

NEST 1.1 Project platform in Test Management



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What is NEST Project Platform?

- *”MPP” - Micro Project Platform*
- *Collaborative and constructive working environment*
- *Cost efficient tool selection (Open Source)*
- *Low administration overhead*
- *Based on virtualization*
- *Fast Ramp up*

”Nest for a project”



NEST ideology #1

- *Collaborative working (based heavily on WIKI usage)*
- *Project teams know how to solve problems platform should not restrict solutions!*
- *Ready for modifications according project needs*
- *Tools are able to fix if there is problems*
- *Platform is agile for further development*



NEST ideology #2

- *Low license costs (Possible to reach 0€) makes possible to build efficiently multiple independent projects*
- *All project are using same tools without limits*
- *High integration between tools, because of centralized authentication*
- *Easy to maintain (Documented administration work)*



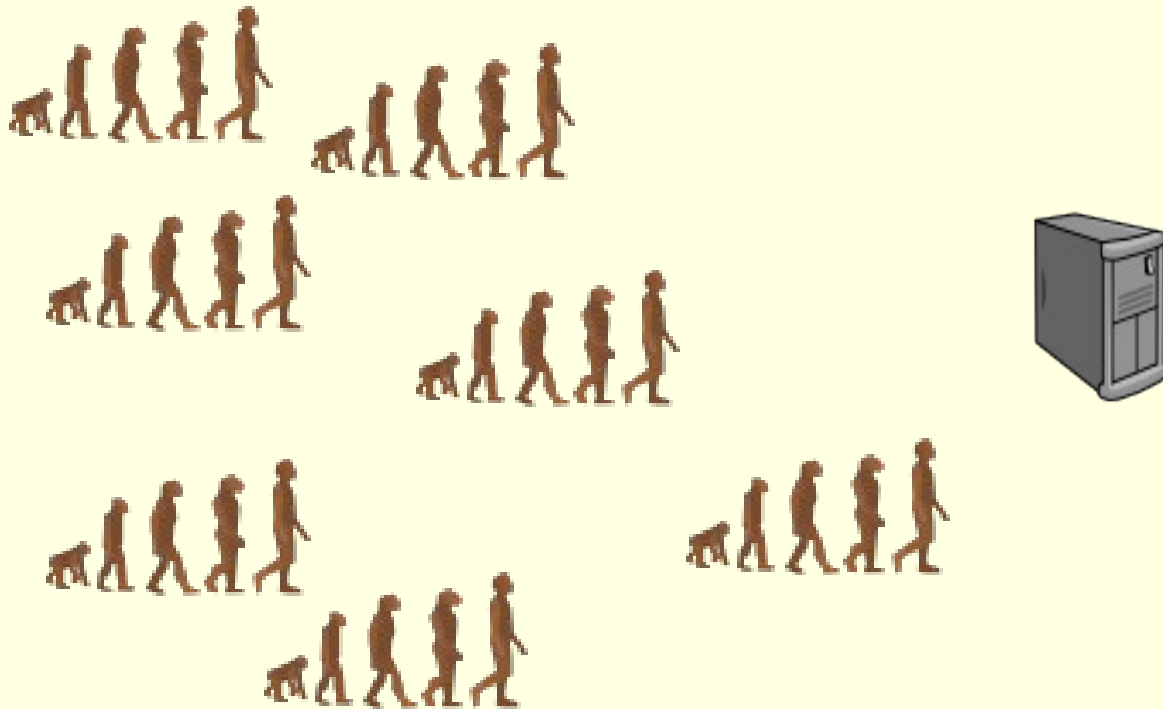
Linux platform

- *Test management*
- *Error management*
- *Version control*
- *Issue tracing*
- *Data storage*
- *Build service*
- *Statistic*
- *Forums*
- *Intra-Knowledge base*
- *Collaboration*

