

CONTINUOUS TESTING WITH JUBULA

WHERE THE RUBBER MEETS THE ROAD!

by [@MarkusTiede](#) - BREDEX GmbH

AGENDA

What's Jubula?

Why automation & continuous testing?

CI scenarios in theory

... and in Hudson

THAT'S JUBULA!



UI automation @ eclipse.org/jubula since 2011
GUIDancer "Core" since 2004

JUBULA FEATURES

code-free end-to-end testing
keyword based & huge library

cross UI-toolkit

SWT/RCP/GEF (e3 & e4) + Swing + HTML

cross-platform

Windows, Linux & Mac OS X

continuous integration tools

testexec, autagent, dbtool, autrun

WHY AUTOMATE UI TESTS & INTEGRATE CONTINUOUSLY?



build safety net

THE ITE

Integrated Testing Environment
daily test specification & result analysis

DEMO!

CT TOOLS USED

Jubula **2.0.0** - standalone version

Hudson **3.0.0** - plugin bundle WAR

Jubula-CI **ANT scripts**

ANT **1.8.2**

STEPS TO TEST CONTINUOUSLY

build AUT

having a CI is recommended but not mandatory

deploy / install & configure AUT

using a well-defined & stable environment is recommended

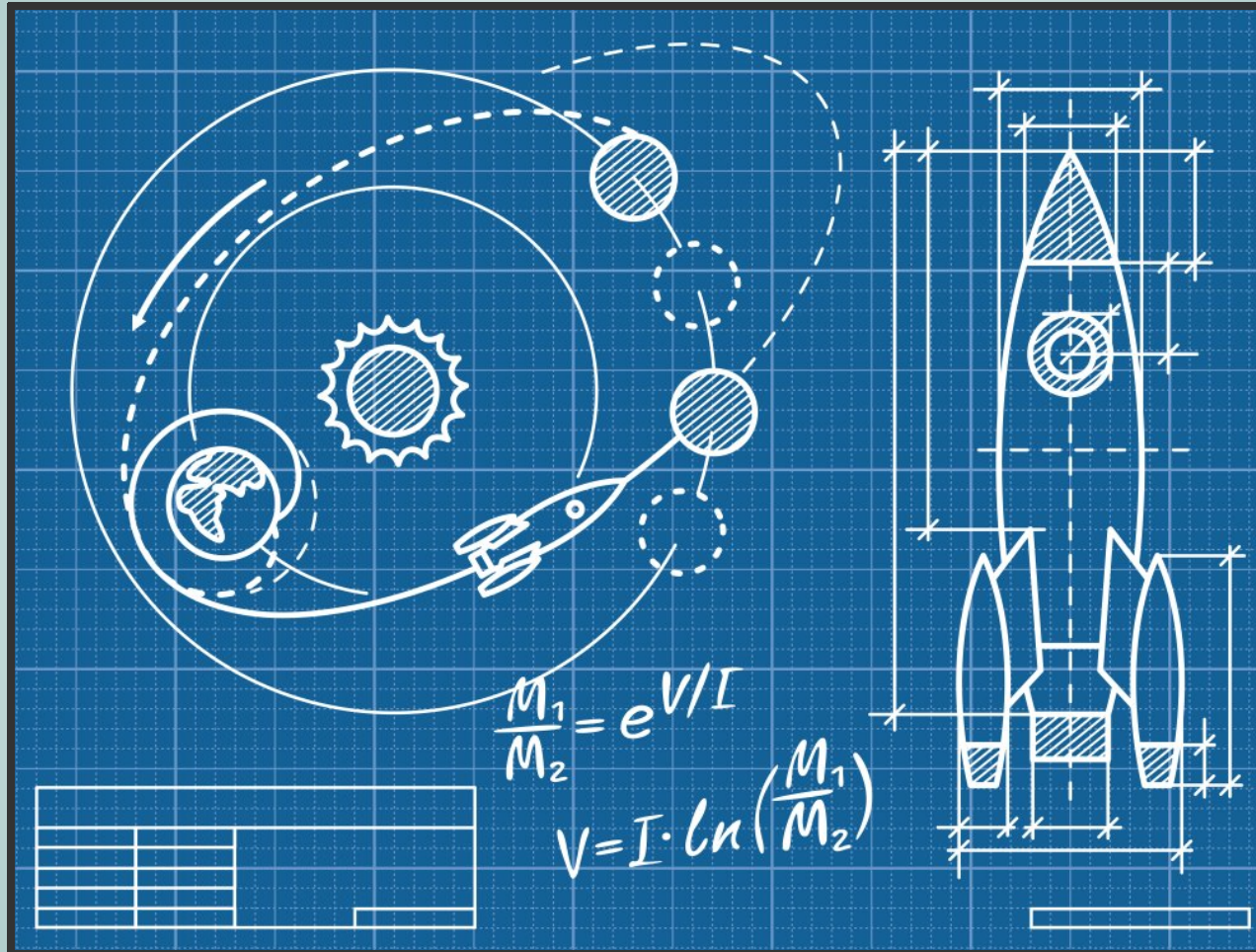
start & test AUT

process & analyze results

reaction is necessary



COMPLEXITY



No rocket science!
... but there are analogies ;-)

START & TEST AUT - JUBULA CT TOOLS

autagent

starts & remote-controls AUT

testexec

provides & processes test execution information

drives the AUT-Agent » AUT

stores tests & results in database

embedded H2, Oracle, MySQL, PostgreSQL

[**autrun**] launch multiple AUTs externally

[**dbtool**] im- & export test projects within CI

START & TEST AUT - STANDARD WORKFLOW

- 1. start autagent**
on test machine
- 2. start testexec**
loads tests from database
- 3. testexec » autagent: "start & wait for AUT"**
via AUT configuration
- 4. test suite execution**
documents all events / steps
- 5. testexec provides test result**
in database & file-system

START & TEST AUT - WORKFLOW

highly customizable
35+ parameters

default layout / test execution

Jubula-CI **ANT scripts**

dbURL, project name, AUT-name, test result directory

naming conventions

AUT-configuration: ci.\${os.arch}.\${os.name}

Test Suite names: \${AUT-name}-FULLTEST

DEMO!

THAT'S HUDSON!



continuous integration tool @ eclipse.org/hudson

HUDSON FEATURES

(super)-easy setup

central "dashboard" web-app

job scheduling

job distribution

result processing

START & TEST AUT IN HUDSON

execute ANT script

cross-platform

use build trigger

timer (nightly execution), SCM change, ...

execute on hudson slaves

test distribution

DEMO!

THANK YOU! - Q&A?

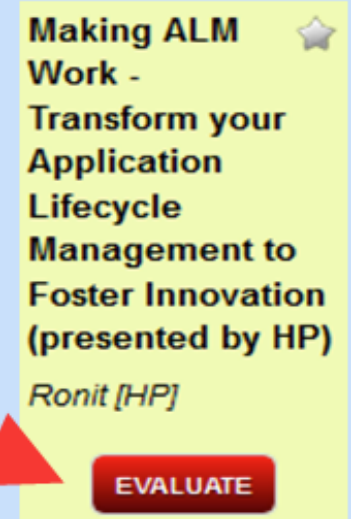
Give Feedback on the Sessions

1

Sign In: www.eclipsecon.org

2

Select Session Evaluate



Making ALM Work - 
Transform your Application Lifecycle Management to Foster Innovation (presented by HP)
Ronit [HP]

EVALUATE

A red arrow points from the 'Evaluate' text in step 2 to the 'EVALUATE' button in this screenshot.

3

Vote

