<table>
<thead>
<tr>
<th>Document Title</th>
<th>Acceptance Tests Release 1.0 Overview and Revision History</th>
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<tr>
<td>Document Owner</td>
<td>AUTOSAR</td>
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<tr>
<td>Document Responsibility</td>
<td>Release Management</td>
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<td>680</td>
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<tr>
<td>Document Classification</td>
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<tr>
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<tr>
<td>Part of AUTOSAR Release</td>
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</tr>
<tr>
<td>Release Life Cycle Status</td>
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**Document Change History**

<table>
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<th>Date</th>
<th>Release</th>
<th>Changed by</th>
<th>Change Description</th>
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<tr>
<td>22.07.2014</td>
<td>1.0.0</td>
<td>AUTOSAR Release Management</td>
<td>Initial version</td>
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1 Scope of this Document

This document provides an overview of the complement of AUTOSAR documents comprising the Acceptance Tests Release 1.0 in its latest Revision 0.

1.1 Document Overview

This document is structured as follows:

Chapter 2 provides a list of documentation references.

Chapter 3 provides a summary of changes that were implemented since the preceding Release.

Chapter 4 contains the overview of documents comprising the Release 1.0 in its latest Revision 0.

Chapter 5 contains remarks about known technical deficiencies.

Chapter 6 contains the detailed Revision History.

Chapter 7 provides a set of definitions aimed to increase the understanding of the content of this document and the Acceptance Tests Release 1.0.
2 Related Documentation

[1] Glossary
   AUTOSAR_TR_Glossary.pdf
3 Acceptance Tests Release 1.0 – Summary of Changes

The Acceptance Tests Release 1.0 is the first release of acceptance tests by the AUTOSAR Partnership.
4 Acceptance Tests Release 1.0 – Document Overview

As of the latest Revision 0, the following documents are part of the Acceptance Tests Release 1.0.

<table>
<thead>
<tr>
<th>Document</th>
<th>Classification</th>
<th>File Name</th>
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<td>Acceptance Test Specification of Ecu Mode Management</td>
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<td>Acceptance Test Specification of Communication on LIN bus</td>
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<tr>
<td>Acceptance Test Specification of Communication on FlexRay bus</td>
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<td>AUTOSAR_ATS_CommunicationFlexRay</td>
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<tr>
<td>Acceptance Test Specification of Memory Stack</td>
<td>std</td>
<td>AUTOSAR_ATS_MemoryStack</td>
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<td>Acceptance Test Specification of Diagnostic Services</td>
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<td>Overview of Acceptance Tests</td>
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<td>AUTOSAR_EXP_AcceptanceTestsOverview</td>
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<td>AUTOSAR_TR_ATSReleaseApplicability</td>
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4.1 Applicability to AUTOSAR Releases

The tests specification released as of the latest Revision 0 of the AUTOSAR Acceptance Tests Release 1.0 are applicable to the software specification of the AUTOSAR Release 4.1, Revision 1.

Earlier releases of the AUTOSAR software specification are supported in the following ways:

- When test cases are known to be applicable to earlier releases Release 4.0 Revision 3 or Release 3.2 Revision 2, this is mentioned in the “AUTOSAR Releases” field of the test case specifications. The applicability of all test cases to the AUTOSAR software specification releases is summarized in the document AUTOSAR_TR_ATSReleaseApplicability.

- When test cases are known to require adaptations (in their configuration requirements or test sequences), this is mentioned in the “Needed Adaptation to other Releases” field of the test case specifications.
5 Remarks to Known Technical Deficiencies

The technical deficiencies per document are – if applicable – mentioned inside the respective specification in a chapter called “Known Limitations” which is located after the table of contents. There are the following technical deficiencies to be mentioned which are not related to a specific document:

- **Requirements traceability**
  Traceability from the AUTOSAR test specifications to the AUTOSAR software specifications, at feature, requirement or test case / SWS level is not complete.

- **Requirements on configuration**
  The scope of the standard acceptance tests is to test an ICC1 stack. The configuration of the stack is needed to test the standard behaviors. Configuration therefore has to be expressed with upstream template parameters. It is however not always possible or useful:
    - diagnostic test cases
    - RTE test cases
  In such case, ECU configuration parameters have been used.
## Revision History of the Release 1.0

The Acceptance Test specification has been released the first time on the 22nd of July 2014. The release comprised the following deliverables.