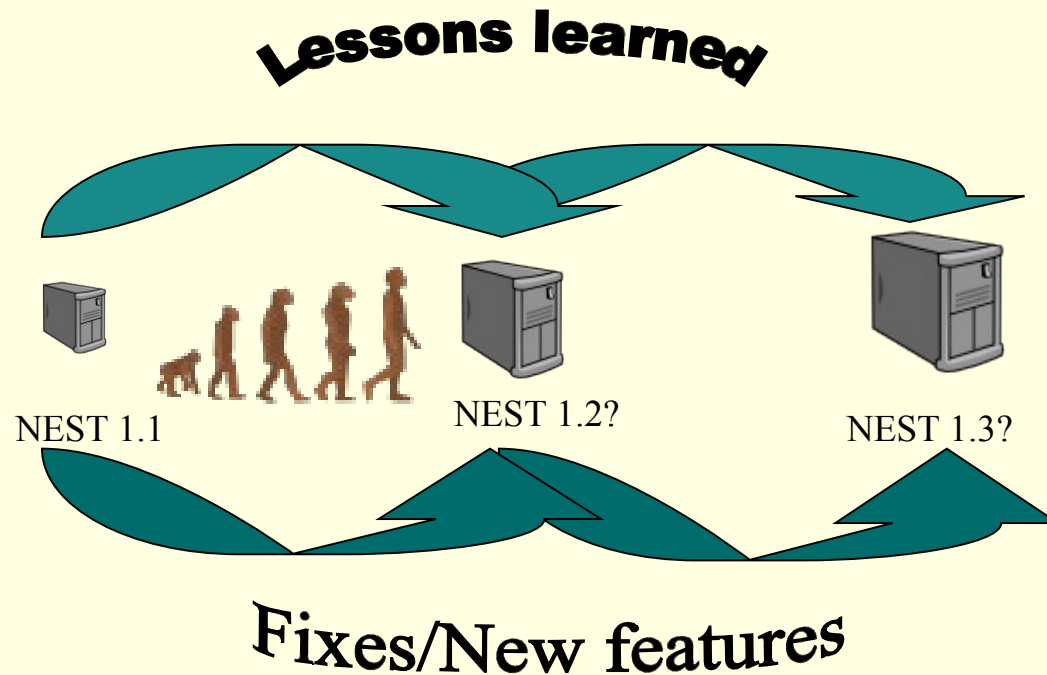


Project team size 1-n ?

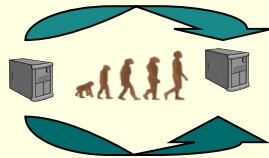
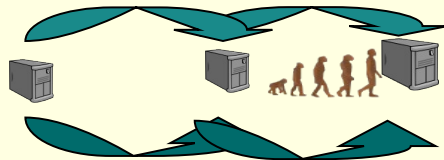
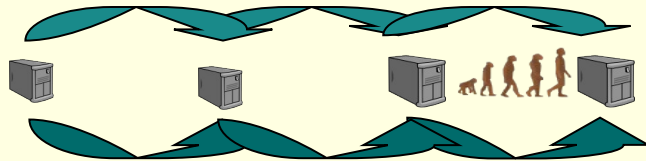
Breaking up project organization model? #1



NEST - Foundation for learning project organization?



Breaking up project organization model? #2



VS.



One server to rule them all?

NEST Project Platform

Technology #1

- *NEST v1.1 is based on pure Open Source software components which are pre-installed on one virtual machine image.*
 - *Server platform Linux*
 - *(Centos 5.0/RedHat 5.0)*
 - *Database MySQL (5.0)*
 - *Authentication OpenLDAP*
 - *Web Server Apache (2.2)*
 - *PHP 5.0 - Python 2.4 – Perl 5.8*

