

AutoTE

friendly continuous integration QA test server
with support



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What is this presentation about

- **FIRST LOOK at AutoTE**
 - what is it, what you get
- **WHY DO YOU WANT AutoTE**
 - from QA/developer, your customers point-of-view
- **CASE STUDIES**



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First look – what you get

- **QA know-how**
- **automated running of**
 - unit/component/integration/regression/acceptance tests
 - verifiers/validators
 - static/dynamic analysers, profilers/code coverage
 - stability/security/UI tests



First look – what you get

- semi-automated **problem description**
- **history**
- **easily extensibility** by your own programmers
- more **effective** and **happy** QAs



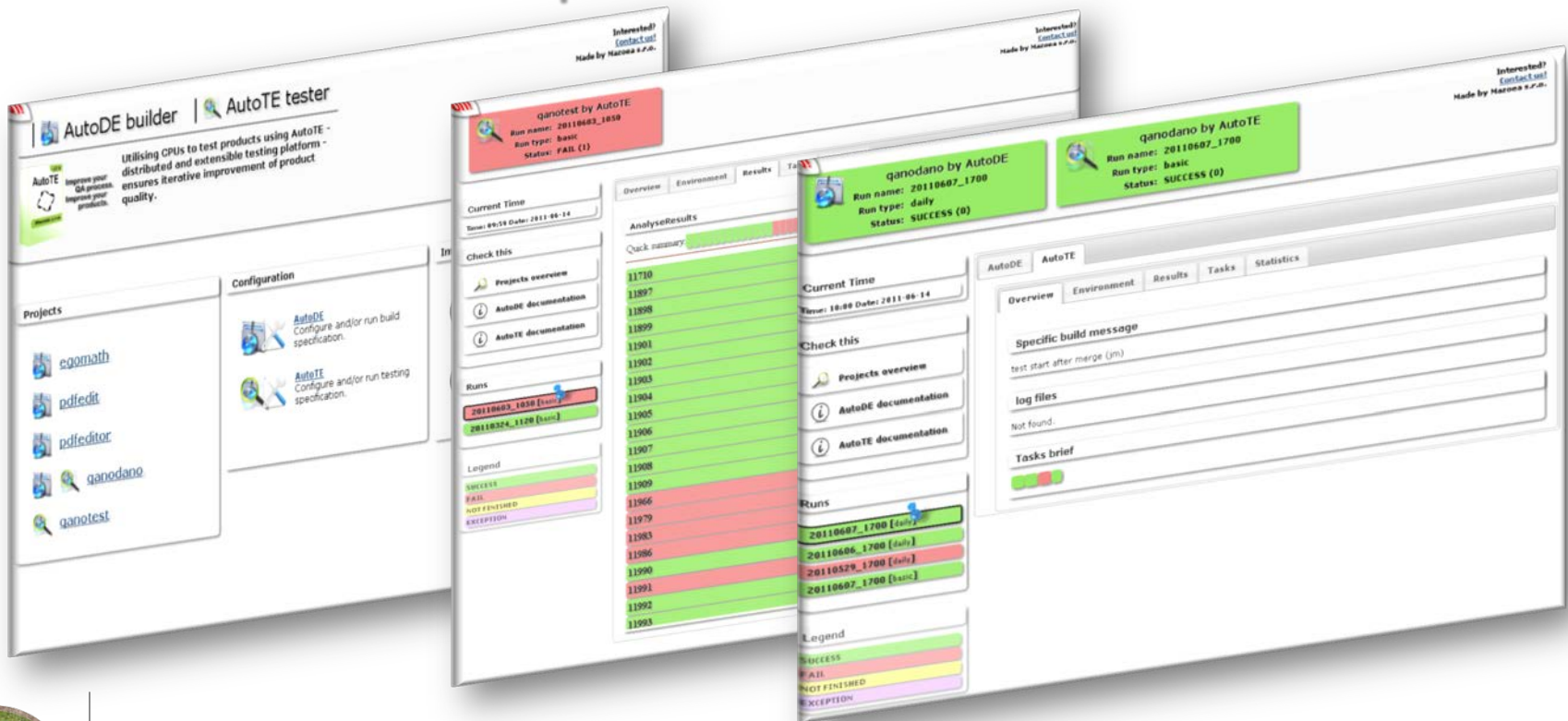
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First look – what you can get 1

- test results integrated with AutoDE
- test results in separate web interface



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Important details

- you do **not get** fully automated QA test department
 - not possible, not reasonable
- you do get **one of several** possible scenarios (see next slides)
- **AutoTE** can be used independently of **AutoDE**
- it is **not reasonable** to test everything all the time
 - focus on testing important aspects/features/tools
 - we can give you **our expertise** and **together** create a test road plan



