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2017-10-27	17-10	AUTOSAR Release Management	Added requirements for <ul style="list-style-type: none">• Software Component System Design• Security and Safety• Signal-based communication• REST
2017-03-31	17-03	AUTOSAR Release Management	<ul style="list-style-type: none">• Initial release

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1 Scope of Document

This document specifies requirements on the Manifest of the Adaptive Platform.

The Manifest is a formal specification of configuration content that ships along a given piece of software and is used to deploy the software in the field.

The Manifest content can be divided into two areas:

- The Application-related Manifest can be taken to configure the deployment of software, but on the other hand, the same piece of configuration information can also be used in the design of the software.
- The machine-related Manifest content describes the configuration of a machine that runs an AUTOSAR adaptive platform, i.e. without any application running on the machine.

2 Conventions to be used

The representation of requirements in AUTOSAR documents follows the table specified in [TPS_STDT_00078], see Standardization Template [1], chapter Support for Traceability.

The verbal forms for the expression of obligation specified in [TPS_STDT_00053] shall be used to indicate requirements, see Standardization Template [1], chapter Support for Traceability.

3 Requirements Specification

This chapter describes all requirements driving the work to define the TP-S_ManifestSpecification [2].

[RS_MANI_00015] Definition of the nature of a manifest [

Type:	draft
Description:	AUTOSAR shall define the term "manifest"
Rationale:	A unique understanding of the term "manifest" is an immediate prerequisite for the usage of a manifest. Since the term is so prominent on the AUTOSAR adaptive platform it is important to provide a proper definition.
Dependencies:	—
Use Case:	Readers want to be able to fully grasp the meaning of the AUTOSAR specification.
Supporting Material:	—

]([RS_Main_00002](#), [RS_Main_00503](#))

3.1 Application Manifest Overview

The manifest contains all necessary information about an AUTOSAR application that is necessary for the configuration of the middleware.

[RS_MANI_00035] Definition of an uploadable software package [

Type:	draft
Description:	The meta-model shall support the definition of an uploadable software package such that the content of a real software configuration uploaded to a target platform can be formalized.
Dependencies:	–
Use Case:	An integrator takes application software delivered by software developers and executes the integration to the intended target platform. This process creates a bunch of new model elements that are required to configure the target platform such that the uploaded software can work. The integrator therefore needs a means to identify all related model content needed for configuration on the target platform. This approach also needs to be formalized in the meta-model.
Supporting Material:	–

]()

3.1.1 Application Manifest Requirements

[RS_MANI_00001] Adaptive AUTOSAR Application [

Type:	draft
Description:	AUTOSAR shall be able to describe an Adaptive AUTOSAR Application.
Rationale:	The description of the Adaptive AUTOSAR Application represents the prerequisite for the creation of a manifest, i.e. the information the Adaptive Platform needs to integrate the application into the middleware and execution model.
Dependencies:	–
Use Case:	Software that is taken as an input for an integration step to configure the software for an instance of the <i>AUTOSAR adaptive platform</i> .
Supporting Material:	–

] ([RS_Main_00150](#))

3.1.1.1 Application Design

[RS_MANI_00004] Support of application design [

Type:	draft
Description:	AUTOSAR shall provide design elements that are necessary to develop and to describe software for the Adaptive AUTOSAR platform.
Rationale:	Standardized software component design description.

Dependencies:	–
Use Case:	Development of Application Software Components.
Supporting Material:	–

]([RS_Main_00150](#), [RS_Main_00300](#), [RS_Main_00080](#), [RS_Main_00310](#))

[RS_MANI_00002] Declaration of provided and required services in an application

Type:	draft
Description:	AUTOSAR shall support the declaration of services that the application implements and uses. This shall be the only way to describe the interaction of an application with other applications and the platform.
Rationale:	A contract between service consumers and service providers needs to be defined.
Dependencies:	–
Use Case:	The declaration of services allows service consumers to discover services and to use them. Only the Service description is visible to the outside world.
Supporting Material:	–

]([RS_Main_00150](#), [RS_Main_00140](#), [RS_Main_00330](#), [RS_Main_00080](#))

[RS_MANI_00003] Specification of service interfaces

Type:	draft
Description:	AUTOSAR shall allow the specification of service interfaces that define the service functionality.
Rationale:	A service interface defines the way in which applications can interact and exchange information.
Dependencies:	–
Use Case:	Application Design, generation of C++ proxies and skeletons from the service interface description in order to implement the service interface of an application.
Supporting Material:	–

]([RS_Main_00150](#), [RS_Main_00060](#), [RS_Main_00190](#), [RS_Main_00330](#), [RS_Main_00080](#))

[RS_MANI_00017] Specification of the mapping of Service Interfaces

Type:	draft
Description:	AUTOSAR shall allow the specification of a mapping of service interfaces such that the granularity of service-oriented communication can be controlled by the model author.
Rationale:	A service interface defines the way in which an application can interact and exchange information. However, there are cases where the choice made by application developers is not met by the designers of external communication.
Dependencies:	–
Use Case:	Application designers and designers of external communication have different approaches onto granularity of service definition.