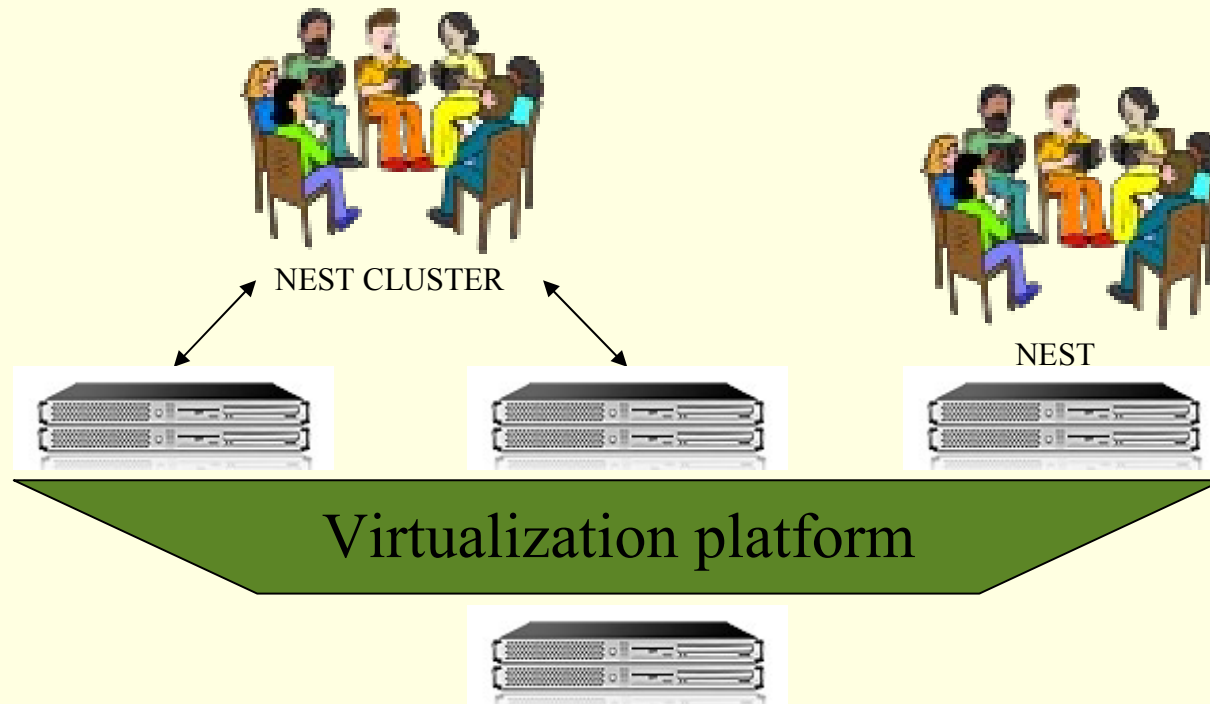


Only commercial part currently is VMWARE server which will run image .

Also Xen/Virtualbox etc..

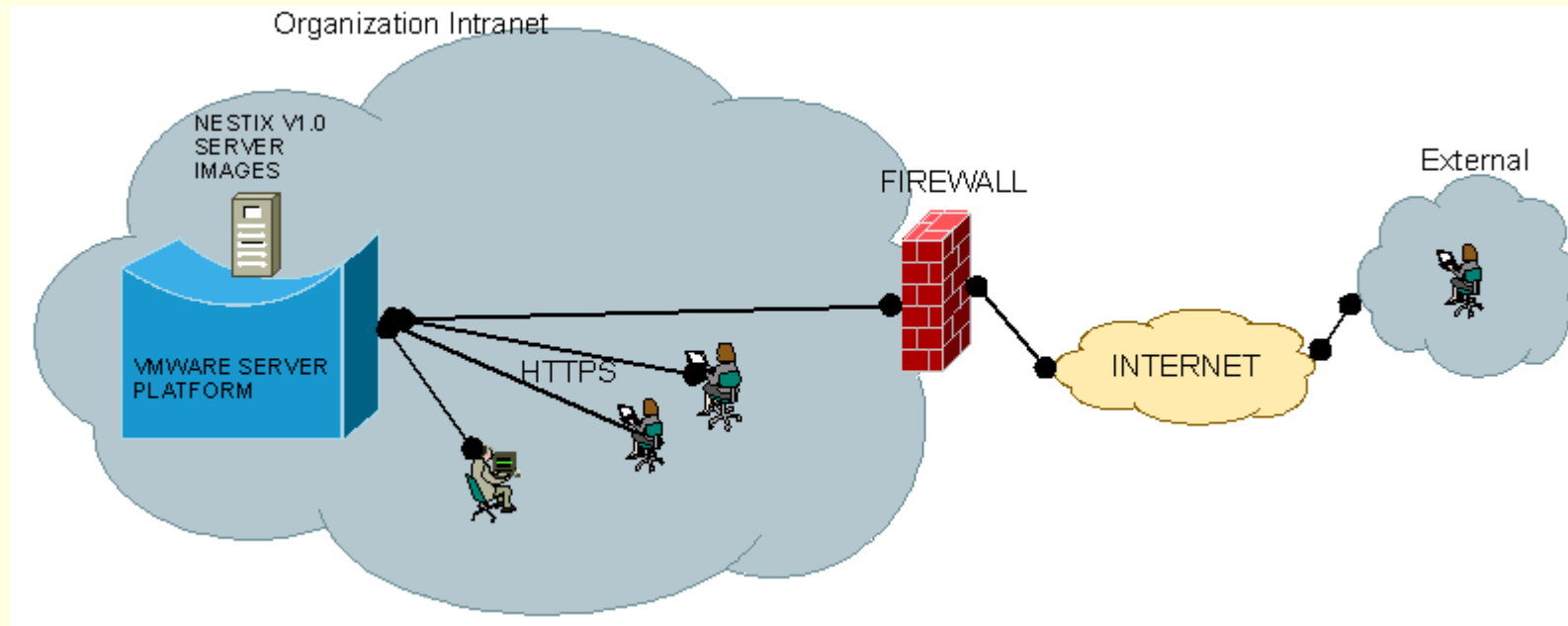
NEST Project Platform Technology #2

- *Virtualization platform provides service power in efficient way.*
- *NEST servers will be possible to deploy as cluster*

