ACC functionalit The following watches shall be installed:		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New		
				- Cancel Switch - Set Switch								
DEL-018	Non-Functional	Hardware	CrsCntrfSwStCanSwAct sensor value for ACC application	The network shall supply the sensor status of the "Cruise Control Switch Status : Cancel Switch Active" coded in the signal CrsCntrlSwStCanSwAct. The switch can be		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-019	Non-Functional	Hardware	CrsCntrlSwStSetSwAct sensor value for ACC application	active or in-active (1 bit). The network shall supply the sensor status of the "Cruise Control Switch Status : Set Switch Artue" onder in the simal CrsContReStRetSwalet. The switch can be active or		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-020	Non-Functional	System	BPDAPS_BkPDrvApP sensor value for ACC application	in-active (1 Bit). The network shall supply the sensor status of the "Brake Pedal Driver Applied Pressure		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	4	l
				Status : Brake Pedal Driver Applied Pressure" coded in the signal BPDAPS_BkPDrvApP. The signal shall be coded in 8 Bits.		· · · · · ·						
DEL-021	Non-Functional	System	BrkSysAutBrkFld system status value for ACC application	The network shall supply the system status of the "Brake System Automatic Braking Failed" coded in the signal BrkSysAutBrkFid. The signal shall be coded in 1 Bit.		Requirement for Dalphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-022	Non-Functional	System	BrkPdIPos sensor value for ACC application	The network shall supply the sensor status of the "Brake Pedal Position" coded in the signal BrkPdPos. The signal shall be coded in 8 Bits.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New		
DEL-023	Non-Functional	System	BrkPedTrvAchvd sensor value for ACC application	The network shall supply the sensor status of the "Brake Pedal Initial Travel Achieved Status : Brake Pedal Initial Travel Achieved" coded in the signal BrkPedTr4Achvd. The		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New		
DEL-024	Non-Functional	System	BrkPdIDrvAppPrsDetcd sensor value for ACC application	signal shall be coded in 1 Bit. The network shall supply the sensor status of the "Brake Pedal Driver Applied Pressure		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-025	Non-Functional	System	AccPdIDvrdAtv sensor value for ACC application	Detected coded in the signal privide wappensively. The signal shall be coded in 1 Bit. The network shall supply the sensor status of the "Accelerator Pedal Override Active"		Requirement for Delbhi's ACC/AEB software component.		16.04.2014		New	1	
DEL-026	Non-Functional	System	VehSpdAvgDrvn system status value for ACC application	coded in the signal AccPdIOvrtdAtv. The signal shall be coded in 1 Bit. The network shall supply the system status of the "Vehicle Speed Average Driven"		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New		l
DEL-027	Non-Functional	System	VehOdo sensor value for ACC application	coded in the signal VehSpdAvgDrvn. The signal shall be coded in 15 Bits. The network shall supply the sensor status of the "Vehicle Odometer" coded in the		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	t
DEL-028	Non-Functional	System	VehMovState system status value for ACC application	signal VehOdo. The signal shall be coded in 32 Bis. The network shall supply the system status of the "Vehicle Movement State" coded in the vehicle Movement State" coded in		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-029	Non-Functional	System	ActVehAccel sensor value for ACC application	The network shall supply the sensor status of the "Actual Vehicle Acceleration" coded in the signal ActiveAccel. The signal shall be coded in 12 Bits.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New		
DEL-030	Non-Functional	System	EngTrqActExtRng system status value for ACC application	The network shall supply the system status of the "Engine Torque Actual Extended Range" coded in the signal EngTraActExtRng. The signal shall be coded in 12 Bits.		Requirement for Dalphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-031	Non-Functional	System	EngTrqDrRqdExtRng system status value for ACC application	The network shall supply the system status of the "Engine Torque Driver Requested		Requirement for Dalphi's ACC/AEB software component.		16.04.2014		New	1	
DEL 432	Non-Functional	Russom	EnnTreMaxEvRon system status value for LCC antification	Extended Nange" coded in the signal EnglingUttigdExtRing. The signal shall be coded in 12 Bits. The national shall summer the system status of the "Engine Tomus Maximum Extended".	0	Requirement for Dalphi's &CC/AFB software commonent		16.04.2014		New	1	
		,		Range" coded in the signal EngTrqMaxExtRng. The signal shall be coded in 12 Bits.								
DEL-033	Non-Functional	System	EngRunAtv system status value for ACC application	The network shall supply the system status of the "Engine Run Active" coded in the signal EngRunAty. The signal shall be coded in 1 Bit.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New		
DEL-034	Non-Functional	System	EngSpd system status value for ACC application	The network shall supply the system status of the "Engine Speed" coded in the signal EngSpd. The signal shall be coded in 16 Bits.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	-	
DEL-036	Non-Functional	System Rustom	Drvintndkal Irg system status value for ACC application	The network shall supply the system status of the 'Driver interded Axe Torque' coded in the signal DrivintindAvITrg. The signal shall be coded in 15 Bits. The network shall sumh the system status of the 'Driver intersted Axe Torque'		Negurement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
		,		Maximum" coded in the signal DrvintndAxiTrqMax. The signal shall be coded in 15 Bits.								
DEL-037	Non-Functional	System	DrvintndAxtTrqMin system status value for ACC application	The network shall supply the system status of the "Driver Intended Axle Torque Minimum" coded in the signal DrvIntndAxITrgMin. The signal shall be coded in 15 Bits.		Requirement for Debhi's ACC/AEB software component.		16.04.2014		New	1	
DEL-038	Non-Functional	System	PT_BrkPedDscrttrpStat sensor value for ACC application	The network shall supply the sensor status of the "Powertrain Brake Pedal Discrete		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-039	Non-Functional	System	PrkBrkSwAtv sensor value for ACC application	Bit. The network shall supply the sensor status of the "Park Brake Switch Active" rootest in		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	l
DEL-040	Non-Functional	System	StrWhAng sensor value for ACC application	the signal PrkBrkSwAtv. The signal shall be coded in 1 Bit. The network shall supply the sensor status of the "Steering Wheel Angle" coded in the		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New		l
DEL-041	Non-Functional	System	StrWhAngGrd sensor value for ACC application	signal StrWhAng. The signal shall be coded in 16 Bits. The network shall supply the sensor status of the "Steering Wheel Angle Gradient"		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	1
DEL-042	Non-Functional	System	StrWhIAngSenCalStat sensor value for ACC application	coded in the signal StWMAngGrd. The signal shall be coded in 12 Bits. The network shall supply the service status of the "Steering Wheel Angle Sensor		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-043	Non-Functional	System	ACCBrinnAct system status value for ACC application	continuous sense coded in the signal StrWinAngsenCatStat. The signal shall be coded in 2 bits. The relevant shall supply the system status of the "Adaptive Cruise Cruise Pression.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	l
				Active" coded in the signal ACCB/kngAct. The signal shall be coded in 1 Bit.								
DEL-044	Non-Functional	System	AdptCrsGapSwAct system status value for ACC application	The network shall supply the system status of the "Adaptive Cruise Control Gap Switch Activation" coded in the signal AdptCrsGapSwAct. The signal shall be coded in 2 Bits.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-046	Non-Functional	System	SysPwrMd system status value for ACC application	The network shall supply the system status of the "System Power Mode" coded in the signal SysPerMd. The signal shall be coded in 2 Bits.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-046	Non-Functional	System	AutoBrkngAct system status value for ACC application	The network shall supply the system status of the "Automatic Braking Active" coded in the signal AutoBrkingAct. The signal shall be coded in 1 Bit.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-047	Non-Functional	System	ABAAPS_AccPos system status value for ACC application	The network shall supply the system status of the "Autonomous Braking Accelerator Actual Position Status: Accelerator Position" coded in the signal ABAAPS_AccPos. The		Requirement for Debhi's ACC/AEB software component.		16.04.2014		New	1	
DEL-048	Non-Functional	System	RdLdNomAxITrq system status value for ACC application	signar shall be coded in 8 Bits. The network shall supply the system status of the "Road Load Nominal Axle Torqua" coded in the signed Ref without Autor. The control is the super state of the "		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-049	Non-Functional	System	BrkSysAutBrkStat system status value for ACC application	The network shall supply the system status of the "Brake System Automatic Braking Status" coded in the signal BrikSysAuBrikStat. The signal shall be coded in 2 Bits.		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	
DEL-050	Non-Functional	System	IMULatAccPrim sensor value for ACC application	The network shall supply the sensor status of the "Inertial Measurement Unit Lateral		Requirement for Delphi's ACC/AEB software component.		16.04.2014		New	1	<u> </u>
				Acceleration Primary* coded in the signal IMULatAccPrim. The signal shall be coded in 10 Bits.								

