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# Requirements and Test Management for Jira (RTM)

# Deviniti

We have been cooperating with Atlassian since 2005, and we are a Platinum & Enterprise Solution Partner and a Gold Marketplace Partner in the Ecosystem.

Our certified experts have stepped on a mission to share practical knowledge in implementing projects, as well as drive companies' business results through the use of Atlassian software.

We support both small and large businesses, and we help them at every stage of their development.

# The whole software project in one place

## Intuitive solution for every team

Requirements and Test Management for Jira distinguishes itself from its competitors by being extra user-friendly,  yet advanced and fully functional test management app.  The extension strongly supports Agile workflow by allowing to deliver high quality software faster and more efficiently.

## Consistent testing included in product development

RTM adds Requirements, Test Cases, Test Plans, Test Executions, and Defects modules to Atlassian's Jira (which was destined to be a bug tracking tool to begin with!). See how you can benefit from having a transparent software development process every step on the way, from collecting requirements to going to production.

# Tool for every team member

We know testing is a complex process that involves work of numerous people, including managers, QA team, analysts, testers, and more. Transparent collaboration between all of them is necessary when it comes to releasing a fully functional product.

Whilst creating our app, we did our best to meet the expectations of each group, no matter the level of expertise or the company size. Next slides will show you how each team member can benefit from using Requirements and Test Management for Jira.

# IT Analysts

Requirements management included in the rest of software development makes work of IT Analysts much easier. This functionality along with real-time, understandable reports enables them to stay up-to-date throughout the whole process.

- full traceability every step on the way
- easy on the eye graphs and tables in each report
- exportable testing data

Tool for every team member

# Test Managers

Seamless Jira integration supports transparent project management inside and across the teams. Also, thanks to the possibility of structuring Test Cases and verifying the statuses of their execution, Test Managers are able to efficiently monitor testing progress.

- familiar, Jira-based UI
- tree-structured view for Requirements, Tests, and Defects
- real-time reporting

Tool for every team member

# Testers

All stages from requirements until defects reporting are executed in a single place. Clear, tree-structured view makes it easier for testers to organize their work. What's more, they can benefit from full traceability of relations between the objects.

- requirement-based testing
- comments and attachments added to Test Steps
- connections between the objects presented on the reports, as well as issue screens

Tool for every team member

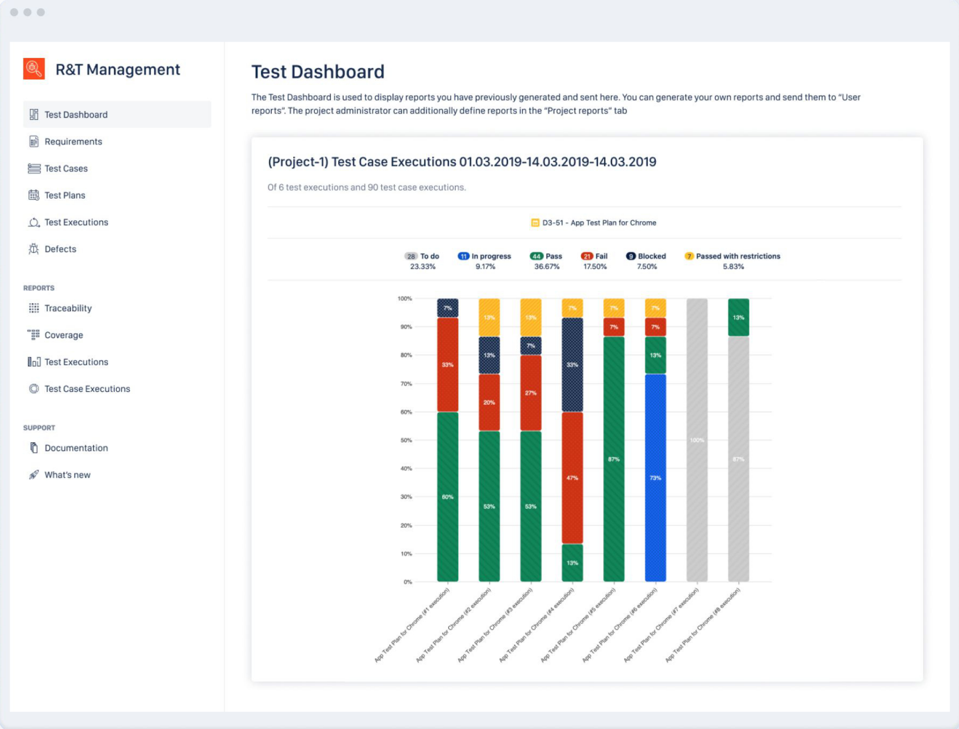
# Jira Admins

Plug-and-play configuration significantly speeds up the implementation process. The app includes built-in issue types for different types of requirements, as well as for the other testing objects. Test dashboards are only possible to edit by admins.

- quick installation
- built-in issue types for all testing objects
- test dashboards only possible to edit by the Admin

# Key benefits

- Plug-and-play configuration
- Support for Agile functionalities - we work on Jira Issues
- Issue type customization
- Same experience on Jira Cloud and Server
- The whole software development process in one place
- Navigation reflects natural process - from requirements through tests and executions to defects
- User Dashboard which allows you to see your test results at a glance
- Import of Tests Cases from other tools and the .CSV files



R&T Management

- Test Dashboard
- Requirements
- Test Cases
- Test Plans
- Test Executions
- Defects

REPORTS

- Traceability
- Coverage
- Test Executions
- Test Case Executions

SUPPORT

- Documentation
- What's new

Test Dashboard

The Test Dashboard is used to display reports you have previously generated and sent here. You can generate your own reports and send them to "User reports". The project administrator can additionally define reports in the "Project reports" tab

(Project-1) Test Case Executions 01.03.2019-14.03.2019-14.03.2019

Of 6 test executions and 90 test case executions.