Supporting Material:	—
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]([RS_Main_00320](#))

[RS_MANI_00005] Configuration of diagnostic capabilities of an application [

Type:	draft
Description:	AUTOSAR shall support the configuration of diagnostic capabilities of an application.
Rationale:	Each application shall be able to describe how it interacts with the Diagnostic Management.
Dependencies:	—
Use Case:	Description of diagnostic services the application implements and provides to the Diagnostic Management.
Supporting Material:	—

]([RS_Main_00260](#), [RS_Main_00080](#))

[RS_MANI_00016] Usage of data types specifically on the AUTOSAR adaptive platform [

Type:	draft
Description:	The AUTOSAR Adaptive platform shall support the usage of data types as defined in classic AUTOSAR and shall also support additional or deviating data types natively available on the AUTOSAR adaptive platform.
Rationale:	An application on the AUTOSAR adaptive platform shall be able to describe the usage of data types.
Dependencies:	—
Use Case:	Usages of data types that are natively available on the AUTOSAR adaptive platform, e.g. <code>vector</code> or <code>string</code> .
Supporting Material:	—

]([RS_Main_00513](#))

[RS_MANI_00025] Definition and configuration of serialization [

Type:	draft
Description:	AUTOSAR shall allow to define and configure the serialization in the application design.
Rationale:	Serialization code is generated out of the service description and is linked with the application component object file to an application binary.
Dependencies:	—
Use Case:	SOME/IP serialization properties like length fields that are put in front of variable data.
Supporting Material:	—

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[RS_MANI_00027] Support for access to persistent data [

Type:	draft
Description:	AUTOSAR shall allow application software on the <i>AUTOSAR adaptive Platform</i> to access persistently stored data.
Rationale:	In many cases it is necessary to let a subset of the data managed by a given application survive a restart of either the application itself or the underlying operating system.
Dependencies:	–
Use Case:	Application software needs access to mileage counter.
Supporting Material:	–

]([RS_Main_00440](#))

[RS_MANI_00032] Support for platform health management [

Type:	draft
Description:	AUTOSAR shall provide application software on the <i>AUTOSAR adaptive Platform</i> means to interact with the platform health management (PHM).
Rationale:	In order to allow supervision and health management of application software the application software has to provide information about the supervision, checkpoints and health channels.
Dependencies:	–
Use Case:	Application software needs to report its progress such that the progress can be monitored by the platform health management.
Supporting Material:	–

]([RS_Main_00001](#), [RS_Main_00010](#), [RS_Main_00011](#), [RS_Main_00340](#))

[RS_MANI_00030] Definition of optional elements in composite data structures [

Type:	draft
Description:	The manifest shall support the configuration of optional elements for composite data structures used for communication.
Dependencies:	–
Use Case:	The sender of a composite data structure is unable to fill the entire data structure with meaningful values. The sender renders specific elements of the composite data as unavailable and the receiver is able to deal with the fact that the composite data structure is only partially available. An example for such a complex data structure could be an environment model where specific characteristic parts of the environment, e.g. a traffic sign may or may not exist depending on the location where the information in the environment model is captured.
Supporting Material:	–

]([RS_Main_00300](#))

[RS_MANI_00031] Interaction with Crypto Software [

Type:	draft
Description:	The manifest shall support the interaction of application software with crypto software on the adaptive platform.
Dependencies:	–

Use Case:	The application software owns data with a certain level of confidentiality (e.g. personally identifiable information, payment data) that needs to be cryptographically secured. For this purpose, the application software needs the ability to provide an API for the interaction with platform-level crypto software to achieve the encryption of sensitive information.
Supporting Material:	—

] ([RS_Main_00445](#))