| DEL-061  
   
   | Non-Functional  
   | System  | IMULonAccPri sensor value for ACC application   | The network shall supply the sensor status of the "Inertial Measurement Unit<br>Longitudinal Acceleration Primary" coded in the signal IMULonAcoPri. The signal shall  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
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DEL-052			
   
   | Non-Functional  
   | System  | IMURoIICntSec sensor value for ACC application  | be coded in 12 Bits.<br>The network shall supply the sensor status of the "Inertial Measurement Unit Rolling<br>Course Research" ontoin is the classed MILIRARCHIDE The classical shall be coded in 2  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-063  
   
   | Non-Eurotional  
   | Sustem  | IM MawRtPri center value for ACC emilination  | Court Secondary coded in the signal helpfolic/ridec. The signal shall be doed in 2<br>Bits.<br>The national shall sumbly the conservations of the "namial Magemaniant Link Your Rate   | Reminament for Dathilis ACC/AER software commonant   
  | 16.04.2014  | Naw 1  |  |   |  
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   |   
   | -,  |   | Primary" coded in the signal IMUYawRIPri. The signal shall be coded in 13 Bits.  | | |
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| DEL-054  
   
   | Functional  
   | System  | Output of ACC application signal ACCAct370  | The output of the ACC application shall contain the signal ACCAct370. The signal's long<br>name is "Adaptive Cruise Control Active" and shall be coded in 1 Bit.   | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-055  
   
   | Functional  
   | System  | Driver information [1]  | The content of the signal ACCArtS70 shall be displayed to the driver in a way that<br>needs to be defined; (to be discussed with SIE)  | Requirement for Dalphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-056  
   
   | Functional  
   | Software  | Output of ACC application signal ACCATC_AviTrqRq  | The output of the ACC application shall contain the signal ACCATC_ArtTrqRq. The<br>signal's long name is "Adaptive Cruise Control Ade Torque Command : Ade Torque<br>Descendential the societade ID Tore   | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-057  
   
   | Functional  
   | Software  | Output of ACC application signal FOAL AirtWmIndRq   | The output of the ACC application shall contain the signal FOAL AirtWinindRq. The<br>contained is base and is "Secure Others Meet Independence". Alter Miteriale Independence  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-058  
   
   | Functional  
   | Software  | Output of ACC application signal FOAL VehAhdIndRo   | Request <sup>2</sup> and shift user to find to Copies one indicated as role of an indicated and the copies of the copies of the ACC applications shall contain the signal FOAI VehAhdindRo. The  | Requirement for Delohi's ACC/AEB software corroonent.  
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
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   |   
   |   |   | signal's long name is "Forward Object Alert Indications : Vehicle Alread Indication<br>Request" and shall be coded in 4 Bits.  | | |
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| DEL-059  
   
   | Functional  
   | Software  | Output of ACC application signal FOAL AinChmithDRq  | The output of the ACC application shall contain the signal FOAL_AIntChrnihbRq. The<br>signal's long name is "Forward Object Alert Indications : Alert Warning Chime Inhibit  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-060  
   