D3-51 - App Test Plan for Chrome

28 To do 23.33% · 11 In progress 9.17% · 44 Pass 36.67% · 21 Fail 17.50% · 9 Blocked 7.50% · 7 Passed with restrictions 5.83%

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
7%
33%
60%
13%
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20%
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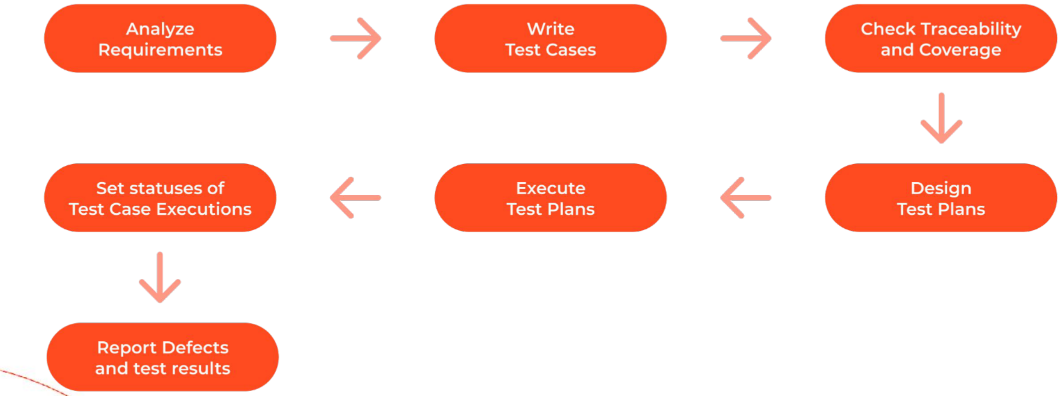
7%
27%
53%
7%
33%
47%
13%
7%
7%
87%
7%
7%
13%
73%
100%
13%
87%
App Test Plan for Chrome (#1 execution)
App Test Plan for Chrome (#2 execution)
App Test Plan for Chrome (#3 execution)
App Test Plan for Chrome (#4 execution)
App Test Plan for Chrome (#5 execution)
App Test Plan for Chrome (#6 execution)
App Test Plan for Chrome (#7 execution)
App Test Plan for Chrome (#8 execution)

Watch video

# How testing process in RTM for Jira looks like?



Analyze Requirements

Write Test Cases

Check Traceability and Coverage

Design Test Plans

Execute Test Plans

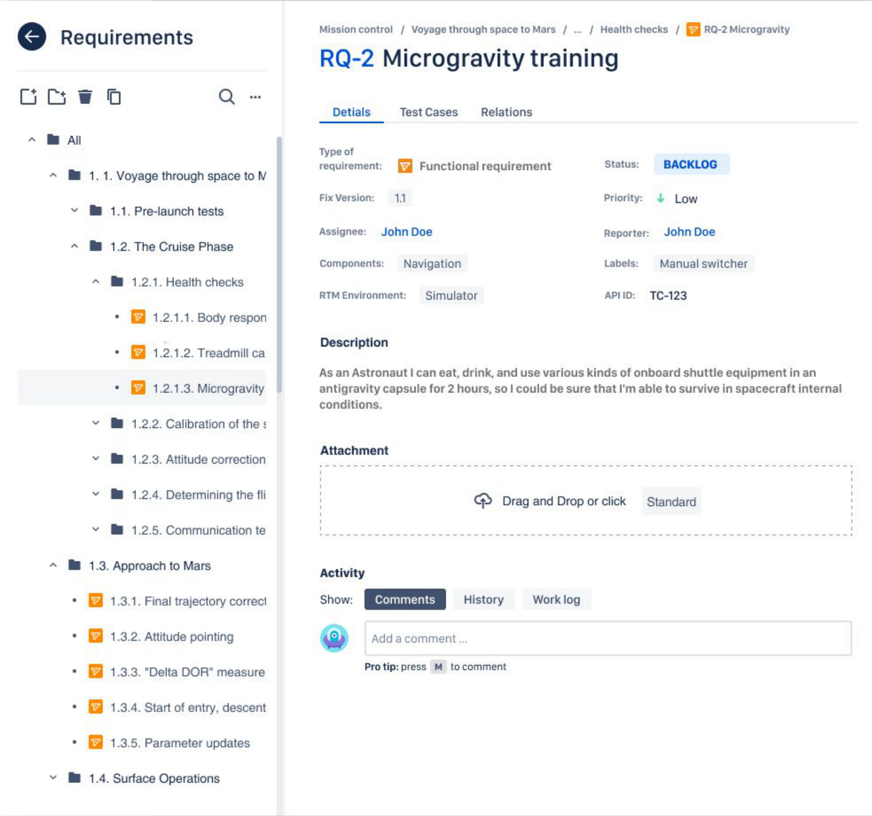
Set statuses of Test Case Executions

Report Defects and test results

Documentation

# Requirements

- Built-in Requirements  management
- Dedicated, customizable issue types and default Jira Issues to choose from
- Tree structured-view with folders and subfolders
- Transparent direct and indirect relations between Requirements and other testing objects
- Test documentation



Requirements

- All
  - 1. 1. Voyage through space to M
    - 1.1. Pre-launch tests
    - 1.2. The Cruise Phase
      - 1.2.1. Health checks
        - 1.2.1.1. Body respon
        - 1.2.1.2. Treadmill ca
        - 1.2.1.3. Microgravity
      - 1.2.2. Calibration of the s
      - 1.2.3. Attitude correction
      - 1.2.4. Determining the fli
      - 1.2.5. Communication te
    - 1.3. Approach to Mars
      - 1.3.1. Final trajectory correct
      - 1.3.2. Attitude pointing
      - 1.3.3. "Delta DOR" measure
      - 1.3.4. Start of entry, descent
      - 1.3.5. Parameter updates
    - 1.4. Surface Operations

Mission control / Voyage through space to Mars / ... / Health checks / RQ-2 Microgravity

RQ-2 Microgravity training

Detials | Test Cases | Relations

Type of requirement: Functional requirement
Status: BACKLOG
Fix Version: 1.1
Priority: Low
Assignee: John Doe
Reporter: John Doe
Components: Navigation
Labels: Manual switcher
RTM Environment: Simulator
API ID: TC-123

Description

As an Astronaut I can eat, drink, and use various kinds of onboard shuttle equipment in an antigravity capsule for 2 hours, so I could be sure that I'm able to survive in spacecraft internal conditions.