[RS_MANI_00033] Interaction with web services based on the REST pattern [

Type:	draft
Description:	The manifest shall support the interaction of application software with REST-based web services inside and outside the vehicle.
Dependencies:	—
Use Case:	The application software on the <i>AUTOSAR adaptive platform</i> interacts with a web service inside or outside the vehicle. Since the web service is not necessarily prepared to talk to the application software on AUTOSAR's terms the application software needs to interact with the web service on the web service's terms. For this purpose, the application software shall be able to utilize a REST-based communication with the web service.
Supporting Material:	—

]()

[RS_MANI_00034] Specification of capabilities [

Type:	draft
Description:	The manifest shall support the definition of capabilities where application software can declare the intended usage of service elements.
Dependencies:	—
Use Case:	The application software uses a specific ServiceInterface for its interaction with the outside world. However, the application software intends to restrict its usage of the ServiceInterface to certain elements of the ServiceInterface. This information is helpful for the definition of access control and also contributes to the creation of a security model for the overall functionality.
Supporting Material:	—

]()

3.1.1.2 Execution

[RS_MANI_00006] Support of application deployment [

Type:	draft
Description:	The manifest shall support a connection between application design and application deployment.
Rationale:	Definition of an executable that at runtime makes a POSIX process.
Dependencies:	—

Use Case:	The Execution Manager uses the manifest content to start up and configure each process individually.
Supporting Material:	—

]([RS_Main_00320](#), [RS_Main_00049](#), [RS_Main_00050](#))

[RS_MANI_00007] Configuration of application startup behavior [

Type:	draft
Description:	The manifest shall support the configuration of an application startup that is dependent on the current machine state.
Rationale:	Different machine states require a different set of (executed) applications.
Dependencies:	—
Use Case:	The Execution Manager uses the manifest content to start up and shutdown each process depending on the available machine state.
Supporting Material:	—

]([RS_Main_00320](#), [RS_Main_00049](#), [RS_Main_00050](#))

3.2 Deployment Manifest Overview

The Manifest contains all necessary information about the deployment of an AUTOSAR application onto the adaptive AUTOSAR platform that is necessary for the configuration of the middleware.

3.2.1 Deployment Manifest Requirements

[RS_MANI_00011] Instantiation of provided and required services in an application [

Type:	draft
Description:	The manifest shall support the instantiation of provided and required services in an application by defining service instances and assigning these to the respective services.
Rationale:	Each time an application is instantiated on a machine for each provided service and for each required service a service instance shall be defined. Each time a single service is used in different roles within a single application different instances shall be defined.
Dependencies:	—
Use Case:	Camera Service may be instantiated as FrontCamera and RearCamera instances.
Supporting Material:	—

]([RS_Main_00280](#), [RS_Main_00505](#), [RS_Main_00320](#), [RS_Main_01005](#))

[RS_MANI_00009] Service instance configuration on the network-level [

Type:	draft
Description:	The manifest shall support the configuration of service instances on the network-level and the assignment of these service instances to a machine.
Rationale:	For each service that is provided or requested on a machine a service instance shall be defined.
Dependencies:	–
Use Case:	Facilitate the definition of service instances without requiring the definition of a component model.
Supporting Material:	–

]([RS_Main_00280](#), [RS_Main_00505](#), [RS_Main_00320](#), [RS_Main_01005](#))

[RS_MANI_00008] Service interface deployment to a transport layer mechanism

Type:	draft
Description:	The manifest shall support the deployment of a service interface to one or several transport layer mechanisms.
Rationale:	Different service interfaces support different transport mechanisms because of deployment decisions.
Dependencies:	–
Use Case:	Offering of a service interface via SOME/IP and/or user-defined transport layer mechanisms.
Supporting Material:	–

]([RS_Main_00280](#), [RS_Main_00505](#), [RS_Main_00320](#), [RS_Main_01005](#))

[RS_MANI_00014] User defined transport layer mechanisms

Type:	draft
Description:	The manifest shall support the usage of transport layer mechanisms that are not standardized by AUTOSAR.
Rationale:	Adaptive AUTOSAR applications shall be able to communicate with non-AUTOSAR applications located on the same or on remote ECUs using transport layers that are not standardized by AUTOSAR.
Dependencies:	–
Use Case:	Usage of shared memory based IPC transport mechanism not standardized by AUTOSAR. Interaction with DDS-based systems/ECUs.
Supporting Material:	–

]([RS_Main_01001](#), [RS_Main_01005](#))

[RS_MANI_00024] SOME/IP transport layer mechanisms

Type:	draft
Description:	The manifest shall support the usage of the SOME/IP transport layer mechanism.
Rationale:	Adaptive AUTOSAR applications shall be able to communicate with other adaptive (or classic) AUTOSAR applications located on remote ECUs using SOME/IP transport layer mechanisms.