   | Functional  
   | Software  | Output of ACC application signal ACCDrvrSeltdSpd_kph  | Necusia' and shall be cooked in 1 bit.<br>The output of the ACC application shall contain the signal ACCDr/rSebidSpd_kph. The<br>contain the same is "Material to Color Operating Dataset States of kept" and shall  | Requirement for Dalphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-061  
   
   | Functional  
   | Software  | Driver information [2]  | lagna s ong nama a wagone Unaa Contro Univer seasche opera in ken and shaat<br>be coded in 12 Bis.<br>The content of the signal ACCDrv/SeltdSod koh shall be diselayed to the driver in a  | Requirement for Delphi's ACC/AEB software correctionent.   
  | 16.04.2014  | Néw 1  |  |   |  
  |  |   |  |   |  |
| DEL-062  
   
   | Functional  
   | Software  | Output of ACC application signal ACCDnrSeltdSpdIO   | way that needs to be defined. (to be discussed with SIE)<br>The output of the ACC application shall contain the signal ACCDrv/SeltdSpdIO. The  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
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   |   
   |   |   | signal's long name is "Adaptive Cruise Control Driver Selected Speed Indication On" an<br>shall be coded in 1 Bit.   | | |
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  |  |   |  |   |  |
| DEL-063  
   
   | Functional  
   | Software  | Output of ACC application signal ACCUnavibleDTWhrtO   | The output of the ACC application shall contain the signal ACCUnaubiaDTWhrIO. The<br>signal's long name is "Adoptive Cruise Unavailable Due To Weather Indication On" and<br>shall be order in 1 Bit   | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-064  
   
   | Functional  
   | Software  | Driver information [3]  | The content of the signal ACCUInavbleDTWthrIO shall be displayed to the driver in a<br>way that needs to be defined. In the discussed with SIE!  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-065  
   
   | Functional  
   | Software  | Output of ACC application signal DrvThrtiOvrdIO   | The output of the ACC application shall contain the signal DivThrItOvrdIO. The signal's<br>long name is "Driver Throttle Override Indication On" and shall be coded in 1 Bit.  | Requirement for Dalphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-066  
   
   | Functional  
   | Software  | Output of ACC application signal ACCHdwayStrgIO   | The output of the ACC application shall contain the signal ACCHdwayStrgIO. The   | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| 051.007  
   
   | E contract  
   | 0.5   | 0.00001100.0000000000000000000000000000   | signal's long name is "Adaptive Cruise Control Headway Setting Indication On" and shall<br>be coded in 1 Bit.  | Duration of the Database 100/16D with one service of   
  | 0.01.0011   |  |  |   |  
  |  |   |  |   |  |
| DEDGO  
   
   |   
   | COMMENT   | ouput of NoC application agrin NoC importantion of  | signal's long name is "Adaptive Cruise Control Temporarily Unavailable Indication On"<br>and that ill condition 1 State Control Temporarily Unavailable Indication On"   | responsible to be prevented and the component.   
  | 10.04.2014  | 1988   |  |   |  
  |  |   |  |   |  |
| DEL-068  
   
   | Functional  
   | Software  | Driver information [4]  | The context of the signal ACCTmpUnavRel4O shall be displayed to the driver in a way<br>that needs to be defined. (to be discussed with SIE)  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-069  
   
   | Functional  
   | Software  | Output of ACC application signal ACCSnsCinRodIO   | The output of the ACC application shall contain the signal ACCEnsClinRqdO. The<br>signal's long name is "Adaptive Cruise Control Sensor Cleaning Required Indication On  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-070  
   
   | Functional  
   | Software  | Driver information [5]  | and shall be coded in 1 Bit.<br>The contant of the signal ACCBroClinRogIO shall be displayed to the driver in a way  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-071  
   
   | Functional  
   | Software  | Output of ACC application signal ServAdpCrsCtrlindOn  | The needs to be certed, to be detected with bery<br>The output of the ACC application shall contain the signal ServAdpCrsCatIndOn. The<br>signal's known area is "Service distribution Critic Control Indication Christian C   | Requirement for Delphi's ACC/AEB software component.  | 16.04.2014   
  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-072  
   
   | Functional  
   | Software  | Driver information (8)  | in 1 Bit.  | Requirement for Delphi's ACC/AEB software corroonent.  
  | 16.04.2014  | Néw 1  |  |   |  
  |  |   |  |   |  |
| DEL-073  
   
   | Functional  
   | Software  | Output of ACC application signal FrtRdrBickdIO  | that needs to be defined. (to be discussed with SIE)<br>The output of the ACC application shall contain the signal FriRdrBickelO. The signal's   | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
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   |   
   |   |   | long name is "Front Radar Blocked Indication On" and shall be coded in 1 Bit.  | | |
  |   |  |  |   |  
  |  |   |  |   |  |
| DEL-074  
   
   | Functional  
   | Software  | Output of ACC approation signal VADIR_HwDst   | The output of the ACC application shall contain the signal VADIR_HINZE. The signars<br>long name is "Vehicle Ahead Distance Indication Request : Following Distance" and shu he code la te 80.   | Nequirement for Dephr's ACC/AEB software component.  
  | 16.04.2014  | Netw 1   |  |   |  
  |  |   |  |   |  |
| DEL-075  
   
   | Functional  
   | Software  | Driver information [7]  | The content of bit.<br>The content of the signal VADIR_FNDst shall be displayed to the driver in a way that<br>needs to the driftered. In the driversed with SIFI  | Requirement for Delphi's ACC/AEB software component.   
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-076  
   
   | Functional  
   | Software  | Graceful degradation for steer-by-wine  | In case of an application or HW error on the platform that is originally executing the<br>steer-by-wire (SBW) functionality, a degraded SBW function shall be deployed on  | | |
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
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   |   
   |   |   | another operative ECU in the system. The TMDP shall be able to execute the degraded<br>SBW function.   | | |
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  |  |   |  |   |  |
| DEL-077  
   
