



Guidelines to improve traceability between specifications and tests

> Objective of the page

What ?	 Recommendations for good traceability between specifications and tests
Why ?	<ul style="list-style-type: none"> ➡ Link from specifications to test <ul style="list-style-type: none"> To ensure all what is specified is tested, i.e. to not forget to test part of the specifications ⬅ Link from test to specifications <ul style="list-style-type: none"> To know in 1 test case which specification is being tested
Who ?	<ul style="list-style-type: none"> 👤 By who ? Amadeus product definition analyst community and QA teams 👥 For who ? Anybody writing/involved in specifications in Amadeus and/or test plan/test cases definition
How ?	<ul style="list-style-type: none"> 🔗 This guideline page <ul style="list-style-type: none"> is already referenced in Amadeus specifications guidelines (which should be referenced in your own specification user-guide). should be referenced in your validation guidelines. 💡 You can suggest changes and enhancements in the guidelines : <ul style="list-style-type: none"> 💬 By adding comments 👤 By contacting 1A PDA Community core team members or QA teams
When ?	 Any time you are writing specifications or test plans

① Glossary Terminology used in this page is the official [ISTQB terminology](#)

- **Test plan:** Documentation describing the test objectives to be achieved and the means and the schedule for achieving them, organized to coordinate testing activities.
- **Test case:** A set of preconditions, inputs, actions (where applicable), expected results and postconditions, developed based on test conditions.
- **Test script:** A sequence of instructions for the execution of a test.
- **Test report:** Documentation summarizing test activities and results.
- **Product/feature documentation:** any documentation that describe how a given product/feature is working. It can be a Functional or Technical specification, an ICD...

- [Guidelines](#)
- [Examples with most used tools](#)
 - [Link from the test to the specifications](#)
 - [With ALM and Octane](#)
 - [With Confluence](#)
 - [Link from the specifications to the test](#)
 - [In Confluence](#)

Guidelines

Basic



What ?

- From any documentation which explains how the product/feature/sub part of a feature works, we shall have links to [latest](#) associated tests (test plan or test case depending on the need).
- From any test (test plan or test case depending on the need), we shall have links to the [latest](#) related product/feature documentation.



When ?

- The information about traceability between test case and product documentation shall be present when the test is ready to be run.



How ?

- Test cases and test plan (if any) shall be reviewed.
The formal review of product documentation shall be an exit criteria for a user story/delivery to be completed.

App is not responding. Wait or [cancel?](#)

Advanced

- Any documentation and tests shall be controlled documents (with version as a minimum, if possible with status and approval status).

The granularity of the traceability can be tailored by every team. Some of them might need a detailed ones:

- traceability between documents, up to the versions, even up to the paragraph if possible
- or traceability at document level only, pointing to the latest version



- A test shall contain the link to the related documentation + its version



- Every time a document is updated with a functional change, we should indicate in the specification what are the related test version

① Guidelines in practice Requirement Traceability in NDCx

Assumptions to be able to apply guidelines

- Tests
 - Test scripts are managed under ALM, Octane or Git/Bitbucket
 - Tests cases are managed in same locations as for test scripts + Sharepoint + Confluence
 - As these tools are version controlled, the test case content applicable when it has been run can be easily retrieved based on the test execution date
- Product documentation shall be version controlled with information about the update date
- As both Tests and Documentations should be version controlled, the document version corresponding to the test execution date can be easily retrieved

Examples with most used tools

Link from the test to the specifications

With ALM and Octane

Screenshots are from ALM

The link to test plan and/or to applicable specification is written in every test

The screenshot shows the ALM (Application Lifecycle Management) interface. On the left, there's a sidebar with 'Test Strategy' highlighted. The main area displays a list of test cases. One test case is selected, and its details are shown on the right. The 'Description' field contains a link to a specification document: 'https://www.ncc-amadeus.net/confluence/x/L2WVg'. The 'Comments' field also contains a link to the same document.

The screenshot shows the ALM interface with a list of test cases. One test case is selected, and its details are shown on the right. The 'Description' field contains a link to a specification document: 'https://www.ncc-amadeus.net/confluence/x/L2WVg'. The 'Comments' field also contains a link to the same document.

Link from the specifications to the test

In Confluence

Link to test plan, test campaign or to test case can be written in the documentation

- Example for front-end spec: [CR 18770189: SECO:HTL:Offers:Create offers for aggregators and AVH](#)

CR 18770189: SECO:HTL:Offers:Create offers for aggregators and AVH

Created by Egon WOSCHKE, last modified by Oliver GUACCA on Mar 11, 2022

The screenshot shows a Confluence page for a requirement. The page title is 'CR 18770189: SECO:HTL:Offers:Create offers for aggregators and AVH'. The page content includes a table with the following information:

Version	Status	CR	Related JIRA record	Link to test plan	PM	Implementation team
V.1	ON HOLD	CR 18770189 - SECO:HTL:Offers:Create offers for aggregators and AVH	HDU-652 - tasks that include not only new UI development but also general new features for Hotel-Rate	https://www.ncc-amadeus.net/confluence/x/L2WVg	Margareth VAN DEN BOOGER	HOS-ET-HOS-KIE-HTL-OA

The 'Link to test plan' field contains a link to a test plan document: 'https://www.ncc-amadeus.net/confluence/x/L2WVg'.

1. Scope

- Example of back-end spec: <https://amadeus.atlassian.net/wiki/x/faeQeQ>

From test plan, we can access to the related documentation, including specification. See below:

On HOS, spec template has been updated to take into consideration this traceability

- Example: [Flight Facts](#)

...

With Confluence

Example: [Functional Test Plan – Flight Facts for Direct Flight and Change Of Gauge](#)