

VOTER

First Steps User's Guide

This user's guide works you through downloading and installing TTworkbench, as well as through configuring and running the test cases of VOTER, the EUROCONTROL VoIP in ATM Test Suite

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For a successful proceeding please follow the instructions step by step!

If you need any assistance, please contact Testing Technologies' customer care department:

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1 REQUIREMENTS

Operating Systems: Microsoft Windows XP, Vista, Windows 7, Windows 8
Red Hat Enterprise Linux (GTK, x86-32, x86-64)
Fedora (GTK, x86-32, x86-64)
SUSE Linux (GTK, x86-32, x86-64)

Java 2 Platform (JDK): Version J2SE 6.0 (1.6.x) – Download at
www.oracle.com/technetwork/java/javase/downloads/index.html

Memory: 2 GB (4 GB recommended)

Please note that we strongly recommend using the above Java JDK. With the OpenJDK/IcedTea for Linux the TTworkbench license will **not work correctly**.

Reference ID and License File

Before you download VOTER binaries (EUROCONTROL VoIP in ATM Test Suite), TTworkbench (the Test Platform required to run VOTER) and TTsuite-VOTER (the adaptation required to run VOTER), please make sure you have received a valid Reference ID and a license file. Otherwise please contact our sales team at eurocontrol-support@testingtech.com.

2 DOWNLOAD

- Step 1** Go to Testing Technologies' download portal www.testingtech.com/support/downloads.php.
- Step 2** Select the latest version of TTworkbench (Express, Basic or Professional) for your platform.
- Step 3** Enter your **Download Reference ID** (valid for TTworkbench, TTsuite-VOTER & VOTER binaries).
- Step 4** Download the file and save it in your favored directory.
Please note: With the Linux version of Microsoft Internet Explorer, the browser saves the **.jar** file as **.zip**. Just rename it back to **.jar**.

- Step 5** Go to Testing Technologies' download portal www.testingtech.com/support/downloads.php. Repeat steps 2-4 to download TTsuite-VOTER (TTsuite-VOTER_xxx_archived-site.zip).
- Step 6** Got to the EUROCONTROL download portal www.testingtech.com/support/partner/EUROCONTROL/download_portal.php. Repeat steps 2-4 to download VOTER (VOTER_xxx.zip).
- Step 7** Save the license file **license.dat** in your favored directory.
- Step 8** Optional: If you need to execute the test cases *_COS1, please download a jpacp installer from a reliable source.

3 INSTALLATION

3.1 TTworkbench

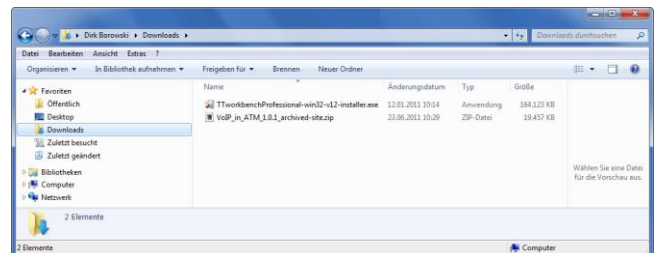
Step 1

Windows Platform:

Double click on **TTworkbench-xxx-installer.exe** (to be found on desktop or selected directory).

Linux Platform:

Use command line
java-jar TTworkbench-xxx-installer.jar

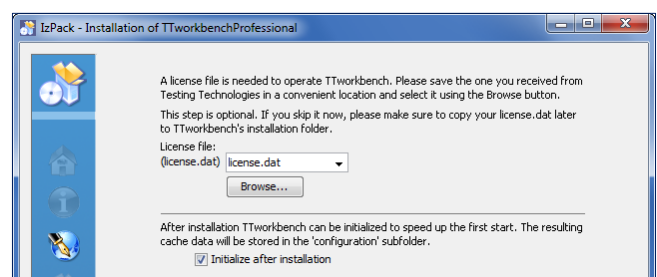


Step 2

Follow the pop up installation wizard.

On request, browse for the valid license file **license.dat**, already saved in your favored directory.

(VOTER Test Suite and TTworkbench require a **valid license file** for execution, which was sent to you by mail.)

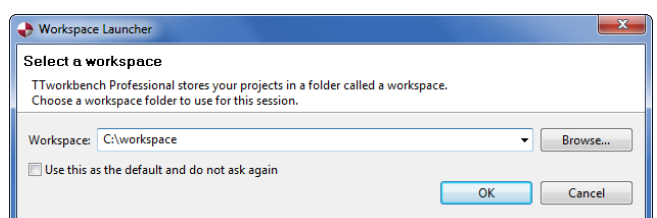


Step 3

Start TTworkbench from created desktop icon or menu entry.