Attachment

Drag and Drop or click Standard

Activity

Show: Comments History Work log

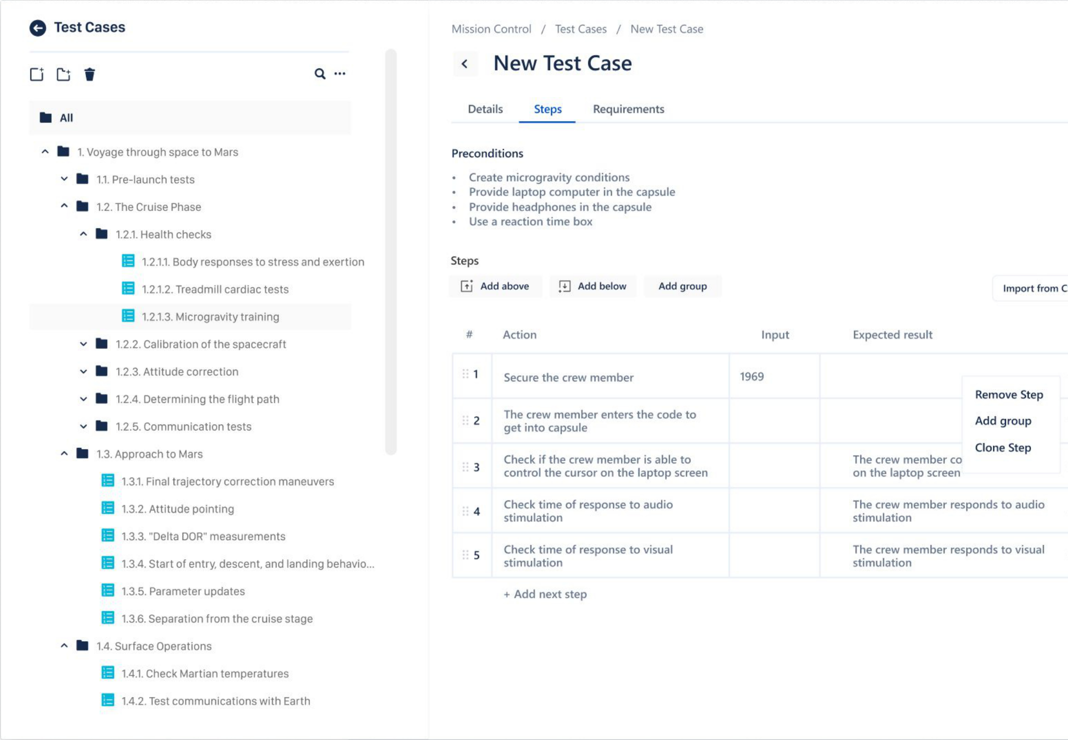
Add a comment ...

Pro tip: press M to comment

Documentation

# Test Cases

- Preconditions included in Test Cases
- Drag & drop list of Test Steps
- Import/export of Test Steps from/to CSV
- Tests based on Requirements for better coverage
- Test Cases can be saved as templates and reused
- Tree-structured view for all testing objects



1. Voyage through space to Mars
1.1. Pre-launch tests
1.2. The Cruise Phase
1.2.1. Health checks
1.2.1.1. Body responses to stress and exertion
1.2.1.2. Treadmill cardiac tests
1.2.1.3. Microgravity training
1.2.2. Calibration of the spacecraft
1.2.3. Attitude correction
1.2.4. Determining the flight path
1.2.5. Communication tests
1.3. Approach to Mars
1.3.1. Final trajectory correction maneuvers
1.3.2. Attitude pointing
1.3.3. "Delta DOR" measurements
1.3.4. Start of entry, descent, and landing behavio...
1.3.5. Parameter updates
1.3.6. Separation from the cruise stage
1.4. Surface Operations
1.4.1. Check Martian temperatures
1.4.2. Test communications with Earth

Mission Control / Test Cases / New Test Case

New Test Case

Details | Steps | Requirements

Preconditions

- Create microgravity conditions
- Provide laptop computer in the capsule
- Provide headphones in the capsule
- Use a reaction time box

Steps

Add above | Add below | Add group

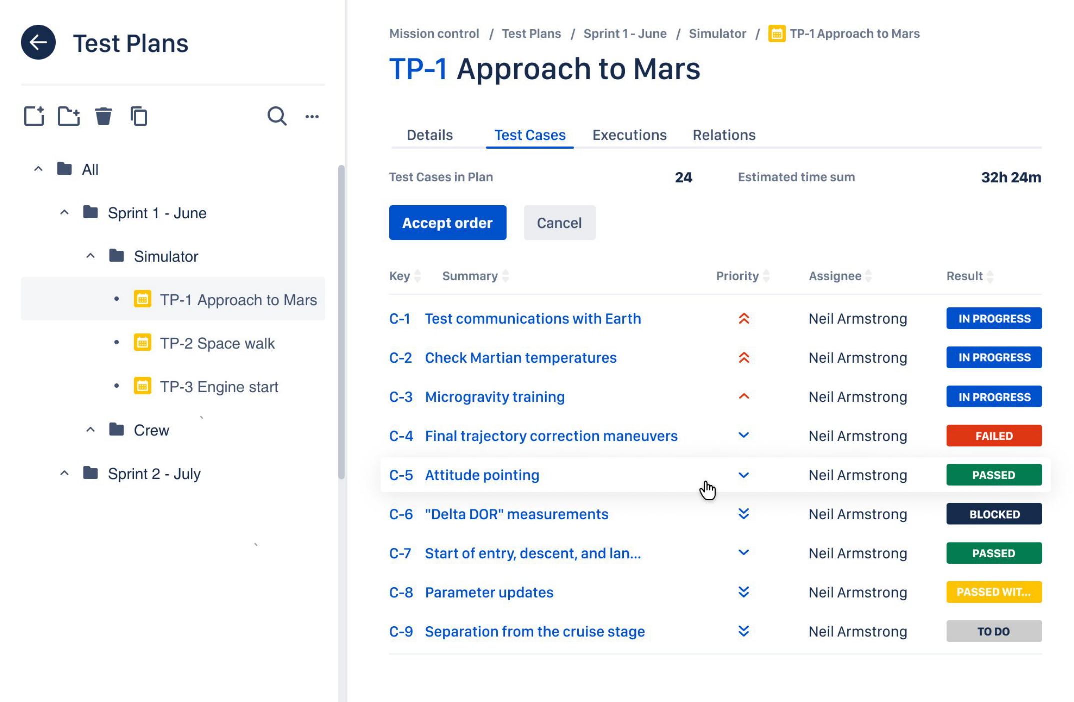
| # | Action | Input | Expected result |
|---|---|---|---|
| 1 | Secure the crew member | 1969 | |
| 2 | The crew member enters the code to get into capsule | | |
| 3 | Check if the crew member is able to control the cursor on the laptop screen | | The crew member co on the laptop screen |
| 4 | Check time of response to audio stimulation | | The crew member responds to audio stimulation |
| 5 | Check time of response to visual stimulation | | The crew member responds to visual stimulation |

