Just to clarify the purpose of the Acceptance Criteria, as discussed in the meeting of 19/06/2019 here follows a description of an Acceptance Criteria for a requirement that can be seen below (AC1031). This is a transformed subset of a real scenario used in another customer’s application.

Description: The implementation of a software unit implies that a STRING will be moved from a computer called SERVER\_SIDE to another computer called CLIENT\_SIDE that runs an application called SIMULATOR and a prefix "An\_" shall be prefixed to the STRING. Some verifications shall have to be performed.

Exercise: I let a small bug in one of the Acceptance Criteria so that the reviewer of the Acceptance Criteria shall detect and flag the bug.

Automatic Plan Naming conversion (Name of Story in Jira)

Description of Story: **As a user I want** that STRING be sent from SERVER\_SIDE to CLIENT\_SIDE computer and that STRING be prefixed with a string "An\_" where "n" is a self incrementing number up to 2 digits. Use of Gherkin language (see pictures in <https://www.guru99.com/gherkin-test-cucumber.html>)

Acceptance Criteria:

#1

**GIVEN** A User is on SERVER\_SIDE side

**AND** STRING is exported to CLIENT\_SIDE

**WHEN** A User has SIMULATOR on CLIENT\_SIDE running

**AND** The STRING is delivered to the SIMULATOR

**THEN** A prefix "An\_" is added to the original STRING, where "n" is a self increment number up 2 digits.

Example: STRING = "ANALYTICS" Outcome: STRING = "A1\_ANALYTICS"

#2

**GIVEN** User is on SERVER\_SIDE side

**AND** STRING already has the prefix "An\_", where "n" is a self increment number up 2 digits

**AND** 'n' is lower than 99

**AND** STRING is exported to CLIENT\_SIDE

**WHEN** A user has SIMULATOR on CLIENT\_SIDE running

**AND** STRING is delivered to SIMULATOR

**THEN** The "n" on the prefix is incremented by 1 (n=n+1)

**AND** A prefix "An\_" is added to the original STRING, where "n" is a self increment number up 2 digits

Example: STRING = "A1\_ANALYTICS" Outcome: STRING = "A2\_ANALYTICS"

#3

**GIVEN** User is on SERVER\_SIDE side

**AND** STRING already has the prefix "An\_", where "n" is a self increment number up 2 digits

**AND** 'n' is equal to 99

**AND** STRING is exported to CLIENT\_SIDE

**WHEN** A user has SIMULATOR on CLIENT\_SIDE running

**AND**  STRING is delivered to SIMULATOR

**THEN** An warning is prompted to the user informing that is not possible to change STRING.

Example: STRING = "A99\_ANALYTICS" Outcome: Warning

Applicable Reqs: **AC1031** (hyperlink to DOORS to keep traceability. DOORS shall keep a link to this requirement to keep traceability)

Requirement text in DOORS (Shall not be copied to Jira)

CLIENT\_SIDE SIMULATOR shall create a copy of a STRING that was exported from SERVER\_SIDE database. This STRING shall be converted to a STRING with a “An\_” prefix.

The “n” in the above-mentioned prefix is a self-incrementing number, with “n” being 2 digits maximum. No trailing zero shall be presented e.g. “01” shall be “1”.

When “n” reaches the 2 digit limit, CLIENT\_SIDE SIMULATOR will not perform the transformation of STRING and present a warning message detailing the error, as described on requirement AC1030 (Link to Doors).

Definition of READY/DONE

Relevance of these definitions

READY: with a solid definition of READY we are able to know if an artifact is workable. This definition must be agreed between ALTRAN and BOSCH so that everyone will agree that an artifact can be taken from the backlog or not.

For example, artifacts written in any language other than English are not ready. If the artifact is related to safety or not (as the quality will demand a much more strict handling of a requirement related to safety than a requirement not related to safety).

DONE: with a solid definition of DONE we are able to state when an artifact is ready to be delivered to the costumer. This definition must be agreed between ALTRAN and BOSCH so that everyone will agree that an artifact can be delivered or not.

# READY

## Traceability

### The Artifact was updated with the Doors reference

### The Doors artifact was updated with the task reference

## Readability

### The Artifact is written in English, it’s purpose is simple and easy to understand

## Parameters

### All parameters (performance/timings/temperatures/etc) and known, including its units (seconds, milliseconds, Celsius, Fahrenheit)

## Tools

### The Tools (applications) necessary to implement the lifecycle of the artifact are known and are configured in the related computer

## Testability

### The Artifact can be tested

## ASIL Definition

### If the Artifact has ASIL, what is its value and if ASIL decomposition was used, its dependencies

## Configuration

### If the software is configurable, it shall be clear what parts the configuration applies and the format of the file used to provide the parameters

# DONE (For Non Safety Related Artifacts)

## The definition of READY was fulfilled

## The Acceptance Criteria was implemented:

## Based on the artifact text, the acceptance criteria was written

## The acceptance criteria is broad and includes all scenarios, even those that seems almost impossible to happen.

### The Acceptance Criteria shall follow the pattern:

### GIVEN - What is known

### AND - Additional optional known facts

### WHEN - a given action happens

### AND - additional optional actions happens

### THEN - expected result

### AND - Additional optional results

## The Acceptance Criteria was reviewed (Not by 2);

## The Code was implemented;

## The Code was reviewed (Not by 4);

## The Unit tests were implemented;

## The Unit tests were reviewed (not by 6);

## All Unit Tests passed;

## The Integration tests were implemented;

## The Integration tests were reviewed (Not by 9)

## All integration tests passed

## The Functional Tests were implemented (Based on the Acceptance Criteria);

## The Functional Tests were reviewed (not by 12);

## All Functional Tests passed;

## Final revision

## Code is delivered

## By Artifact: Code was delivered to BOSCH

## By Component: Code is kept until Component passed by all life cycle of the Component (To Be Defined)