Step 4

Start a new workspace by accepting the default workspace location on request or choose an existing one.



3.2 VOTER Test Suite

Step 5

In the TTworkbench menu, click on menu item *Help* → *Install New Software...*

Step 6

Click *Add...* → *Archive*.

Choose the downloaded installation file **TTsuite-VOTER_xxx_archived-site.zip**.

Click the check box with Test Suites, press *Next* → *Finish*.

Accept the terms of license agreements. Finish and confirm to restart TTworkbench.

Step 7

After restart, please import the installed Test Suite.

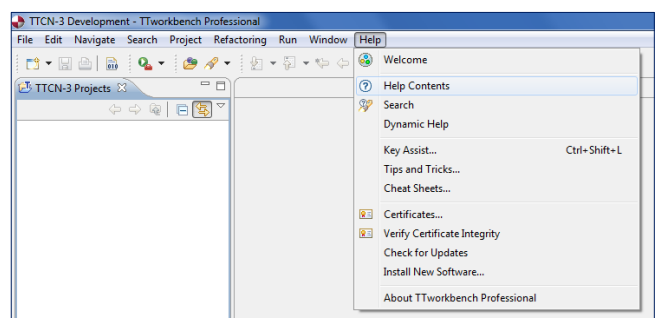
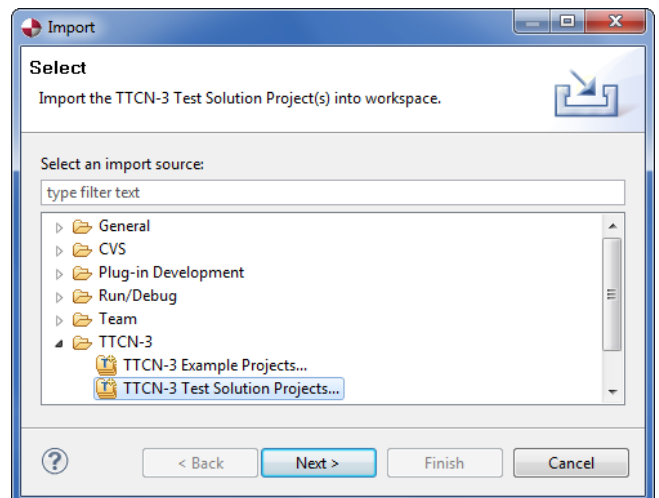
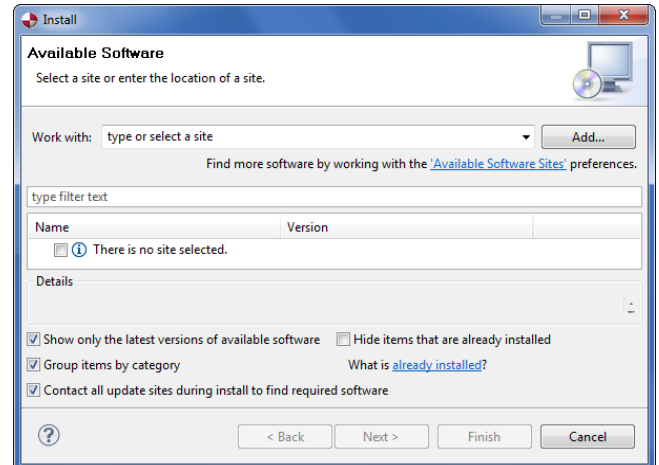
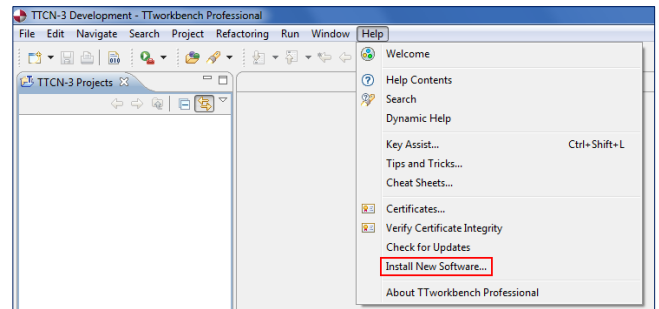
Close the welcome tab. In the project view, just click on the right mouse button, go to menu:

File → *Import* → *TTCN-3* → *TTCN-3 Test Solution Projects* → *Select the installed Test Suite* → *Finish*.