+ Add next step

Documentation

# Test Plans

- Designed from previously created Test Cases
- Easy to organize, structure, and execute
- Reusable



## Test Plans

- All
  - Sprint 1 - June
    - Simulator
      - TP-1 Approach to Mars
      - TP-2 Space walk
      - TP-3 Engine start
    - Crew
  - Sprint 2 - July

Mission control / Test Plans / Sprint 1 - June / Simulator / TP-1 Approach to Mars

## TP-1 Approach to Mars

Details | Test Cases | Executions | Relations

Test Cases in Plan 24 | Estimated time sum 32h 24m

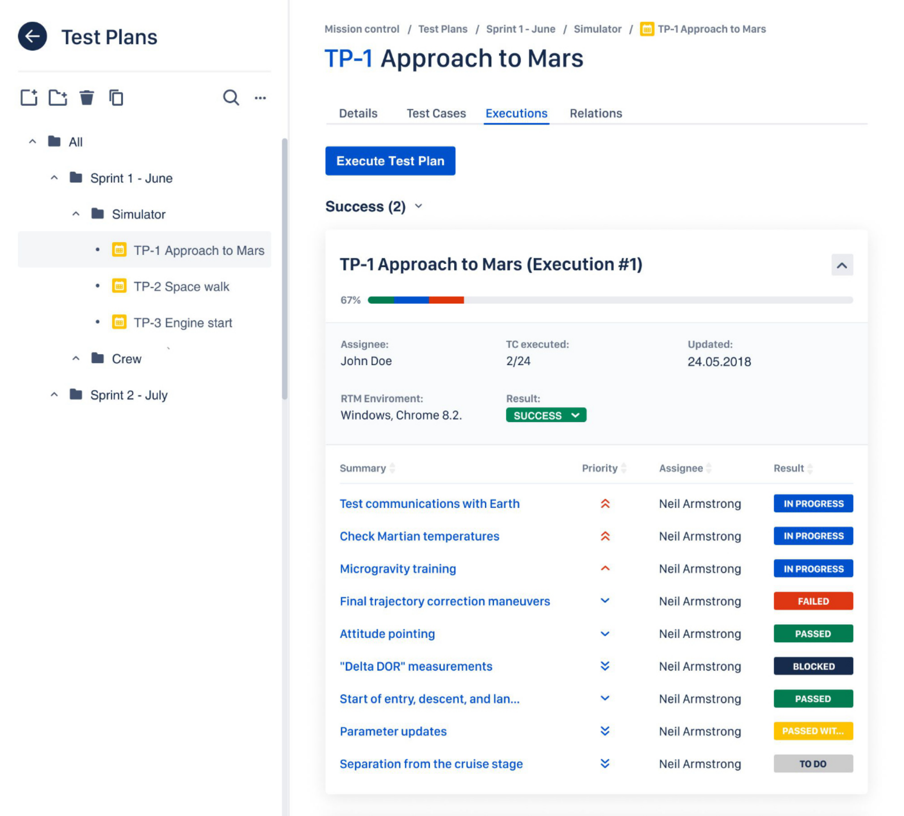
Accept order | Cancel

| Key | Summary | Priority | Assignee | Result |
|---|---|---|---|---|
| C-1 | Test communications with Earth | ⇈ | Neil Armstrong | IN PROGRESS |
| C-2 | Check Martian temperatures | ⇈ | Neil Armstrong | IN PROGRESS |
| C-3 | Microgravity training | ↑ | Neil Armstrong | IN PROGRESS |
| C-4 | Final trajectory correction maneuvers | ↓ | Neil Armstrong | FAILED |
| C-5 | Attitude pointing | ↓ | Neil Armstrong | PASSED |
| C-6 | "Delta DOR" measurements | ⇊ | Neil Armstrong | BLOCKED |
| C-7 | Start of entry, descent, and lan... | ↓ | Neil Armstrong | PASSED |
| C-8 | Parameter updates | ⇊ | Neil Armstrong | PASSED WIT... |
| C-9 | Separation from the cruise stage | ⇊ | Neil Armstrong | TO DO |

Documentation

# Test Executions

- Selection of Environment
- Traceable Test Execution progress
- Failed Test Cases and Defects for a particular Execution visible at a glance



Mission control / Test Plans / Sprint 1 - June / Simulator / TP-1 Approach to Mars

TP-1 Approach to Mars

TP-1 Approach to Mars (Execution #1)

67%

Assignee: John Doe

TC executed: 2/24

Updated: 24.05.2018

RTM Enviroment: Windows, Chrome 8.2.

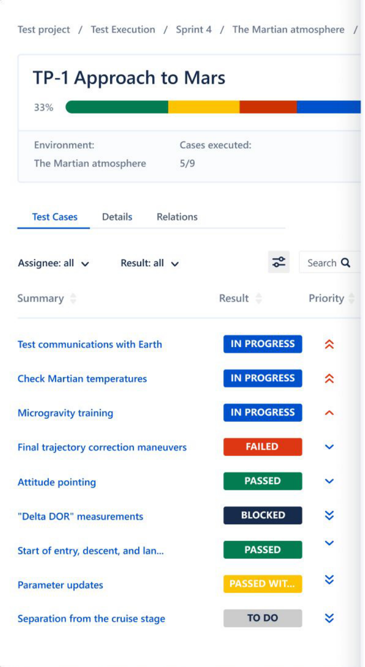
Result: SUCCESS

| Summary | Priority | Assignee | Result |
|---|---|---|---|
| Test communications with Earth | ︽ | Neil Armstrong | IN PROGRESS |
| Check Martian temperatures | ︽ | Neil Armstrong | IN PROGRESS |
| Microgravity training | ︿ | Neil Armstrong | IN PROGRESS |
| Final trajectory correction maneuvers | ﹀ | Neil Armstrong | FAILED |
| Attitude pointing | ﹀ | Neil Armstrong | PASSED |
| "Delta DOR" measurements | ︾ | Neil Armstrong | BLOCKED |
| Start of entry, descent, and lan... | ﹀ | Neil Armstrong | PASSED |
| Parameter updates | ︾ | Neil Armstrong | PASSED WIT... |
| Separation from the cruise stage | ︾ | Neil Armstrong | TO DO |