Dependencies:	–
Use Case:	Standardized service-oriented communication.
Supporting Material:	–

]([RS_Main_00280](#), [RS_Main_00505](#), [RS_Main_01005](#))

[RS_MANI_00019] Service discovery message exchange configuration [

Type:	draft
Description:	The manifest shall provide means to configure the service discovery message exchange for the different supported transport layer mechanisms.
Rationale:	Service discovery messages are exchanged in the System with multicast addressing to a specific configured IP multicast address at a specific configured port number.
Dependencies:	–
Use Case:	SOME/IP service discovery configuration.
Supporting Material:	–

]([RS_Main_00280](#), [RS_Main_00505](#), [RS_Main_01005](#))

[RS_MANI_00028] Configuration of Safety protection [

Type:	draft
Description:	The manifest shall provide means to configure the Safety protection of data specified in a Service Interface.
Rationale:	Adaptive AUTOSAR applications shall be able to communicate with other adaptive (or classic) AUTOSAR applications over a communication path in a safe way.
Dependencies:	–
Use Case:	Sending and receiving of End-to-End protected Events over SOME/IP.
Supporting Material:	–

]([RS_Main_00010](#))

[RS_MANI_00036] Configuration of security protection [

Type:	draft
Description:	The manifest shall provide means to configure the security protection of data specified in a Service Interface.
Rationale:	Adaptive AUTOSAR applications shall be able to communicate with other adaptive (or classic) AUTOSAR applications over a secured communication channel.
Dependencies:	–
Use Case:	Sending and Receiving of Events over SOME/IP in an encrypted or authenticated way.
Supporting Material:	–

]([RS_Main_00514](#), [RS_Main_00510](#), [RS_Main_01008](#))

3.3 Machine Manifest Overview

The Manifest contains all necessary information about the configuration of a machine.

3.3.1 Machine Manifest Requirements

[RS_MANI_00018] Network connections of the machine [

Type:	draft
Description:	The manifest shall provide means to configure the network connections of a machine.
Rationale:	Configure the network connections for in-vehicle usage.
Dependencies:	–
Use Case:	IPv4 and IPv6 configuration.
Supporting Material:	–

]([RS_Main_00230](#))

[RS_MANI_00020] Hardware resources of the machine [

Type:	draft
Description:	The manifest shall provide means to describe the hardware resources of a machine.
Rationale:	The knowledge of existing hardware resources is essential if new applications are allocated to the machine.
Dependencies:	–
Use Case:	Description of available RAM. Description of available CPU power.
Supporting Material:	–

]([RS_Main_00503](#), [RS_Main_00435](#))

[RS_MANI_00021] Description of machine states [

Type:	draft
Description:	The manifest shall provide means to describe available machine states.
Rationale:	Provides mechanism to define machine states for various operational conditions.
Dependencies:	–
Use Case:	Application is running only in a given machine state.
Supporting Material:	–

]([RS_Main_00002](#), [RS_Main_00460](#))

[RS_MANI_00022] Adaptive Platform configuration [

Type:	draft
Description:	The manifest shall provide means to configure the adaptive platform on a specific machine.

Rationale:	Decision which Adaptive Modules and their respective configuration are deployed to a specific machine.
Dependencies:	–
Use Case:	For one dedicated Platform Instance the following Adaptive Modules are deployed: ExecutionManagment, CommunicationManagement and WatchdogManagement, but not Diagnostics.
Supporting Material:	–

]([RS_Main_00002](#))

[RS_MANI_00023] Adaptive Module configuration [

Type:	draft
Description:	The manifest shall provide means to configure the instance of a module on a specific machine.
Rationale:	Configuration of Watchdog and OS.
Dependencies:	–
Use Case:	Configure the effective access role of OS.
Supporting Material:	–

]([RS_Main_00002](#))

3.4 System Design Overview

The AUTOSAR model description supports the software component system design for the entire vehicle with the possibility to describe all Software Components of both Autosar Platforms that will be used in a System.

