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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] http://git-scm.com/2010/08/25/notes.html
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. code.google.com/p/gerrit/
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

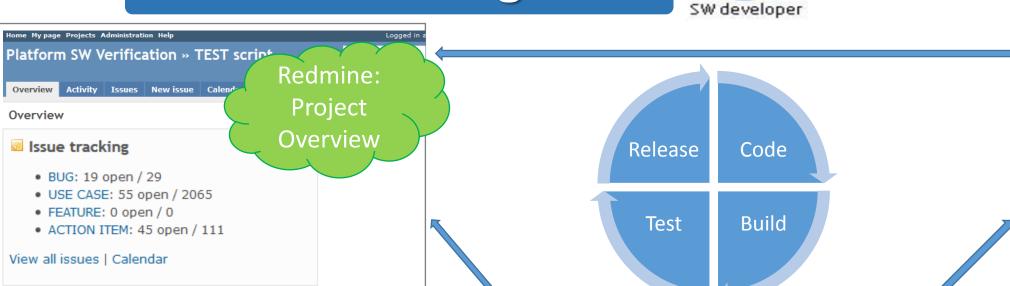


Adjust solution on project needs



TIDAS Tool integration





Code Review

Gerrit / Git



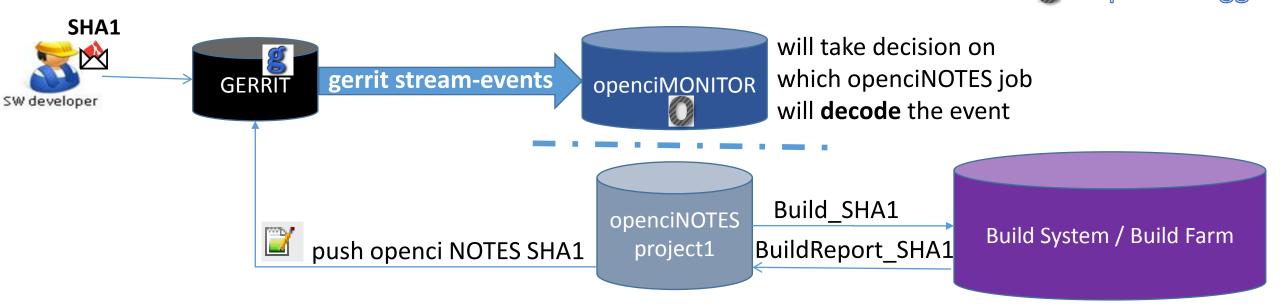
LAB / Farm:
Test In Device
Testing



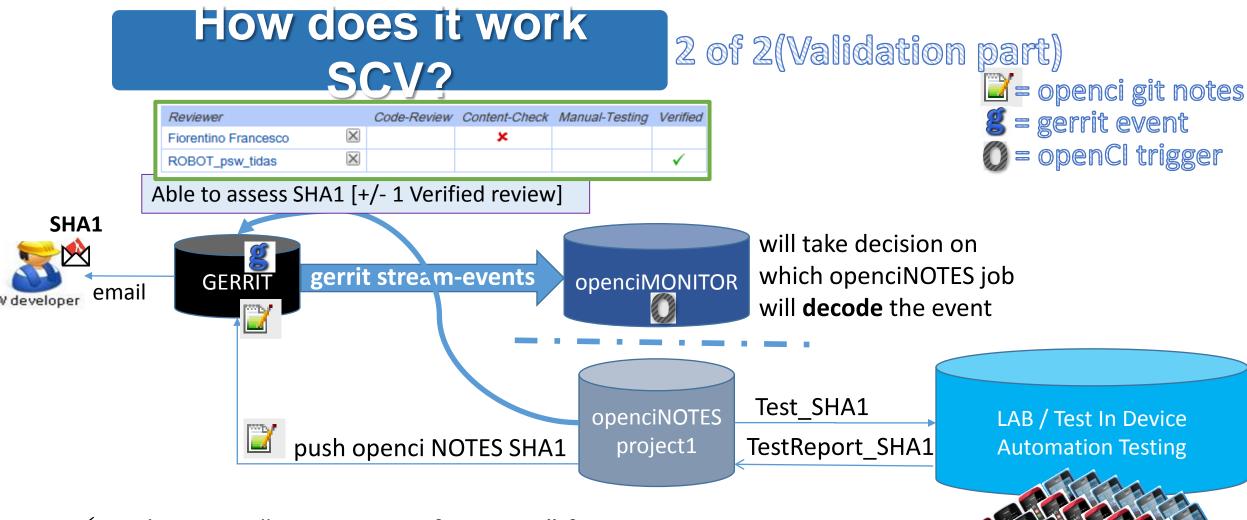
How does it work SCV?