[Documentation](#)

# Test Case Executions

- Fast Test Plan execution
- Simple Preconditions verification
- Detailed view of all Test Steps with comments and attachments
- Statuses for each step can be set up individually or by bulk edit functionality
- Defects reporting
- Easy navigation between your tests



Test project / Test Execution / Sprint 4 / The Martian atmosphere /

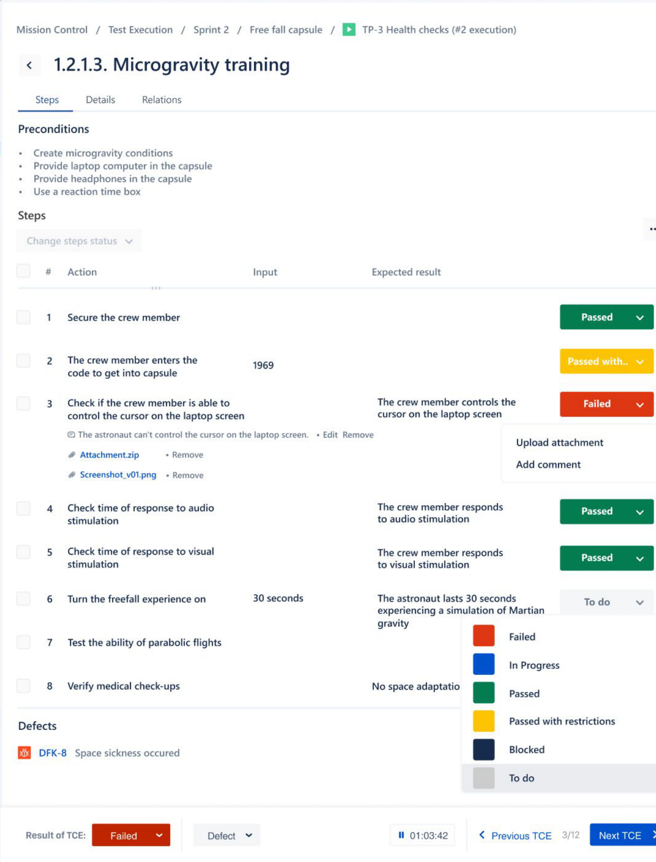
## TP-1 Approach to Mars

33%

Environment: The Martian atmosphere

Cases executed: 5/9

| Summary | Result | Priority |
|---|---|---|
| Test communications with Earth | IN PROGRESS | ⇈ |
| Check Martian temperatures | IN PROGRESS | ⇈ |
| Microgravity training | IN PROGRESS | ↑ |
| Final trajectory correction maneuvers | FAILED | ↓ |
| Attitude pointing | PASSED | ↓ |
| "Delta DOR" measurements | BLOCKED | ⇊ |
| Start of entry, descent, and lan... | PASSED | ↓ |
| Parameter updates | PASSED WIT... | ⇊ |
| Separation from the cruise stage | TO DO | ⇊ |



Mission Control / Test Execution / Sprint 2 / Free fall capsule / TP-3 Health checks (#2 execution)

## 1.2.1.3. Microgravity training

Preconditions

- Create microgravity conditions
- Provide laptop computer in the capsule
- Provide headphones in the capsule
- Use a reaction time box

Steps

| # | Action | Input | Expected result | |
|---|---|---|---|---|
| 1 | Secure the crew member | | | Passed |
| 2 | The crew member enters the code to get into capsule | 1969 | | Passed with.. |
| 3 | Check if the crew member is able to control the cursor on the laptop screen<br>The astronaut can't control the cursor on the laptop screen. • Edit Remove<br>Attachment.zip • Remove<br>Screenshot_v01.png • Remove | | The crew member controls the cursor on the laptop screen | Failed |
| 4 | Check time of response to audio stimulation | | The crew member responds to audio stimulation | Passed |
| 5 | Check time of response to visual stimulation | | The crew member responds to visual stimulation | Passed |
| 6 | Turn the freefall experience on | 30 seconds | The astronaut lasts 30 seconds experiencing a simulation of Martian gravity | To do |
| 7 | Test the ability of parabolic flights | | | |
| 8 | Verify medical check-ups | | No space adaptatio | |

Defects

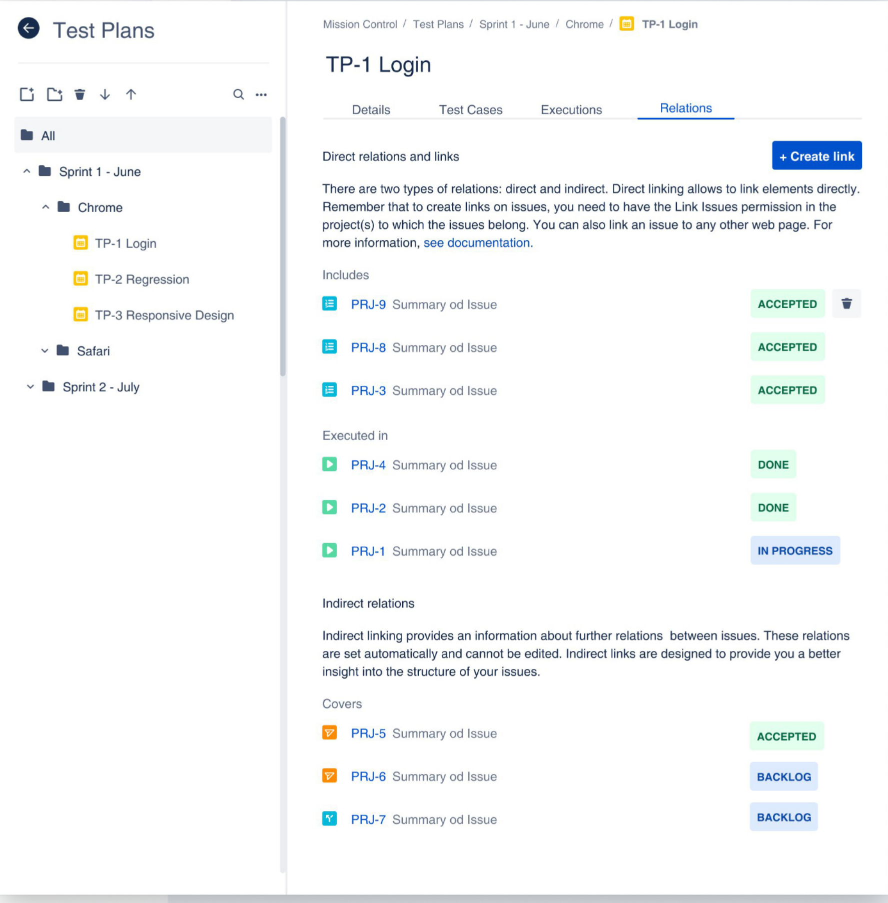
DFK-8 Space sickness occured

Result of TCE: Failed

[Documentation](#)