3.4.1 System Design Requirements

[RS_MANI_00026] Software Component System Design [

Type:	draft
Description:	AUTOSAR shall support the system (vehicle) software component design with the possibility to describe software components of different AUTOSAR platforms (Classic Platform and Adaptive Platform) in a common model.
Rationale:	A typical vehicle will most likely be equipped with ECUs developed on the AUTOSAR classic platform and ECUs developed on the AUTOSAR adaptive platform. Therefore a software component system design modeling for the entire vehicle shall be supported by AUTOSAR.
Dependencies:	–
Use Case:	Modeling of a Classic Platform Software Component that communicates with an Adaptive Platform Software Component.
Supporting Material:	–

]([RS_Main_00161](#), [RS_Main_00310](#))

[RS_MANI_00029] Mapping description between Signal-based communication and Service-Oriented communication [

Type:	draft
Description:	AUTOSAR shall support the communication description between Classic Platform Software Components that are available on an ECU that only supports the Signal-based communication and Adaptive Applications that only support the Service-Oriented communication.
Rationale:	An application shall be able to access received Signals and map their content to service oriented communication that is used on the Adaptive Platform according to a provided mapping description.
Dependencies:	–
Use Case:	Integration of an application on Adaptive platform that is communicating with a Software Component on Classic Platform that is available on an ECU that is only connected to a CAN bus and sends and receives Signals.
Supporting Material:	–

]([RS_Main_00012](#))

4 Requirements Tracing

The following table references the features specified in [3] and links to the fulfillments of these.

Feature	Description	Satisfied by
[RS_Main_00001]	AUTOSAR shall provide a software platform for deeply embedded systems	[RS_MANI_00032]
[RS_Main_00002]	AUTOSAR shall provide a software platform for high performance computing platforms	[RS_MANI_00015] [RS_MANI_00021] [RS_MANI_00022] [RS_MANI_00023]
[RS_Main_00010]	AUTOSAR shall support the development of safety related systems.	[RS_MANI_00028] [RS_MANI_00032]
[RS_Main_00011]	AUTOSAR shall support the development of reliable systems	[RS_MANI_00032]
[RS_Main_00012]	AUTOSAR shall provide a software platform to support the development of highly available systems.	[RS_MANI_00029]
[RS_Main_00049]	AUTOSAR shall provide an Execution Management for running multiple applications	[RS_MANI_00006] [RS_MANI_00007]
[RS_Main_00050]	AUTOSAR shall provide an Execution Framework towards applications to implement concurrent application internal control flows.	[RS_MANI_00006] [RS_MANI_00007]
[RS_Main_00060]	AUTOSAR shall provide a standardized software interface for communication between Applications	[RS_MANI_00003]
[RS_Main_00080]	AUTOSAR shall provide means to describe a component model for Application Software	[RS_MANI_00002] [RS_MANI_00003] [RS_MANI_00004] [RS_MANI_00005]
[RS_Main_00140]	AUTOSAR shall provide network independent communication mechanisms for applications	[RS_MANI_00002]
[RS_Main_00150]	AUTOSAR shall support the deployment and reallocation of AUTOSAR Application Software	[RS_MANI_00001] [RS_MANI_00002] [RS_MANI_00003] [RS_MANI_00004]
[RS_Main_00161]	AUTOSAR shall provide a unified way to describe software systems deployed to Adaptive and / or Classic platforms.	[RS_MANI_00026]
[RS_Main_00190]	AUTOSAR shall support interoperability with non-AUTOSAR software on the same ECU	[RS_MANI_00003]
[RS_Main_00230]	AUTOSAR shall support network topologies including gateways	[RS_MANI_00018]
[RS_Main_00260]	AUTOSAR shall provide diagnostics means during runtime, for production and services purposes	[RS_MANI_00005]
[RS_Main_00280]	AUTOSAR shall provide standardized communication interfaces for the onboard data exchange between ECUs with different software platforms	[RS_MANI_00008] [RS_MANI_00009] [RS_MANI_00011] [RS_MANI_00019] [RS_MANI_00024]
[RS_Main_00300]	AUTOSAR shall provide data exchange formats to support work-share in large inter and intra company development groups	[RS_MANI_00004] [RS_MANI_00030]

