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尊敬的客户：

自动化测试平台 [TTworkbench](#) 21 版本于 2015 年 11 月 23 日发布。21 版本发布主要目的是维护和增强稳定性。

同时发布的还有 [Selenium](#) 插件，[Selenium 插件](#)使应用 [TTCN-3](#) 创建基于浏览器（browser-based）的回归测试变得简单。另外，21 版本的运行时界面也支持 C# 开发 dll 的调用，方便用户开发中应用更多的 .net 资源开发。

请注意：

在升级您的 TTworkbench 版本时不要忘记升级您的插件（[TTplugins](#)）。
[TTworkbench](#) 21 版本兼容的插件已经可以下载了。

What's New?

General

- 新增功能按钮 "Generate Test Case List" 在工程上生成 Testcases.xml 文件，枚举所有可运行（已编译）的测试例（模块，名称，描述）
- TTCN Library 新增计算相对的、绝对的以及规范的文件和文件夹路径功能

TTCN-3 Core Language Editor (CL Editor)

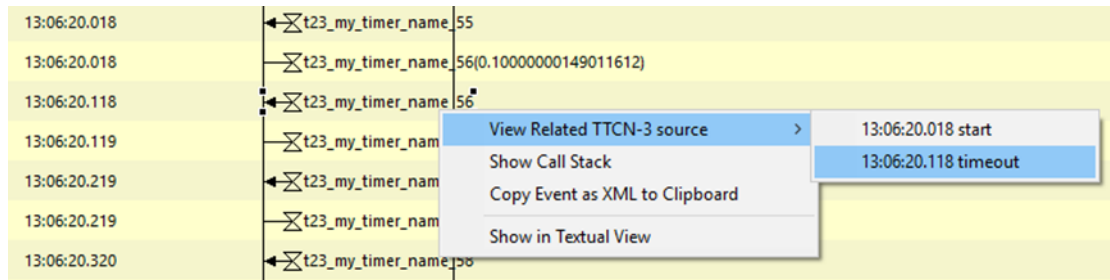
- TTCN-3 open type search dialog (java class search equivalent) accessible via CTRL+ALT+T when editing TTCN-3 source files

TTCN-3 Compiler (TTthree)

- Compilation performance enhancements for "Build" (we recommend using Java 8 Update 60 or higher)
- Major improvements for advanced parameterization, assignment checking
- Optimizations in generated code to increase runtime performance

Test Execution (TTman)

- New! TCI, TRI/XTRI, TRI RT/XTRI RT support for C#
- Local timer names are now displayed in the log views
- Log views now keep the links between all timer events: start, stop, timeout; right click on an event shows related timer events



- TTmanServer stability enhancements
- Map View now caches OpenStreetMap data; enables to work offline after the data was cached

Codec Generator

- Support for generic type systems
- Error handling provides message position and message-structure-path of decode errors
- Little-endian encoding support for byte aligned integers

New! TTplugin Selenium

- Creating browser-based regression automation suites and tests
- Increased automation grade for test suites where interaction with web interfaces is required
- Support for multiple browser instances by using one TTCN-3 port per instance
- No Java/JavaScript coding effort
- For more information see [TTPlugin-Selenium](#)

TTplugin Ethernet

- **New!** VLAN support
 - VLAN Port Filter adds the support of tagged virtual LANs (VLAN) for the Ethernet Port Plugin based on IEEE 802.1Q/802.1ad
 - Built-in Example_Ethernet_VLAN shows how the VLAN Port Filter is working and how to configure it
- Now supports TTCN-3 RT

Deprecation Notice



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Support for Java 6 will be terminated with the next TTworkbench release. It is recommended to start using TTworkbench with Java 8.

Solved Issues

The following list shows bug IDs of all issues solved within TTworkbench 21. You might check your conversation with our support team for references.

2427, 4457, 4803, 5905, 5991, 6045, 6066, 6074, 6153, 6179, 6191, 6223, 6225, 6262, 6301, 6314, 6348, 6355, 6372, 6384, 6389, 6405, 6409, 6419, 6432, 6454, 6455, 6464, 6466, 6483, 6489, 6496, 6503, 6523, 6525, 6528, 6529, 6531, 6537, 6542, 6547, 6548, 6549, 6554, 6556, 6560, 6561, 6563, 6564, 6565, 6569, 6570, 6571, 6578, 6582, 6583, 6591, 6592, 6594, 6599, 6600, 6604, 6605, 6610, 6611, 6620, 6621, 6624, 6625, 6628, 6634, 6635, 6639, 6640, 6641, 6642, 6643, 6652, 6655, 6656, 6659, 6661, 6664, 6671, 6673, 6674, 6675, 6676, 6680, 6686, 6688, 6689, 6690, 6691, 6692, 6695, 6696, 6697, 6699, 6707, 6708, 6711, 6712, 6715, 6716, 6719, 6721, 6723, 6731, 6733, 6734, 6735, 6736, 6738, 6740, 6741, 6742, 6745, 6749, 6757, 6759, 6760, 6763, 6765, 6767, 6768

升级 TTworkbench Express/Basic/Professional

TTworkbench 下载链接 www.testingtech.com/support/downloads.php. 打开连接后, 输入你的 Reference ID。如果您还没有 Reference ID, [请联系我们](mailto:sales@testingtech.com.cn) sales@testingtech.com.cn。

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