<table>
<thead>
<tr>
<th>Specification</th>
<th>State</th>
<th>Comment</th>
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| Acceptance Test Specification of RTE | added | Initial release, including test suites on  
- RS_BRF_01312 – Rte Client Server Communication  
- RS_BRF_01320 & RS_BRF_01328 – Rte SWC scheduling and activation from events  
- RS_BRF_01376 – Rte Data Conversion  
- RS_BRF_01304/RS_BRF_01352 – Rte Sender Receiver Communication |
| Acceptance Test Specification of Ecu Mode Management | added | Initial release, including test suites on  
- RS_BRF_01488 – EcuM Current Mode  
- RS_BRF_01488 – EcuM State Request  
- RS_BRF_02152 – EcuM Boot Target  
- RS_BRF_02152 – EcuM Shutdown Target |
| Acceptance Test Specification of communication via bus | added | Initial release, including test suites on  
- RS_BRF_01600  
- RS_BRF_01616  
- RS_BRF_01592 (Independent)  
- RS_BRF_01548 (Independent)  
- RS_BRF_01632 |
| Acceptance Test Specification of Communication Management | added | Initial release, including test suites on  
- RS_BRF_01448 (ComM current mode)  
- RS_BRF_01680 (Network Management)  
- RS_BRF_01688 (ComM User Request)  
- RS_BRF_01696 (Partial Networking)  
- CAN Network Management |
| Acceptance Test Specification of Communication on CAN bus | added | Initial release, including test suites on  
- RS_B RF_01592 – Data Transfer  
- RS_BRF_01648 – Large Data Type  
- RS_BRF_01707 – Can Bus Off handling |
| Acceptance Test Specification of Communication on LIN bus | added | Initial release, including test suites on  
- RS_BRF_01591 – Data Transfer  
- RS_BRF_01648 – Large Data Type |
| Acceptance Test Specification of Communication on FlexRay bus | added | Initial release, including test suites on  
- RS_BRF_01592 – Data Transfer  
- RS_BRF_01648 – Large Data Type |
| Acceptance Test Specification of Memory Stack | added | First version |
| Acceptance Test Specification of Diagnostic Services | added | Initial release, including test suites on  
- Dem DiagnosticMonitor  
- Dcm DataServices  
- Dcm RoutineServices |
| Acceptance Tests Main Requirements | added | Initial release |
| Feature Specification of the Acceptance Tests | added | Initial release |
| Requirements on Acceptance Tests | added | Initial release |
| Overview of Acceptance Tests | added | Initial release |
| Applicability of test cases to software releases | added | Initial release |
7 Appendix
7.1 Definitions

As far as not explained in this chapter, a collection of AUTOSAR definitions is provided in the Glossary [1].

7.1.1 Release Number

AUTOSAR applies a two-digit numbering scheme Rx.y to identify Releases. Its primary purpose is to identify a Release as a major (upgrade, can contain non-backward-compatible extensions) or as minor (update, backward compatible extensions) Release. Incrementing the first digit “x” does identify a Release as major, whereas incrementing “y” will mark a Release as only minor by nature.

7.1.2 Revision Number

The Revision Number extends the Release Numbering scheme as explained in section 7.1.1. Combined with the Release Number, the Revision Number shall:

1) Precisely identify the actual content (set of documents) of a given Release,
2) As depicted in every document, precisely identify a given document (with its unique name and three-digit version ID) as being part of the Release

Item 1) addresses the fact that the set of documents comprising a Release (in the meaning of a baseline) is rarely established once at a certain point in time (“Big Bang”), but rather evolves and/or varies over a certain timeframe. The maximum duration, which is limited by the timeframe, a Release is declared as “valid” by the AUTOSAR Partnership (see section 7.1.3).

Hence with Item 1), a major prerequisite will be put in place to enable the Standard Maintenance as planned by the AUTOSAR Partnership. In general, the primary objective is to avoid the provision of an additional – previously not planned – Release in case only one or a few documents were to be modified as part of the Standard Maintenance. Conversely, without the application of a Revision Number, if the AUTOSAR partnership wants to avoid the provision of (an) additional intermediate Release(s), one would have to defer the introduction of any changes until the next planned Release – even in case of changes urgently needed by the applicants of the AUTOSAR Standard.

Item 2) is complementary to Item 1) in that for every document a unique identifier is provided upon which Revision a) a document was either 1st time added to/removed from a Release or b) a document was modified as being part of one and the same Release, as long the latter is valid and therefore subject to Standard Maintenance.

Hence with item 2), the combination of Release and Revision Number in a document can be interpreted either as a) “document was (1st time) added to the Release x.y Rev n” or b) as “document was modified as part of Release x.y Rev m”, with m > n.
Conversely, the Revision number will only change for documents subject to addition or modification of a valid Release (baseline). After their 1st time addition to the Release (baseline), it will not change for documents which are not modified.

In the light of the above provided background, as an additional remark, the Revision Number will only be applied for each document’s Release version, i.e. it will not be applied to working versions.

7.1.3 Release Life Cycle of a major Release

Each major release goes through four consecutive steps within its lifecycle:

1. Development: Between start of life cycle and the initial release (e.g. R1.0.0)
2. Evolution: Following the initial release with zero, one or several minor releases and/or revisions (e.g. R1.0.1, R1.1.0)
3. Maintenance: Existing content of a major release (such as test suites or test cases, support for AUTOSAR software releases) is maintained within zero, one or several revisions (e.g. R1.0.1).
4. Issue Notice: No more revisions but zero, one or several issue notices, i.e. updates of the list of known issues until end of life cycle.

7.1.4 Standard Specifications and Auxiliary Material

Standard Specifications are documents, models or formats which comprise the main result of the AUTOSAR Partnership. It includes the standardized results which have to be fulfilled to achieve AUTOSAR conformance.

In Release 1.0, Standard Specifications are stored at the following URL:
https://svn.autosar.org/repos/work/26_Products/20_AT/01_Releases/R1.0/01_Standard

Auxiliary Material is a supporting document, model or format meant to further explain and/or improve the usability of standard specifications of the AUTOSAR partnership. Auxiliary material is recommended to read and/or use for a better understanding or harmonized usage of the AUTOSAR standard but is not mandatory to follow for AUTOSAR conformance.

In Release 1.0, Auxiliary Material is stored at the following URL:
https://svn.autosar.org/repos/work/26_Products/20_AT/01_Releases/R1.0/02_Auxiliary

Contents of auxiliary documents remain of auxiliary nature even if they are referenced from standard documents.
7.1.5  Release Clusters

Not applicable.