   | Functional  
   | Software  | Graneful devradation for steer, huwire - Force feerback   | A described store by usin (ODM) function shall not support force for dhack   | | |
  | 16.04.2014  | Notes: 4   |  |   |  
  |  |   |  |   |  |
| DEL-078  
   
   | Functional  
   | Software  | Graceful degradation for steer-by-wine - Steering dynamics  | A degraded steer-by-wire (SBW) function shall not support speed dependent power  | | |
  | 16.04.2014  | New 1  |  |   |  
  |  |   |  |   |  |
| DEL-078<br>DEL-079   
   
   | Functional  
   | Software<br>Software  | Oracentul degradation for stear-by-wire - Stearing dynamics<br>Health vector - content description  | A degrade take dye was (2004) function shaft not support factor and degraded degraded at power<br>added staked of several (2004) function shaft not support quad degraded to power<br>added staked (2004) function shaft not support quad degraded to form the several state of the several state of the<br>A health vector will be used for exchanging adaptation-degradent information between<br>parforma   | | |
  | 16.04.2014<br>30.07.2014  | Hear 1<br>Danged 2   |  |   |  
  |  |   |  |   |  |
| DEL-079<br>DEL-079<br>DEL-080  
   
   | Functional<br>Functional<br>Non-Functional  
   | Software<br>Software<br>Hardware  | Grazeful degradation for steer-by-wire - Steering dynamics<br>Health vector - content description<br>Steer-by-wire sensor integration into notwork.   | A subjects transfer years (1997) (Uniting and inter subjects regard subjects prover<br>and subjects manual states of the exchanging subjects and subjects prover<br>subfers as used to exchanging subjects and subjects in the subject of t   | Neccessary to allow detection of evering that plausible senter values.  | 16.04.2014<br>30.07.2014<br>16.04.2014  
   | New 1 Darged 2 New 1   |  |   |   
   |  |   |  |   |  |
| DEL-079<br>DEL-080   
   
   | Functional<br>Functional<br>Non-Functional  
   | Software<br>Software<br>Hardware  | Graceful degradation for steer-by-weire - Steering dynamics<br>Health vector - content discorption<br>Steer-by-weire sensor integration into network.   | A subject of earlier of the set o   | Necessary to allow detection of energy but plauable sensor values.  | 10.04.2014<br>30.07.2014<br>16.04.2014  
   | Ner 1<br>Shaged 2<br>Ner 1   |  |   |   
   |  |   |  |   |  |
| DEL-078<br>DEL-079<br>DEL-080<br>DEL-081   
   