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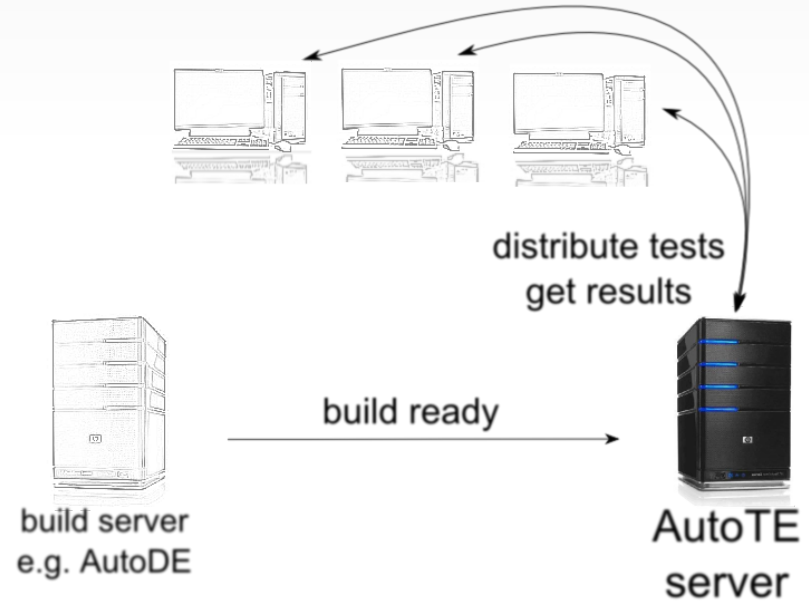
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Scenario 1

distributed testing during night

- use your HW **during night**
- **see results** in AutoTE
- build server and AutoTE can be on the same machine
- AutoTE can deploy to several **embedded OS** and run tests if they are connected to PC



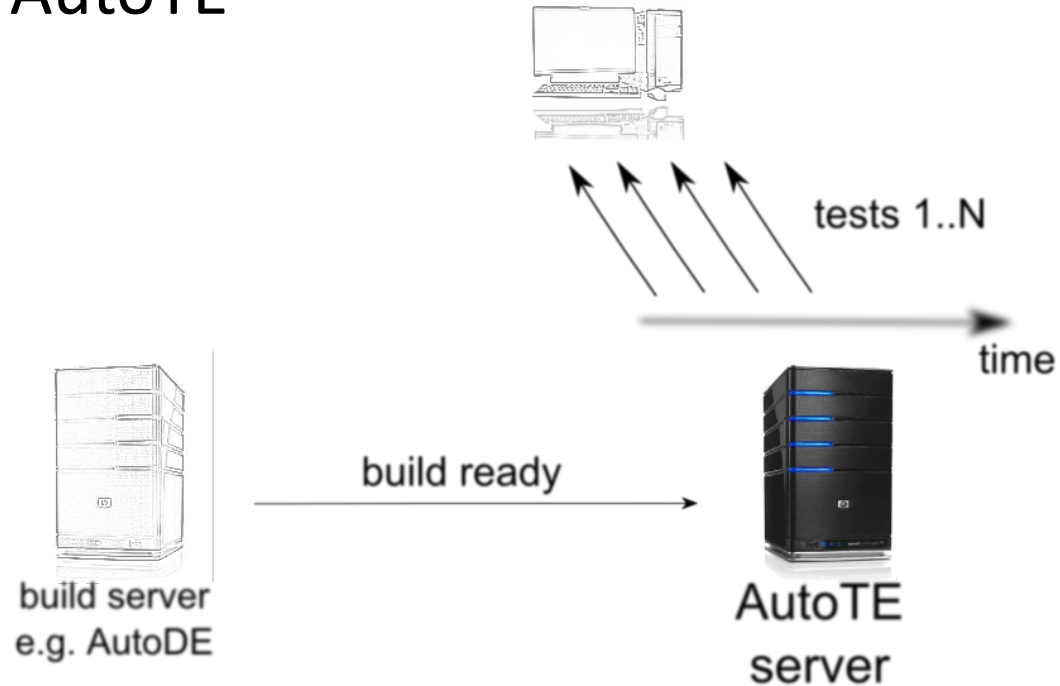
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Scenario 2

- use test server whenever needed
- **see results** in AutoTE



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Selection of external tools which can be integrated



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Why do your developers/QAs want it

- precise **technical status** of your project every morning
- **once fixed and test written** will never break without notice
- **automate** smoke/integration testing
- stored **crash dumps**/stack traces which can be easily referenced
- **traceable** bug fixes to **time/version**



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Why do your customers want it

- **fast iterative development** – give your customer demos with quality ensured by your tests
- **precise and transparent testing** - show your customers how you test and update to their needs
- **quality progress** – by following common software development methodologies



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Case Study 1

standalone pdf editor

Problem

1. source code analysis – c++
2. test common pdf's
3. ensure the stability for malformed pdf's
4. edge cases for special pdf's
5. profiling for large pdf's
6. regression tests

Solution is AutoTE...



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Case Study 2

medical web application

Problem

1. source code analysis – java
2. unit tests
3. test existence of web pages, external elements/links
4. basic user behaviour
5. stability

Solution is AutoTE...



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Case Study solution

AutoTE offers several test scenarios with others easily built-in

- external source code static analysers after each build
- dynamic analysis for each executable (buffer overflows, resource tracking)
- unit testing
- crash dumps of releases collected (if supported by tested project)
- profiling
- existence of elements, stability, user behaviour
- web UI testing



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A DEMO is worth a thousand words
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