Find further details in the built-in Users Guide: *Help* → *Help Contents* → *Testing Tech TTsuite-VOTER*.

Step 8

Unzip the **VOTER_xxx.zip** file. Copy the **ttn3build** folder. Open the **VOTER** folder in the Package Explorer (TTCN-3 Development Perspective). Paste the ttn3folder into the root of the VOTER folder.



Step 9 (Optional)

If you need to execute the test cases *_COS1, please install jpacp with the downloaded installer.

Further details about installation you can find in the integrated Users Guide.

Click on: [Help](#) → [Help Contents](#) → [Testing Tech TTsuite-VOTER](#).

4 RUNNING MY FIRST TEST CASE

Step 1

Open the **VOTER_xxx** folder in the Package Explorer (TTCN-3 Development Perspective).

Step 2

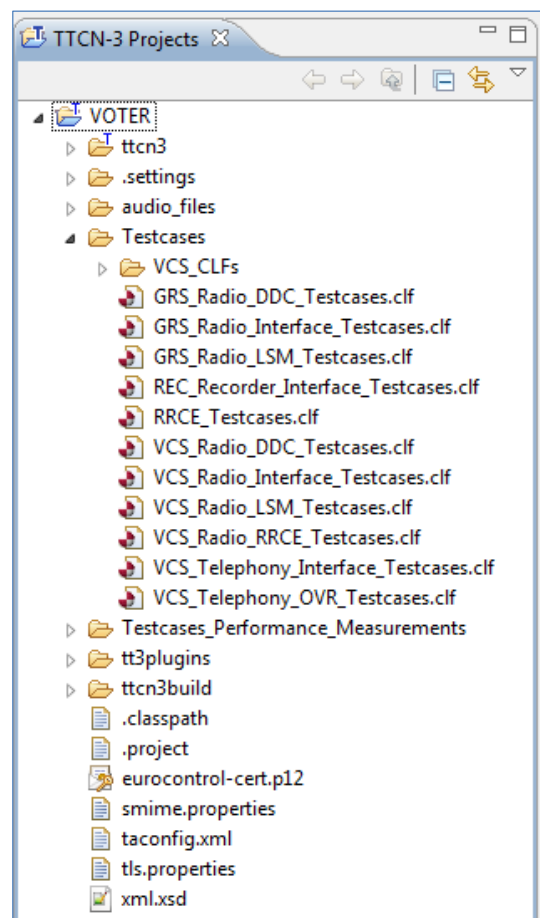
Open the folder **Testcases** and double click on the test campaign loader file

xxx.clf (with the icon ).

(The perspective will automatically switch into the TTCN-3 Execution Management.)

Step 3

Start your IUT.

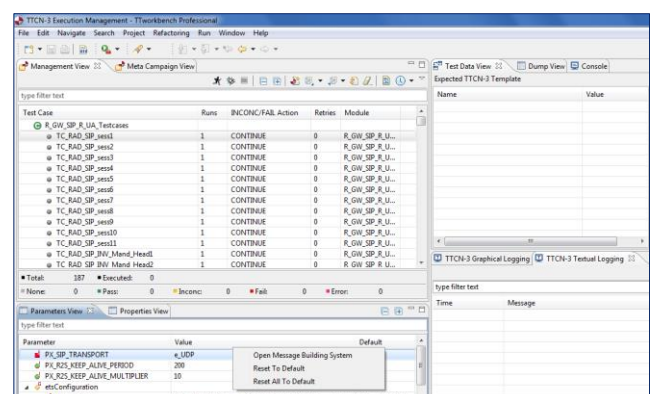


Step 4

Click on the test campaign name to edit the parameters in the Parameter View (below Management View).

For configuration details please refer to Chapter "5. Parameterization".