1 of 2 (Single Commit Validation)





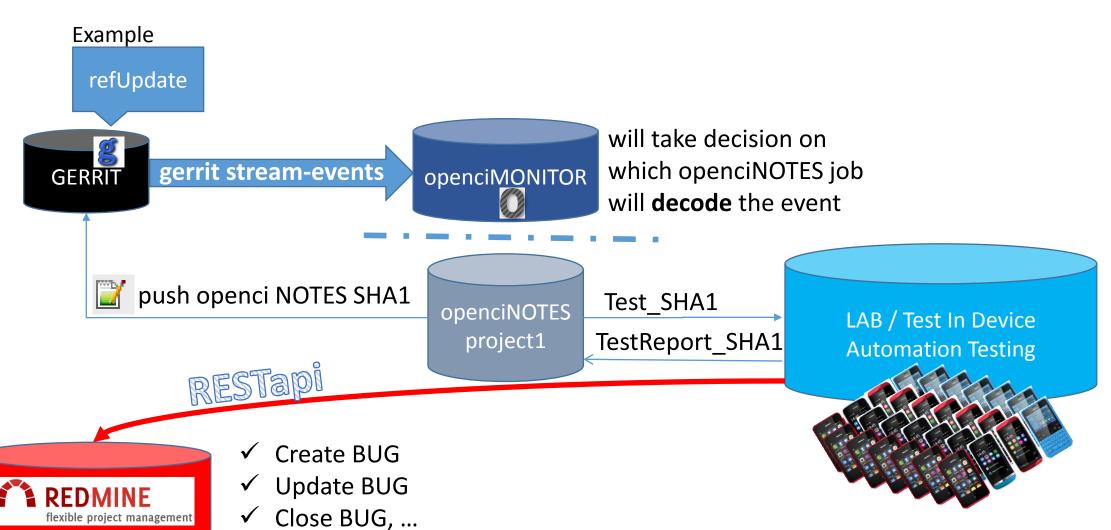
- ✓ Now "git notes –ref=openci" for SHA1
 - → contains in the history information about BuildReport
- ✓ Information is shared to gerrit which will generate an gerrit event
- ✓ Information is potentially available to everyone whom has access



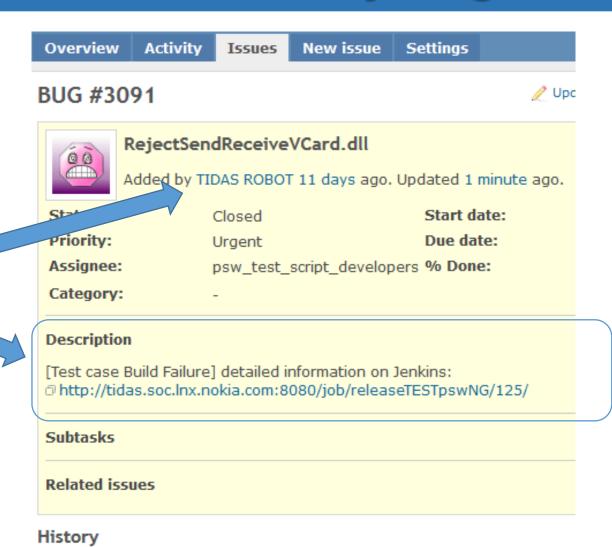
- ✓ At this time "git notes -ref=openci" for SHA1
 - → will contains the history build + test report
- ✓ You can use such information to have all sort of matrix and statistics

Update automatically Bug status





Update automatically Bug status



Updated and closed!

• Status changed from Open to Closed

Updated by TIDAS ROBOT 11 days ago

OPEN 11 days ago

By TIDAS ROBOT

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