   | Functional<br>Functional<br>Non-Functional<br>Functional  
   | Software<br>Hardware<br>Software  | Operated adoptations for same-to-periors - Statering dynamics<br>Mailth vector - content discolption<br>State-by-wire sensor integration into network<br>Voting on ECU lavel - in case of triples sensor layout   | A subject to the set of years (2001) housing used and non-papert galantity departition of papert<br>and set and setting.<br>A subject was also used for activating adjustation-departedent information between<br>adjustments<br>The same by even settings and adjustation-departedent information between<br>The same by even settings and adjustation-departedent information between<br>the setting adjustation of the adjustation of the availability of<br>the setting adjustation of the adjustation of the adjustation of the adjustation of<br>the setting adjustation of the adjustation of the adjustation of the adjustation of<br>the method of the adjustation of the adjustation of the adjustation of the adjustation of<br>the method of the adjust for the adjustation of the adjusta                                   | Neccessary to allow detection of enough polyleadable sensor values.   | 18.04.2014<br>30.07.2014<br>16.04.2014<br>18.04.2014   
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   | Functional<br>Functional<br>Functional<br>Functional  
   | Software<br>Software<br>Hardware<br>Software<br>Software  | Onzelet departation for trans-tylenic Stearing dynamics<br>Headh weber - content disconferion<br>Stars-by with samor's Hinggriden in the memory<br>Valleg on ECU level - In case of triples andres types<br>Transgo an ECU level - In case of triples andres types  | A subject instead y-basis [100] hostical and into appoint quarket appointed appointed processing of the subject   | Neccessory to allow detection of energy but placeble service values.  Controlled values and make much service i an adaptive system.  Controlled values place not make much service i an adaptive system.  | 16,04,2014<br>30,07,2014<br>16,04,2014<br>16,04,2014<br>16,04,2014<br>16,04,2014  
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   | Functional Functional Functional Functional Functional Functional Functional Functional   
   | Software<br>Software<br>Hardware<br>Software<br>Software<br>Software  | Small Application for some given - Security givenities<br>Health web: - constant absorption<br>Statuth years some relayation into nativesk<br>Years given EQU Werk - Instant of Tigher samon Taylou<br>Yearg (ECC) Werk - Instant of Tigher samon Taylou<br>SNOFT regulaments to ACC [1]  | A subjust rate of years (1900) hostics with off or subject quarks diposition prover<br>and a duration,<br>and a duration,<br>and a duration,<br>particular and a duration of the subject of the subject of the duration is between<br>particular and a duration of the subject of the duration of the subject of the duration of the<br>times to support ordery on the region. The duration particle subject of the duration of the<br>times to support ordery on the region. The duration particle subject of the duration of the<br>times to support ordery on the region. The duration of the duration of the<br>times to support ordery on the region. The duration of the duration of the<br>times to support ordery on the region. The duration of the duration of the<br>times to support ordery on the support. The duration of the<br>time construction to the subject of the duration of the duration of the<br>time construction of the subject of the duration of the duration of the<br>time construction of the subject of the duration of t                           | Necessary to allow districtor of enough but plausable sensor volues.  Centralized volter glass not make much sense in an adaptive system.  Centralized volting dates not make much sense in an adaptive system.   | 16.04.2014<br>30.07.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014   
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   | Software<br>Software<br>Hardware<br>Software<br>Software<br>Software<br>Software<br>Software  | Small Agalation for stand years - Standy generates     Health vector - context description     Stand-by white sensor integration rise network     Voring on ECU Iowel - is case of tiplate actuator legent     Voring on ECU Iowel - is case of tiplate actuator legent     Voring OPT regularments for ACC [1]     VORTP regularments for ACC [2]  | A subject to the set of the set o   | Accessary to allow detection of energy but plauable sensor values.      Contralised voting does not make much sense in an adaptive system.      Contralised voting does not make much sense in an adaptive system.  | 16.64.2014<br>30.07.2014<br>18.04.2014<br>18.04.2014<br>18.04.2014<br>16.04.2014<br>16.04.2014  
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   | Functional  
  | Sotheare<br>Sotheare<br>Hardware<br>Sotheare<br>Sotheare<br>Sotheare<br>Sotheare<br>Sotheare  | Shakiki Application for samo ly-anni - Shakima ghaninaa<br>Haadii waxoo maarar abaciyagaa<br>Shakim yaxoo aanaar ahayaa aanaa ahayaa<br>Malagi aa CCU laan ah aa aa ah fisjaa aanaan layaa<br>Malagi aa CCU laan ah aa aa ah fisjaa aanaan layaa<br>GACPF magaalaanaa laa ACC (2)<br>OACOPF nagaalaanaa laa ACC (2)   | A subject result by the SIGN function ball of the subject quark of public sectors and the subject of the subject results of the subject r   | Neccessory to allow detection of annung but placeble service values.  Controlland valling dates not make much service in an adaptive system.  Controlland valling dates not make much service in an adaptive system.  | 16.64.2014<br>26.07.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014   
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   | Functional   | Software<br>Software<br>Hantware<br>Software<br>Software<br>Software<br>Software<br>Software<br>Software<br>Software   
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  | Small Application for same system: Strange systems     Health Health - Health - Health Health - Health Health - Healthh - Health - He | A subplication by several (1900) focusion data discovery of several subplications your<br>subplications and several subplications and several subplica   | Accountary to allow detection of evening that plausable sensor values.      Accountary to allow detection of evening that plausable sensor values.      Centralization often make much sense in an adaptive system.      Centralization often make much sense in an adaptive system.      Centralization often make much sense in an adaptive system.      Centralization often make much sense in an adaptive system.      Centralization often make much sense in an adaptive system.      Centralization often make much sense in an adaptive system.      Centralization often make much sense in an adaptive system.      Centralization often make much sense in an adaptive system.      Centralization often much sense in an adaptive system.      To another much sense in adaptive system.      To another much sense in adaptive system.      To another much sense in adaptive system.      To adaptive system | 16.4.2014<br>2.07.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014<br>16.4.2014   | Star     1       Oranget     2       Oranget     2       Star     2   |  |  
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  | Small Application for same years. Straining spectrum     Head water: - consult absorption     Small water: - consult absorption     Small by early a second of the schedule     Small by early absorption     Consult     Consul | A subject to an end of the subject sector of the subject sector subject to an end of the subject sector sector subject sector subject sector subject sector sector sector subject sector s   | Aucressary to allow advector of energy but placeble server volues.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not make much serves in an adaptive system.  Centralized volting deas not much serves in an adaptive system.  Centralized volting deas not much serves in an adaptive system.  Centralized volting deas not much serves in adaptive system.  Centralized volting deas not m  | 16.6.2014<br>26.07.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014   | Nume     I       Sharped     I       Sharped     I       Nave     I  |   
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  | Small Application for same years: Serving spectrum     Keart water - cover absorption     Keart - Keart - Keart - Keart - Keart     Keart - Keart - Keart - Keart - Keart     Keart - Keart - Keart - Keart - Keart     Keart - Keart - Keart - Keart - Keart - Keart     Keart - Keart  | A subject rate of years (1900) housine and and no subject quest all questioned prover<br>and a duration,<br>and a duration,<br>and a duration,<br>and a duration,<br>and a duration,<br>and a duration, and a duration of the subject of the duration is been<br>particles. In the subject of the subject of the duration of the subject of the duration<br>is the subject of the subject of the duration of the subject of the duration of the<br>duration of the subject of the duration of the duration of the duration of the<br>duration of the subject of the duration of the duration of the duration of the<br>duration of the duration of the duration of the duration of the<br>duration of the duration of the duration of the duration of the<br>duration of the duration of the duration of the duration of the<br>duration of the duration of the duration of the duration of the<br>duration of the duration of the duration of the duration of the<br>duration of the duration of the duration of the duration of the duration of the<br>duration of the duration of the duration of the duration of the duration of the<br>duration of the duration |   | 16.64.2014<br>20.07.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014<br>16.04.2014  | Ner P P P P P P P P P P P P P P P P P P P  |   