# Relations

- Full traceability between all testing objects
- Transparent view of even indirect relations, like e.g. Requirements and Test Plans
- Connections between related issues  can be verified  on the Relations tab or on the dedicated report at any point of the process
- Links from testing objects managed inside the app created by default
- Seamless linking to  Jira issues or weblinks



Test Plans

- All
- Sprint 1 - June
  - Chrome
    - TP-1 Login
    - TP-2 Regression
    - TP-3 Responsive Design
  - Safari
- Sprint 2 - July

Mission Control / Test Plans / Sprint 1 - June / Chrome / TP-1 Login

TP-1 Login

Details | Test Cases | Executions | Relations

Direct relations and links

+ Create link

There are two types of relations: direct and indirect. Direct linking allows to link elements directly. Remember that to create links on issues, you need to have the Link Issues permission in the project(s) to which the issues belong. You can also link an issue to any other web page. For more information, see documentation.

Includes

| | |
|---|---|
| PRJ-9 Summary od Issue | ACCEPTED |
| PRJ-8 Summary od Issue | ACCEPTED |
| PRJ-3 Summary od Issue | ACCEPTED |

Executed in

| | |
|---|---|
| PRJ-4 Summary od Issue | DONE |
| PRJ-2 Summary od Issue | DONE |
| PRJ-1 Summary od Issue | IN PROGRESS |

Indirect relations

Indirect linking provides an information about further relations  between issues. These relations are set automatically and cannot be edited. Indirect links are designed to provide you a better insight into the structure of your issues.

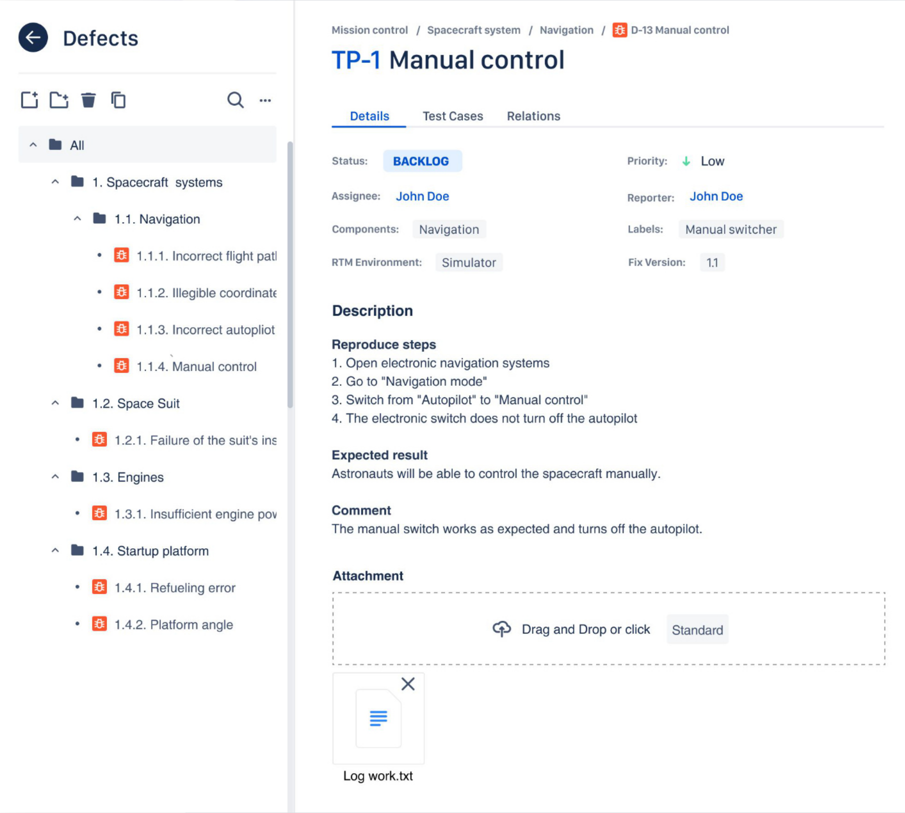
Covers

| | |
|---|---|
| PRJ-5 Summary od Issue | ACCEPTED |
| PRJ-6 Summary od Issue | BACKLOG |
| PRJ-7 Summary od Issue | BACKLOG |

Documentation

# Defects

- Traceable from the level of Requirements
- Connected to related Test Cases
- Categorized in folders and subfolders
- Easy to associate with Test Executions
- Transparent, up-to-date reports



Defects

- All
  - 1. Spacecraft systems
    - 1.1. Navigation
      - 1.1.1. Incorrect flight patl
      - 1.1.2. Illegible coordinate
      - 1.1.3. Incorrect autopliot
      - 1.1.4. Manual control
    - 1.2. Space Suit
      - 1.2.1. Failure of the suit's ins
    - 1.3. Engines
      - 1.3.1. Insufficient engine pov
    - 1.4. Startup platform
      - 1.4.1. Refueling error
      - 1.4.2. Platform angle

Mission control / Spacecraft system / Navigation / D-13 Manual control

## TP-1 Manual control

Details | Test Cases | Relations

| | | | |
|---|---|---|---|
| Status: | BACKLOG | Priority: | Low |
| Assignee: | John Doe | Reporter: | John Doe |
| Components: | Navigation | Labels: | Manual switcher |
| RTM Environment: | Simulator | Fix Version: | 1.1 |

**Description**

**Reproduce steps**

1. Open electronic navigation systems
2. Go to "Navigation mode"
3. Switch from "Autopilot" to "Manual control"
4. The electronic switch does not turn off the autopilot

**Expected result**

Astronauts will be able to control the spacecraft manually.

