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# QCon全球软件开发大会

International Software Development Conference







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**QCon** Shanghai

# Why implement an effective and efficient TIDAS

(Test In Device Automation System)?









france/co fiorentino @ Nokia Mobile Phone R&D

#### **About Me**

#### Francesco Fiorentino

Test Tool Architect, Platform SW Verification Nokia Mobile Phone R&D



- ✓ Ulm, Germany
- ✓ Copenhagen, Denmark
- ✓ Beijing, China (since 2012 present)

#### **Currently Live in Beijing**





# Some terminology

#### ...in short

Git	Git is a distributed revision control and source code management (SCM) system. git-scm.com
Git notes	git notes –ref=openci append –m "HELLO" [commitSHA1] <a href="http://git-scm.com/2010/08/25/notes.html">http://git-scm.com/2010/08/25/notes.html</a>
SHA1	SHA-1 is a cryptographic hash function. wikipedia.org/wiki/SHA-1
Gerrit	Gerrit is a web-based code review tool built on top of the git version control system. <a href="mailto:code.google.com/p/gerrit/">code.google.com/p/gerrit/</a>
Redmine	web-based project management (includes REQ management) and bug-tracking tool. redmine.org
Redmine To Go	Windows Phone App, keep track of your projects wherever you are. <u>redminetogo.com</u>
CI	Continuous Integration System, in our contest base jenkins-ci.org
SCV	Single Commit Validation, validation performed on each software change
openCI	mechanism used in Platform SW CI

#### **Test Goals**











Support multi Platform at the same time in different software branches

# **Test Type goals**

- Platform SCV Test
- Platform Release Test
- Platform Stability Test
- Platform Functional Test

UI

Middleware

**Engine Layer** 

Vendor

## Ambition - Test Ecosystem

Deploy Automatically

- Test Asset
- Tools
- Release Notes

Report Issues
Automatically

Create Test Case

{documentation}

Develop Test Case {code}

Share Test Case

Monitor Execution





All within 1 System

# How to achieve Test Goals?

# ecosystem TIDAS

#### Minimalist approach

Able to share Test Cases between organization



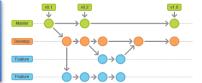
Integration to Project manager tool REDMINE