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Seeining spectrum     Keart water - cover also region     Keart water water - cover | A subject in the system (BSN) function ball, one subject least 4 specialized prover<br>defa details,<br>and an analysis of the subject of the subject least 4 specialized prover<br>particles. The subject is a subject of the subject is a subject to the subject of the subject is<br>the subject of the subject is a subject of the subject is a subject in the subject of the subject is<br>the subject of the subject is a subject of the subject is a subject is a subject is a subject is<br>the subject of the subject is a subject of the subject is a subject is a subject is a subject is<br>the subject of the subject is a subject is<br>the subject is a subject is<br>the subject is a subject is<br>the subject is a subje                                   | Auccessary to allow absorber of among but plausable sensor volues.  Controllated volaring dates not make much sense in an adaptive system.  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DEL-109	Functional	Software	Safe Adaptation Runtime Core [3] - Diagnostics	The detection of a safety relevant error shall lead to a non self-healing error entry in the diagnostic application and only degraded functionality shall be made available. The use	This is to avaied that intermittent errors highly safety critical functions can be "cured" by just doing an ignition cycle.	30.07.20	4	New	1	
071.440	Countrast.		Out-Advances Durates Over (1), THDD and increased whether the test of C	shell be asked to have a maintenance (-> driver information).		10 MT 00				
DEC-110	Functional	Solorare	Sale Adaptation Rultime Cole (4) - TMDP requirement learning to learure PS	vorsi case orecultori time for each application shall be known to the sale adaptation runtime core.	important to check if the activation of additional functions are writin the time-budget.	30.07.20	•	reew		
DEL-111	Functional	Software	Safe Adaptation Runtime Core [5] - Handling of hot-standby applications	Hot standby applications shall have a flag to signal the safe adaptation runtime core tha only a passivation in case of an error is allowed. To avoid multiple application execution	An error in a highly safety critical application that needs to be covered by a hot-standby application to fulfill timing requirements shall lead to it's passivation on the CCC. The	30.07.20	4	New	1	
				in different CCCs it shall not be allowed to reactivate a hot standby application on the	standby application shall only be run on a different CCC.					
CEA-001	Functional	Tools	Safe-Adaptation Core (SAC) has to be able to evaluate adaptation information	Tauty CCC. Model provides various information about SW system so for instance the information By assuring that the information in model is respected.		CEA-005, CEA-006 01.09.20	4 D4.1 (intermediate versi	ns New	1	
			generated by modeling tools	about which component is connected with which component and the resource			need to be provided)			
				information (model at run-time) needs to be accessable in order to be able to make						
CEA-002	Functional	Software	SAC must be to instantiate, dispose and reconnect components	In order to make adaptation, SAC must instantiate, dispose and/or reconnect CEA-004		01.09.20	4	New	1	
				components. Depending on the criticality of the components, instantiation and disposal micht correspond to activation and deactivation of pre-allocated components. In this						
				sense. SAC must be capable of doing these tasks.				11		
CEA-003	Functional	Software	Execution of adaptation scenarios must be possible	In particular, we must be able to inject events (via take sensor data) that trigger by running scenarios, We use CEA-004 to examine that adaptation is actually execute adaptations and we can have subsequent related requirements that says that we must	a	CEA-004 01.09.20	•	New	1	
CEA 004	Encotine	Potence:	Observation of summer SM conferentian must be needlike	be able to verify adaptation scenarios. Descention of exercise SW applications (component allocations: autionics around and the preside assession and alternation alternation data)	We want to be able to well, whether the adaptations are executed as absend or not	CEA 002		More	4	
020004		Jonese	Coal resolt of carteri on congenerat mus de passoe	must be possible (at least in simulations).	те чак ю на вые о чену внага за выракога не ехессио на рагно о пос		•		•	
CEA-005	Functional	Software	We must be able to execute state-machines	SAC must be able to execute state-machines that describe system modes. By running adaptation scenarios based on state-machines, i.e. we run a scenario and typically expect it to change its state.	We want to be able to model system modes. System modes are modeled in forms of state-machines, and we want to assure that these models are respected. Note that it	01.09.20	4	New	1	
					needs to be discussed if we really want to model system modes due to the possible					
TEC-001	Non-Functional	System	Reconfiguration of Failed Cruise Control(Cold-Standby)	Overall time response for safety-critical functionality should be less than 50ms (fault	contract an expectational	20.08.20	4	New	1	
				defaction: 10ms; pasavation: 10ms). In defail, fault-recovery takes less than:						
				- Store for safety-critical functionality with required fail-operational behaviour. 1000 mm (numrimodile) with remained fail-pacetae behaviour with research to the						
				ISO28282 related requirements and required recovery to increase operational						
TEC-002	Non-Functional	System	Reconfiguration of Failed Cruise Control(Cold-Standby)	aviaucitity. CSCC should register hardware partitions status		20.08.20	4	New	1	
TEC-003	Non-Functional	System	Reconfiguration of Failed Cruise Control(Cold-Standby)	When HW partitions are available in the current CSCC duplex control computer, item functions (SW part) should be reconfigured using empty reaconfigured partitions.		20.08.20	4	New	1	
100.004	No. Constant		Concernation and the COLLEGA COROLEGA and							
TEC-004-01	Non-Functional	System	Steer-By-Wire Adaptation after ECU-Failure (CSCC-Failover)	The CCC supports fault-tolerance for applications that areacouted. This fault-tolerance		20.00.4				
	1	1	1	includes the possibility of having hot standby applications. The switchover-criteria as a performance-level of the considered appliciations. The performance-level can represent						
770.007	No. Constant		Advantion when Develope Million Mathematics, (Developing Constitution)	graceful degradation.						
			Company and a second	10ms), see TEC-001		20.08.20			-	
1EC-005-01	Non-Functional	System	Adaptation atter Break-by-Wire Malfunction (Dependable Function)	The priority-based support for tauti-tereance can also consider additional constraints basides safety (such as data-transport delays) to select 1ooN reconfiguration						
TEC-006	Non-Eurotional	Rustom	Adaptation after Reads. In: Web Malfunction (Proceedable Economics)	possibilities. CRCC shruid rankear hardware natilities status see TFC-003			4	New		
TEC-007	Non-Functional	System	Adaptation after Break-by-Wire Malfunction (Dependable Function)	CSCC should register applications with its priorities and interdependencies		20.08.20 20.08.20	4	New	i	
	1	1	1	IN GGC companies can configure the promes of approatence based on a given set of rules. Furthermore, interdepanencies in between applications can be defined. Those						
	1	1	1	interdependencies can be used to determine degradation-levels of applications.						
TEC-008	Non-Functional	System	Adaptation after Break-by-Wire Malfunction (Dependable Function)	Minimising of applications passivation and reconfiguration should be accomplished		20.08.20	4	New	1	
TEC-009	Non-Functional	System	Adaptation after Break-by-Wire Matunction (Dependable Function)	Overall time response should be less than 50ms (laut detection: 10ms; passivation: 10ms), see TEC-001		20.08.20	4	New	1	
TEC-010 TEC-011	Non-Functional Non-Eurotional	System System	Adaptation after Break-by-Wire Malfunction (Dependable Function) Adaptation after Break-by-Wire Malfunction (Dependable Function)	CSCC should register hardware partitions status, see TEC-006. CSCC devial series and status with its minitias and interferendencies as TEC.		20.08.20	4	New	1	
	-	-		007.						
160-012	Non-Functional	System	Adaptation after Break-by-Wite manufaction (Dependation Ponction)	TEC-008.		20.08.20	•	New		
TEC-013	Non-Functional	System	Communication Failure with External Aggregate (Hot-Standby)	Overall time response should be less than 50ms (lault detection: 10ms; pessivation: 10ms), see TEC-001.						