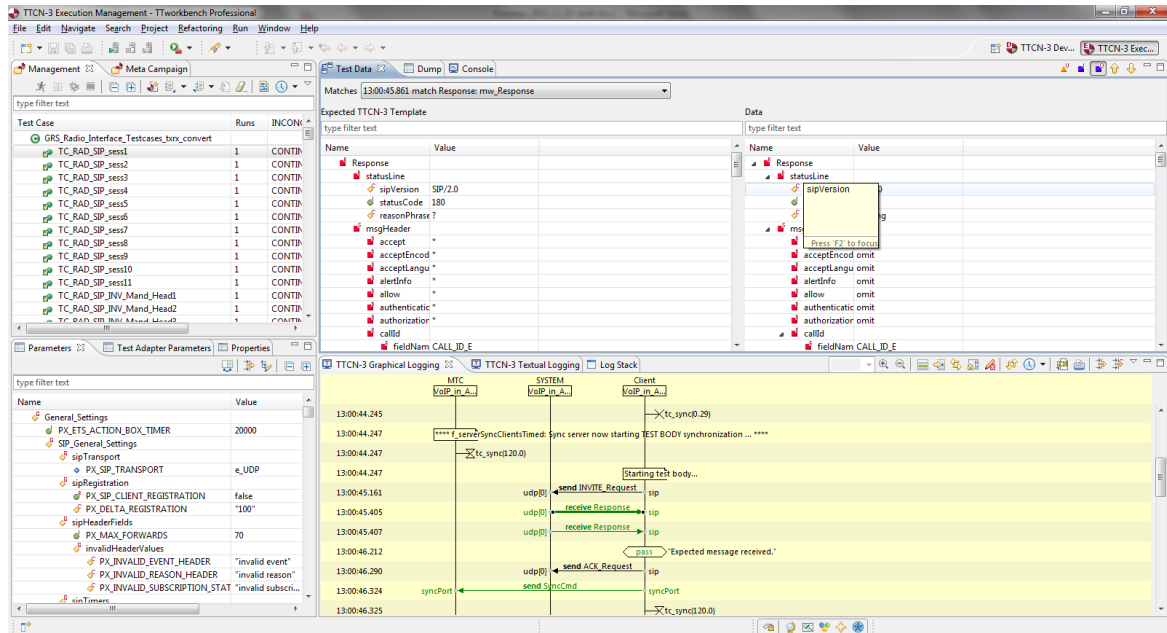
Parameters are configured with default value. Please use MBS (Message Building System) to change the values.



Step 5

Execution

Select one test case by single click and press the Execute tests button .



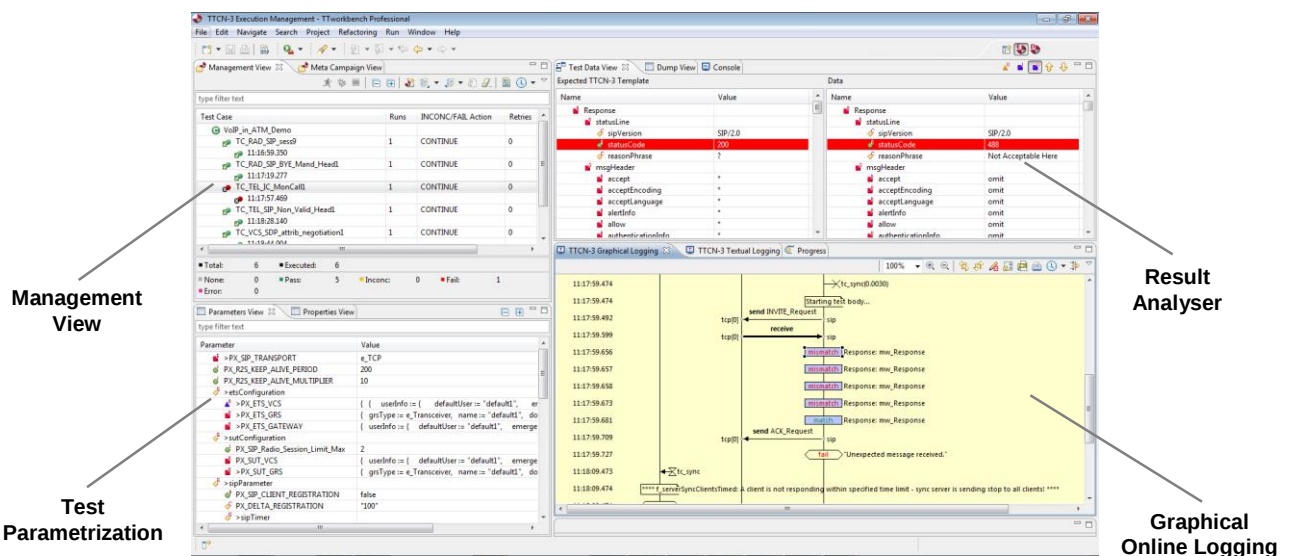
Please find further details under [Help](#) → [Help Contents](#) → [Testing Tech TTsuite-VOTER](#).