**Comment**

The manual switch works as expected and turns off the autopilot.

**Attachment**

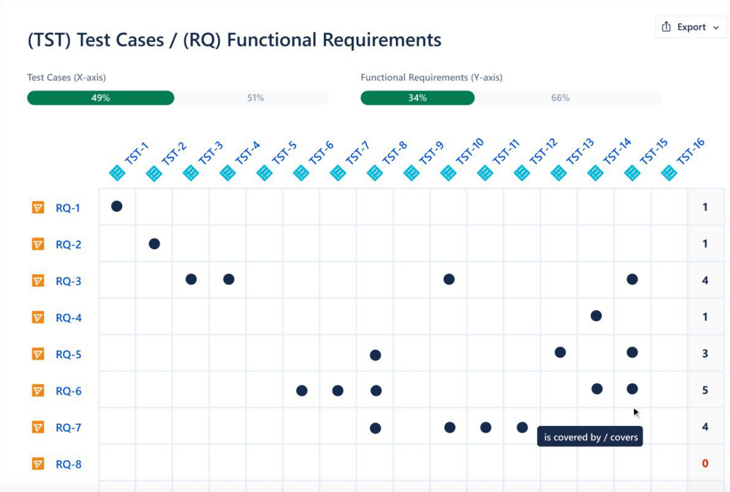
Drag and Drop or click Standard

Log work.txt

Documentation

# Traceability & Coverage

- Traceability Matrix for measurable relations between any two kinds of issue types
- Clear and understandable connections between Requirements and Tests
- The Requirements Coverage report presenting end-to-end relations from Requirement to possible Defect
- Gathered data is easily exportable  to CSV or PDF



Export

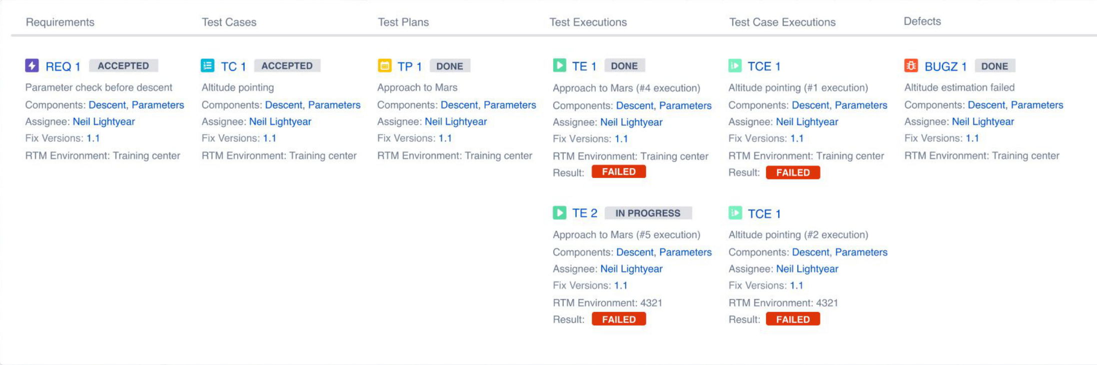
(TST) Test Cases / (RQ) Functional Requirements

Test Cases (X-axis) 49% 51%

Functional Requirements (Y-axis) 34% 66%

| | TST-1 | TST-2 | TST-3 | TST-4 | TST-5 | TST-6 | TST-7 | TST-8 | TST-9 | TST-10 | TST-11 | TST-12 | TST-13 | TST-14 | TST-15 | TST-16 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RQ-1 | ● | | | | | | | | | | | | | | | | 1 |
| RQ-2 | | ● | | | | | | | | | | | | | | | 1 |
| RQ-3 | | | ● | ● | | | | | | ● | | | | | ● | | 4 |
| RQ-4 | | | | | | | | | | | | | | ● | | | 1 |
| RQ-5 | | | | | | | | ● | | | | | ● | | ● | | 3 |
| RQ-6 | | | | | | ● | ● | ● | | | | | | ● | ● | | 5 |
| RQ-7 | | | | | | | | ● | | ● | ● | ● | | | | | 4 |
| RQ-8 | | | | | | | | | | | | | | | | | 0 |

is covered by / covers



Requirements

REQ 1 ACCEPTED
Parameter check before descent
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: Training center

Test Cases

TC 1 ACCEPTED
Altitude pointing
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: Training center

Test Plans

TP 1 DONE
Approach to Mars
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: Training center

Test Executions

TE 1 DONE
Approach to Mars (#4 execution)
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: Training center
Result: FAILED

TE 2 IN PROGRESS
Approach to Mars (#5 execution)
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: 4321
Result: FAILED

Test Case Executions

TCE 1
Altitude pointing (#1 execution)
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: Training center
Result: FAILED

TCE 1
Altitude pointing (#2 execution)
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: 4321
Result: FAILED