TEC-013-01	Non-Functional	System	Communication Failure with External Aggregate (Hot-Standby)	The fault-tolerance supports graceful degradation (and thus follows the strategie to support the best excelled a professional to the driver state is some of increasionant.						
				(alures).						
TEC-014	Non-Functional	System	Communication Failure with External Aggregate (Hot-Standby) Communication Failure with External Aggregate (Hot-Standby)	USCU should manage mastering-standoy index of approaches, see TEC-01. When having hot-standby configuration, item functions (SW part) can be reconfigured b						
				performing a switch from a CSCC hosting a master instance to CSCC hosting a hot- standby instance, see TEC-001.						
TEC-016	Non-Functional	Software	Installation of New Component	An application on the central ICT computing core CCC, which has the clearance to implement new software, has to fare common security remainments (authentication		20.08.20	4	New	1	
				integrity,) to avoid installations, e.g., of illegal / harmful software or software that is						
TEC.017	Non-Eurotional	Software	Installation of New Commonant	Installed by third parties to without the awareness of the owner. The safe anionation one SAPC is remark configured and initiated on all nations						
				(RACE, TMDP) after installing new components						
				will be initiated by maintenance personnel ensures the proper operation of the CCC with						
TEC-018	Non-Functional	Software	Update of Function (Update)	regard to a given set of functional and non-functional requirements. Application on the central ICT computing core CCC which has the clearance to install		20.08.20	4	New	1	
				new software.						
				such approximitin has to have common security requirements (administration, megny, ) to avoid installations of illegal or harmful software, or software that is installed by						
TEC-019	Non-Functional	Software	Update of Function (Update)	third parties to without the awareness of the owner, see TEC-016. The sele adaptation core SAPC is properly configured and initiated on all platforms		20.08.20	4	New	1	
750 040 04	No. Fundant	0	Hodaw of Provider (Hodaw)	(RACE, TMDP) after installing new components, see TEC-017.						
150-019-01	Non-Functional	Someane	opdate or Penceon (opdate)	aggregate (sensor-actuator-unit) to the ICT system.						
TEC-020	Non-Functional	System	Degradation of Steer-By-Wire Application (Internal)	Overall time response should be less than 50ms (lault detection: 10ms; pessivation: 10ms), see TEC-001.		20.08.20	4	New	1	
TEC-021 TEC-022	Non-Functional Non-Eurotional	System System	Degradation of Steen-By-Wire Application (Internal) Degradation of Steen-By-Wire Application (Internal)	CSCC should register hardware partition status, see TEC-003. If a denerated mode function is appliable and hardware partitions are available, when an		20.08.20	4	Naw		
			a second s	item function SW failure is detected the function should be activated in a degraded						
1	1	1	1	mode manage or saming emotion The CCC shall support graceful degradation on application and on CSCC-level. Graceful						
TEC-023	Non-Functional	System	Adaptation for Range Extension (Energy Efficience)	degradation can be represented using a scalar value. CBCC should register energy efficiency level for all applications		01.02.02	4	New	1	
			() () () () () () () () () () () () () (	The CCC supports energy consumption optimisation with regard to given constraints		20.08.20				
TEC-024	Non-Functional	System	Adaptation for Range Extension (Energy Efficiency)	If several lam functions (SW part) have the same priority, they should be reconfigured		20.08.20	4	New	1	1
TEC-025	Non-Functional	System	Adaptation for Range Extension (Energy Efficiency)	according to energy efficiency optimisation criteria. If several Item functions (SW part) have the same ASIL, they should be reconfigured		20.08.20	4	New	1	
	1		· · · · · · · · · · · · · · · · · · ·	according to energy efficiency optimisation criteria.						
DUR-001	Functional	System	Minimum Computing power requirements (CSCC); compatabilities and the	Need to have some overspec (i.e. 50%) to cover the foreseen circumstances and have extra cost in Safeadapt Plaform core configuration in comparison of another state of	To prove the saving of the material cost and thus the weight as well.			1	1	
	L		extendativityies of the Switches and Gateways	wide compatibilities with the current network and data communication standards. the art approachings: cost versus functionalities						
DUR-002	Non-Functional	System	Use Case reliability evualation	Registration of the frequency of the passivation (adaptation) of a use case. with failure injection to show the frequency the adaptation	To prove the detection rate and to prove the enhancement of reliability of the use case by using the saferlant cose; for maintenance number to know the failure rate					
DUR-003	Non-Functional	Process	Adaptation paths	Visualisation of adaptation path at final prototype demonstration. by visualisation with LEDs	Show the adaptation visually at demonstration.					
DUR-005	Non-Functional	System	Maintenace mode: failure analysis	To view a list of history of errors. Check with the frequent users of the EV	May have a good reference to check the reliability of the component.					
TTT-001	Functional	System	TTEthernet back-bone architecture	The set-up to interconnect the TMDP and teh RACE platforms shall be TTEthernet. analysis	Ethernet interfaces are easy and cheap to implement. Standard Ethernet trafic may be difficult to relay on in highly safety-relevant applications where delays and jitter must be	20.10.20	4	New		
	1	1	1		known. Deterministic behaviour is also considdered of value in the reconfiguration process the back-bone architecture shall be ranable of TTFthanear unless all floors.					
***	Constant.	0	Parali kana data samanalatin	The back on the community of the data and and Phone at and American States	features.				-	
111-002	Functional	System	Back-bone data communication	The backbone data communication shall allow standard ethemet and deterministic, analysis Time-Triggered Etherenet data traffic.	Using standard Ethemet interfaces is teasible and in case of highly safety-related traffic needed for control or reconfiguration functions, determinism and hard real time features	20.10.20	•	New		
TTT-003	Functional	Hardware	Switch Form Factor for implementation on the IMDP platform	The TTEthamet Switch used on the TMDP Platform shall have standard PMC card form analysis	are required. The TMDP platform foresees a PMC interface to mount the TTEthemet PMC cont	20.10.20	4	New	+	
TTLON	Functional	Harrheare	Switch to compet TMDP and RACE nightness overseased of TMDD state	factor. The TMDP presents switch shall be implemented in an industrial standard PC Involvein	Standard industrial PC can pacify be interview into the Distriction does not all the	20.10.10 Az 20.00		New	+	
			and the second s		opportunity to host a PCIe switch card.	21.10.20			1	
111-005	rundional	oyslem	Lives mensions speed of the backbone	nne oasa nae anal ne roundets. Analysis	cosmosro + + cthemet hardware equipment is available for data rates of 100 Mbit/s and 1 Gbit/s. The TMDP & RACE platform CPUs support 100 Mbit/s, the switch only will	22.10.20	-	Pearw		
TTT-006	Functional	System	TTEthemet End Systems	TTEthernet software based endsystems shall be operational on the TMDP and RACE analysis	need to run at 100 Mbit's data rate. No dedicated extra hardware needs to be installed on the TMDP over RACE violations.	22.10.20	4	New	-	
	1			paliforms in order to suitably connect the two platforms by TTEthemet traffic.	as an end system. CPU capacity avialable will be used only.					
TTT-007	Functional	System	Operating System TMDP Platform and TTEtherent	The TMDP Platform will use PXROS. The backbone data communication shall be analysis	No extra OS shall be required to use the TTEtherent backbone data communication.	22.10.20	4	New	1	
TTT-008	Functional	System	Operating System RACE Platform and TTEtheret	capable of using the MXHUS operating system. The RACE Platform will use PikeOS. The backbone data communication hall be capabilianalysis	No extra OS shall be required to use the TTEtherent backbone data communication.	22:10.20	4	New	1	
TTT-009	Functional	System	Reconfiguration	of using the PikeOS operating system.	By using such approach the need to install hot redundant hardware chall he reviewed	22 10 20	4	New	+	
				by loading gracefully degraded version of the related function to a platform different to	satisfying the same safety standards compared to redundancy installed. The idea is to	10.0				
	1			the one nosing me non grecenary segment without. The gracefully degraded function shall be taken from a repositiony hosted on an ECU independent from the 2 platforms	use ec.co when can be used by detering other non safety critical function in such emergency situationsituation where a safety-relevant function fails.					
111.010	Functional	System	Failure detection	(RACE, IMDY). The TTEThernet platform shall support remote failure detection. analysis	In case remote automatic reconfiguration shall be conducte a system is required to	22.10.20	4	New	+	
111-010			1		detert a failure of a safty-related function on ist own in other to make the decision to		1	1	1	