[RS_Main_00310]	AUTOSAR shall support hierarchical Application Software design methods	[RS_MANI_00004] [RS_MANI_00026]
[RS_Main_00320]	AUTOSAR shall provide formats to specify system development	[RS_MANI_00006] [RS_MANI_00007] [RS_MANI_00008] [RS_MANI_00009] [RS_MANI_00011] [RS_MANI_00017]
[RS_Main_00330]	AUTOSAR shall support the principle of information hiding	[RS_MANI_00002] [RS_MANI_00003]
[RS_Main_00340]	AUTOSAR shall support the continuous timing requirement analysis	[RS_MANI_00032]
[RS_Main_00435]	AUTOSAR shall support automotive microcontrollers	[RS_MANI_00020]
[RS_Main_00440]	AUTOSAR shall standardize access to non-volatile memory	[RS_MANI_00027]
[RS_Main_00445]	AUTOSAR shall standardize access to crypto-specific HW and SW	[RS_MANI_00031]
[RS_Main_00460]	AUTOSAR shall standardize methods to organize mode management on Application, ECU and System level	[RS_MANI_00021]
[RS_Main_00503]	AUTOSAR shall provide a Software Platform that supports adaptation of communication topology after production	[RS_MANI_00015] [RS_MANI_00020]
[RS_Main_00505]	AUTOSAR support the interaction of onboard application software with offboard systems.	[RS_MANI_00008] [RS_MANI_00009] [RS_MANI_00011] [RS_MANI_00019] [RS_MANI_00024]
[RS_Main_00510]	AUTOSAR shall support secure onboard communication	[RS_MANI_00036]
[RS_Main_00513]	AUTOSAR shall support language bindings for different programming languages	[RS_MANI_00016]
[RS_Main_00514]	AUTOSAR shall support the development of secure systems	[RS_MANI_00036]
[RS_Main_01001]	AUTOSAR shall support intra ECU communication	[RS_MANI_00014]
[RS_Main_01005]	AUTOSAR shall establish communication paths dynamically	[RS_MANI_00008] [RS_MANI_00009] [RS_MANI_00011] [RS_MANI_00014] [RS_MANI_00019] [RS_MANI_00024]
[RS_Main_01008]	AUTOSAR shall provide secure communication with off-board entities	[RS_MANI_00036]

5 References

- [1] Requirements on Standardization Template
AUTOSAR_RS_StandardizationTemplate
- [2] Specification of Manifest

AUTOSAR_TPS_ManifestSpecification

[3] Main Requirements
AUTOSAR_RS_Main

6 Change History of this Document

6.1 Change History of this Document according to the original version of the Document

Number	Heading
[RS_MANI_00001]	Adaptive AUTOSAR Application
[RS_MANI_00002]	Declaration of provided and required services in an application
[RS_MANI_00003]	Specification of service interfaces
[RS_MANI_00004]	Support of application design
[RS_MANI_00005]	Configuration of diagnostic capabilities of an application
[RS_MANI_00006]	Support of application deployment
[RS_MANI_00007]	Configuration of application startup behavior
[RS_MANI_00008]	Service interface deployment to a transport layer mechanism
[RS_MANI_00009]	Service instance configuration on the network-level
[RS_MANI_00011]	Instantiation of provided and required services in an application
[RS_MANI_00014]	User defined transport layer mechanisms
[RS_MANI_00015]	Definition of the nature of a manifest
[RS_MANI_00016]	Usage of data types specifically on the AUTOSAR adaptive platform
[RS_MANI_00017]	Specification of the mapping of Service Interfaces
[RS_MANI_00018]	Network connections of the machine
[RS_MANI_00019]	Service discovery message exchange configuration
[RS_MANI_00020]	Hardware resources of the machine
[RS_MANI_00021]	Description of machine states
[RS_MANI_00022]	Adaptive Platform configuration
[RS_MANI_00023]	Adaptive Module configuration
[RS_MANI_00024]	SOME/IP transport layer mechanisms
[RS_MANI_00025]	Definition and configuration of serialization

Table 6.1: Added Requirements in original Version

6.2 Change History of this document according to AUTOSAR Release 17-10

6.2.1 Added Traceables in 17-10

Number	Heading
[RS_MANI_00026]	Software Component System Design
[RS_MANI_00027]	Support for access to persistent data
[RS_MANI_00028]	Configuration of Safety protection
[RS_MANI_00029]	Mapping description between Signal-based communication and Service-Oriented communication

Number	Heading
[RS_MANI_00030]	Definition of optional elements in composite data structures
[RS_MANI_00031]	Interaction with Crypto Software
[RS_MANI_00032]	Support for platform health management supervision
[RS_MANI_00033]	Interaction with web services based on the REST pattern
[RS_MANI_00034]	Specification of capabilities
[RS_MANI_00035]	Definition of an uploadable software package
[RS_MANI_00036]	Configuration of security protection

Table 6.2: Added Traceables in 17-10

6.2.2 Changed Traceables in 17-10

Number	Heading
[RS_MANI_00001]	Adaptive AUTOSAR Application

Table 6.3: Changed Traceables in 17-10

6.2.3 Deleted Traceables in 17-10

none