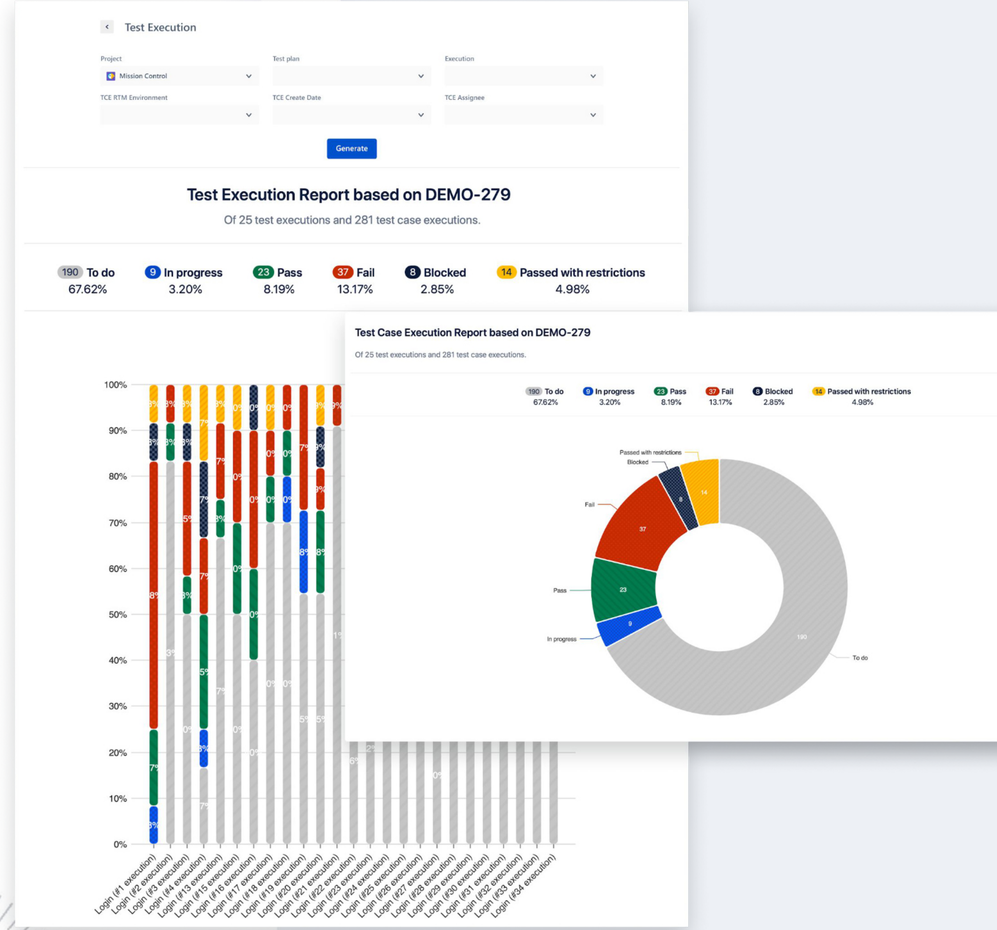
Defects

BUGZ 1 DONE
Altitude estimation failed
Components: Descent, Parameters
Assignee: Neil Lightyear
Fix Versions: 1.1
RTM Environment: Training center

[Documentation](#)

# Test reports

- Bars and pie charts to illustrate your Test Executions
- Flexible filters to provide you with exactly the information you need
- Understandable for all the team members
- Easy to compare and present to the stakeholders
- Exportable to CSV or PDF
- Real-time and reusable



Test Execution

Project: Mission Control

Test plan

Execution

TCE RTM Environment

TCE Create Date

TCE Assignee

Generate

Test Execution Report based on DEMO-279

Of 25 test executions and 281 test case executions.

| 190 To do | 9 In progress | 23 Pass | 37 Fail | 8 Blocked | 14 Passed with restrictions |
|---|---|---|---|---|---|
| 67.62% | 3.20% | 8.19% | 13.17% | 2.85% | 4.98% |

Test Case Execution Report based on DEMO-279

Of 25 test executions and 281 test case executions.

| 190 To do | 9 In progress | 23 Pass | 37 Fail | 8 Blocked | 14 Passed with restrictions |
|---|---|---|---|---|---|
| 67.62% | 3.20% | 8.19% | 13.17% | 2.85% | 4.98% |

# Roadmap

Our test management tool is constantly developed and improved. We invite you to check out RTM’s roadmap.
Below you can see what we’re working on right now and what are our plans for the nearest future:

### Q3 2020

REST API which will allow you to integrate with external tools like Jenkins

### Q4 2020

Fields customisation on RTM create, edit and view screens

### Q1 2021

Generating requirement documentation based on tree structure

# Why choose RTM for Jira?

| | Adaptavist TM4J for Jira | XRay for Jira | Zephyr for Jira | RTM |
|---|---|---|---|---|
| **PROS** | • Test automation support<br>• Detailed permissions<br>• Possibility of grouping and searching objects by Environments and Labels<br>• Test case versioning | • Test automation support<br>• Requirements management included<br>• Mobile app | • Test automation support<br>• Test reporting dashboard<br>• Allows creating custom fields in Execution and Test Step modules<br>• Identical on Server and Cloud | • Includes advanced requirements management<br>• Plug and play configuration<br>• Jira-compatible interface<br>• High performance and scalability<br>• Transparent tree-structured views<br>• Intuitive process<br>• High-grained relations between all objects<br>• Flexible reports<br>• Identical on Server and Cloud |
| **CONS** | • Objects aren’t Jira issue types<br>• Relations between objects only possible via web links<br>• Unintuitive process<br>• Incomplete, divided reports | • Unclear configuration<br>• Navigation on the default issue view<br>• Confusing process<br>• Complicated reports<br>• Decreased performance at scale | • No requirements management<br>• Interface of an external tool<br>• One issue type for all kinds of objects<br>• Navigation through the Issue Navigator<br>• Decreased performance at scale | • No test automation (in progress)<br>• No cross-project testing (in-progress) |

# Pricing

| | | | | | | |
|---|---|---|---|---|---|---|
| **CLOUD** | up to 10 users<br>**$10**<br>per month | 20 users<br>**$40**<br>per month | 50 users<br>**$100**<br>per month | 75 users<br>**$150**<br>per month | 100 users<br>**$200**<br>per month | 200 users & up<br>**Additional pricing details** |
| **SERVER** | 10 users<br>**$10**<br>per year | 25 users<br>**$300**<br>per year | 50 users<br>**$800**<br>per year | 100 users<br>**$2,000**<br>per year | 250 users<br>**$4,000**<br>per year | 500 users & up<br>**Additional pricing details** |
| **DATA CENTER** | 50 users<br>**$800**<br>per year | 100 users<br>**$2,000**<br>per year | 250 users<br>**$4,000**<br>per year | 500 users<br>**$6,000**<br>per year | 750 users<br>**$7,000**<br>per year | 1000 users & up<br>**Additional pricing details** |

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*Turning Discovery Into Health*

# Additional materials

**Ebook:**

- RTM ebook

**Youtube:**

- Requirements and Test Management for Jira
- RTM for Jira tutorial #1: testing in Jira Software
- RTM for Jira tutorial #2: requirements in Jira

**Webinar:**

- Investigate requirements and manage software tests right inside your Jira

**Articles:**

- RTM by Deviniti vs TM4J by Adaptavist
- RTM vs Zephyr
- Response to testing challenges
- Keep track of testing progress
- Requirements Traceability Matrix
- Excel or Jira - where to test?
- 4 best practices of test case management in Jira
- Why switch from TestRail to embedded testing with RTM for Jira?
- Requirements management in Jira 101: the basics

# Contact me

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