Functional	System	Sensors and actuators	Sensors and actuators shall be connected to the TTEThemet switches by means of a	analysis	In order to safe funding budget, the sensors and actuators shall be connected to a	22.10.2014		New		
			dedictaed ECU.		dedicated ECU that can be connected to other of the platforms just in order to					
					demonstarte reconfiguration capability. In safety-relevant applications a dedicated					
					redundancy concept needs to implemented including sensors and actuators.					
Functional	System	Dual Swich Concept	The connection between the TMDP and the RACE platforms shall make use of a	analysis	In case of a failure of one switch the other one needs to be able to connect the different	22.10.2014		New		
			redundant architecture concerning switches in order to also demonstrate the		platforms relaibly in order to tolerant one switch failing.					
			capapbilities of a switched network in case of failure and switching requirement							
			between redundantly built system parts.							
	Functional	Functional Bystem	Functional Byteen Benson and advators Functional Byteen Data Stech Concept	Fundanal Bystein Berezin and sectuators Berezin and sectuators and	Fundand Bydan Bernan and securators Bernan and securators and be connected to the TEThemat Heinback by means of a serulysis Fundance Course of the Concept The connected to the TEThemat Heinback by means of a serulysis Fundance Development Heinback by means of a serulysis of the Concept The connected to the Heinback by means of a serulysis regardphate of a serulysis of the context of the contex	Fundarad Bydan Senon and estadors Fundarad Data Senon and estadors that is connected to be TETDennet testibles by means of a leadyst Bernard and estadors and be connected to be TETDennet testibles by means of a leadyst Bernard and Estadors and Bernard Be	Fundarad System Sectors and scattures and as constant to a sector and scattures that is constant to a sector and scattures of a large sector and scattures of	Functional         System         Sectors and scattures shall be conscided to a term TETTerment extitive by mass of a low plan         Involution         Involution         System         System	Functional         Sprain         Sensor and extrautors         Sensor and extrautors and be connected to be TETP-ment methods by means of a language         In order to table Complexity, the sensor and extraunce shall be connected to be TETP-ment methods by means of a language         In order to table Complexity, the sensor and extraunce shall be connected to be the sensor and extraunce shall be connected to be the sensor and extraunce shall be connected to be the sensor and extraunce shall be connected to table of the sensor and extraunce shall be connected to table of the sensor and extrausce shall be connected to table of	Functional         Space         Benchs and extractors         Benchs and extractors to the comments of the