Integration to CI System



Integration to Test Case Release process



Integration to LAB/Test Farm

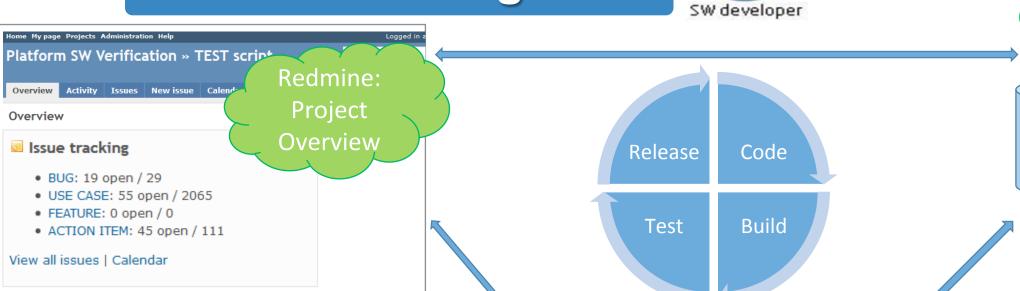


Adjust solution on project needs



### **TIDAS Tool integration**





Code Review

Gerrit / Git

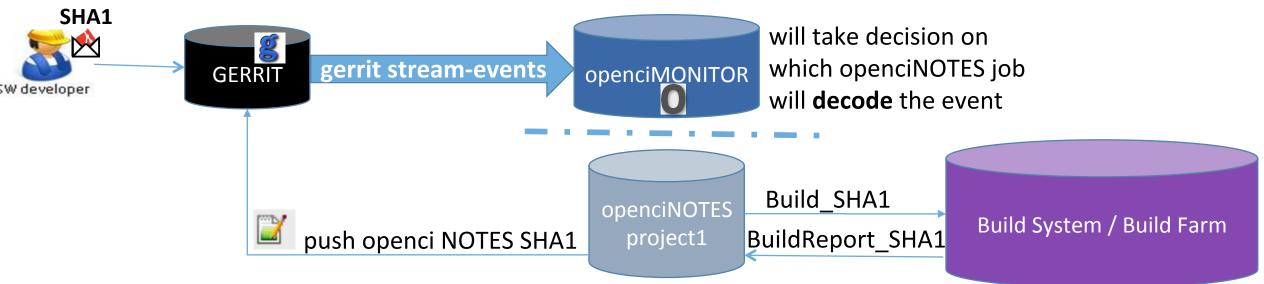


LAB / Farm:
Test In
Device
Testing

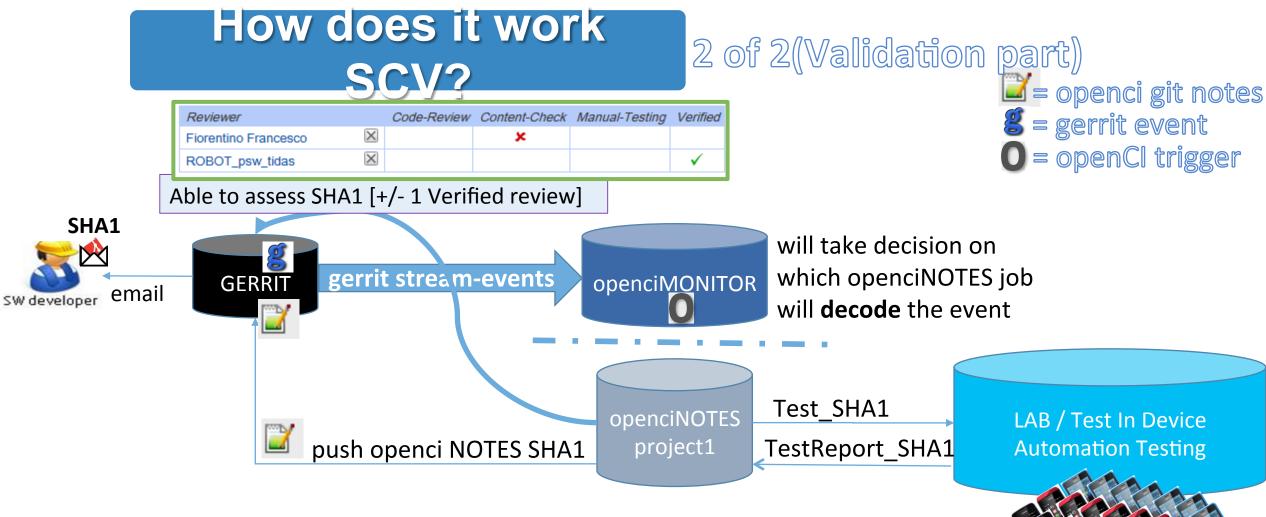
# How does it work SCV?

1 of 2 (Single Commit Validation)





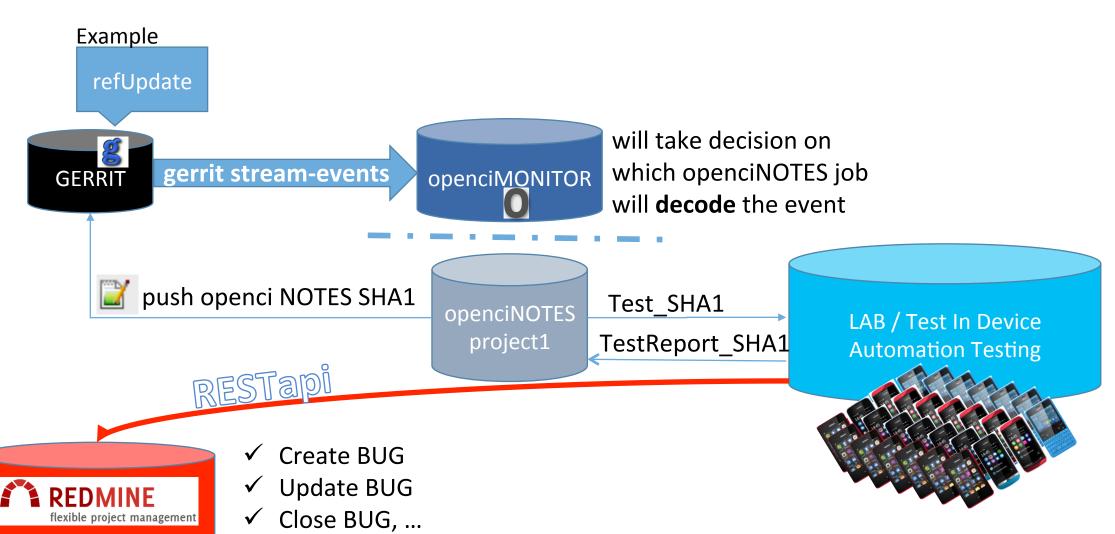
- ✓ Now "git notes –ref=openci" for SHA1
  - → contains in the history information about BuildReport
- ✓ Information is shared to gerrit which will generate an gerrit event
- ✓ Information is potentially available to everyone whom has access



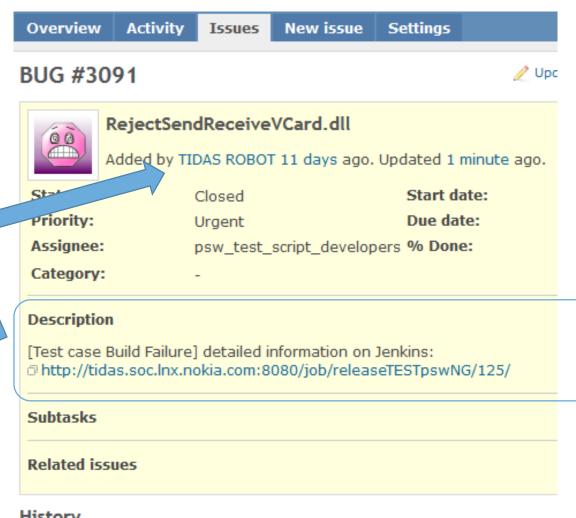
- ✓ At this time "git notes –ref=openci" for SHA1
  - → will contains the history build + test report
- ✓ You can use such information to have all sort of matrix and statistics

## Update automatically Bug status





## Update automatically Bug status



History

20

OPEN 11 days ago

By TIDAS ROBOT

Updated by TIDAS ROBOT 11 days ago

• Status changed from Open to Closed

Updated and closed!

#### SUMMARY









ARE AWESOME OPENSOURCE PROJECTS



- **❖** MAKES DOABLE IMPLEMENT TIDAS WITH LIMITATED RESOURCES
- ❖ POSSIBLE TO ADAPT SOLUTION IN DIFFERENT SW BUSINESSES
- **❖** AUTOMATION: "CAN DO!"

## **THANKS!**

QA, 问答