4.1 Analysis

When you click on the TTCN-3 Graphical Logging tab you see the results of the execution as graphical output.

A single click on a “send” message arrow provides further details of the TTCN-3 template representation in the Test Data View. Double click on “send” and “receive” arrows for a coding in the Dump View.

A single click on a “match” or “mismatch” box shows you the received message compared to the expected TTCN-3 template. Mismatched values are marked red.

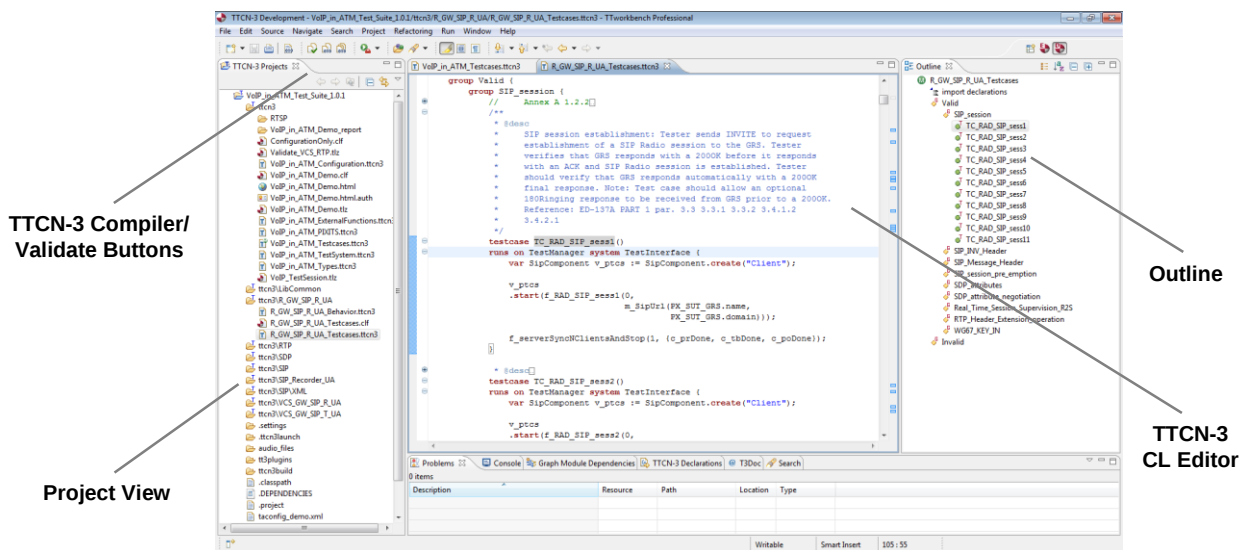


6 DETAILS

6.1 Core Language Editor (CL Editor)

Each TTCN-3 file is view- and editable by double clicking in the CL Editor. As shown in Step 1 of “4. Running My First Test Case” you find the TTCN-3 source code (*.ttcn3) in folder **ttcn3**.

After opening the files, the source code will be syntactically checked and highlighted. In addition, an outline will be generated automatically and the go-to-declaration feature will be enabled.



6.2 TTthree (TTCN-3 Compiler)

For recompiling all TTCN-3 files, please open the main module (with the icon ) in the CL Editor by double click. Press the **Rebuild button** . After recompilation follow Step 2 of “4. Running My First Test Case”.

NOTE! Compilation is only necessary if some test cases are changed or some new one is created. Otherwise, the generated *.jar files from TTCN-3 source are already available for execution.

6.3 TTman (Test Execution Management)

In order to execute test cases and configure parameters, the CLF has to be loaded into the Test Execution Management.

In **Testcases** and **Testcases_Performance_Measurements**, you will find at least one CLF file (with the icon ). It contains all the test cases, which are organized in specific group structures.

NOTE! You are able to execute all test cases **only** if you have purchased the test suite. With your evaluation license file you may only run some test cases for evaluation.

Further details you can find in the integrated Users Guide, Chapters “Using TTworkbench CL Editor”, “Using TTworkbench TTthree” and “Using TTworkbench TTman”. Click on *Help* → *Help Contents* → *Testing Tech TTworkbench Users Guide*.

7 APPENDIX

Acronyms

CL Editor	Core Language Editor	OS	Operating System
CLF	Campaign Loader File	SUT	System Under Test
IUT	Implementation Under Test	TLZ	Test Logging Zip File
MBS	Message Building System		

Notes

This document is subject to change without notice.

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