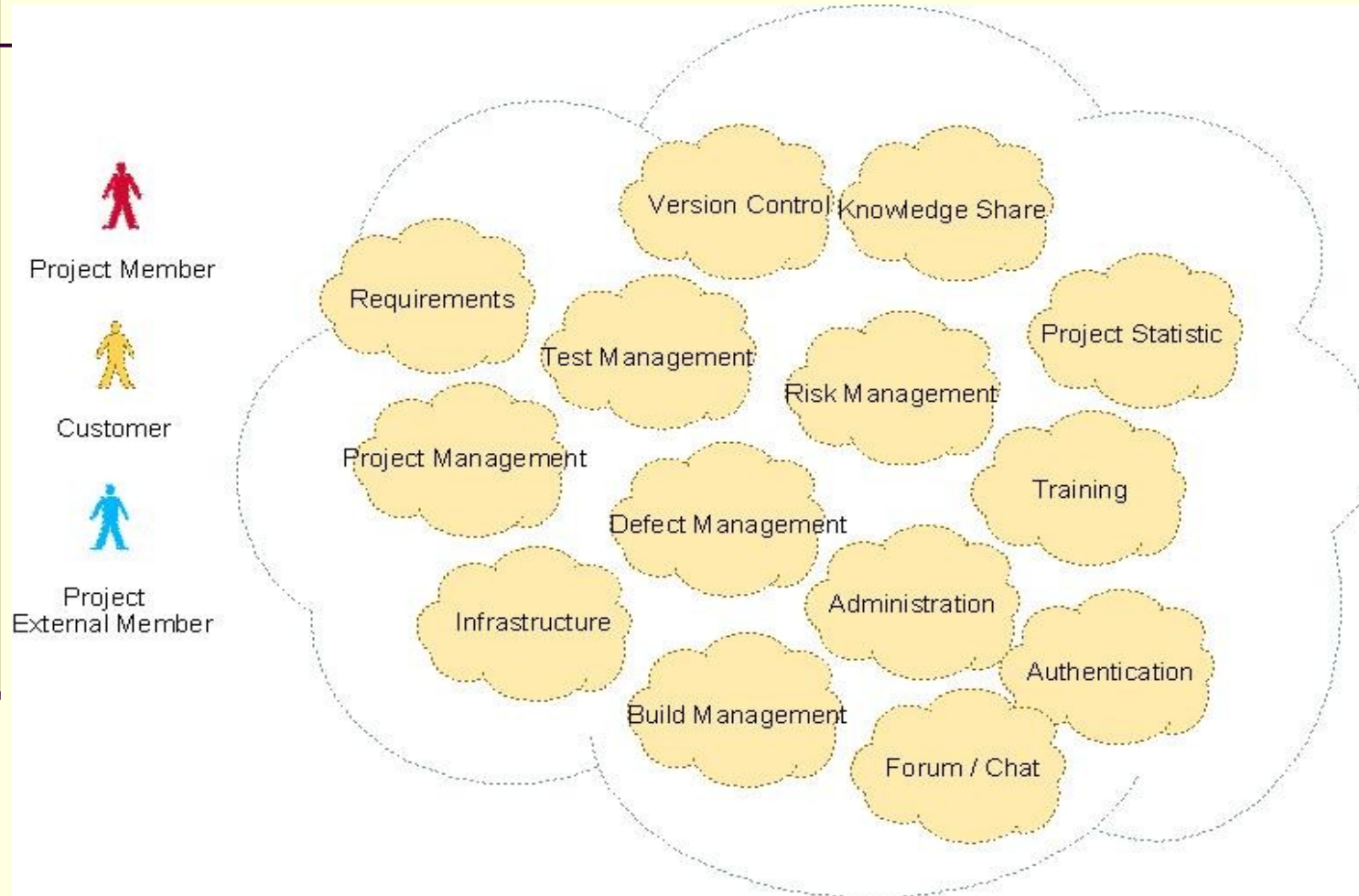


NEST working in network

- *Project NEST could be located on DMZ where it is available for dedicated organizations or members. This is easy way to get customer in project*



NEST tools and services



NEST as virtual working environment

Welcome to NEST-IX v1.1 Project Platform!

IXONOS

NEST-IX

v 1.1

Project Platform

Open Doors For Open Source

Demonstration for IFDK Project

IXONOS

intelligent software. passionate people.

Project Wiki
Project Tasks
Project Management
Project Web Disk Share
Risk Status
Requirement Status
Version Control - Status
Build Status
Defect Management
Test Management
Project Externals Wiki
Infra / Processes
Forum Chat Blog
Survey
Change Password
About NEST-IX

Powered by
MySQL



collaborate with
TWiki

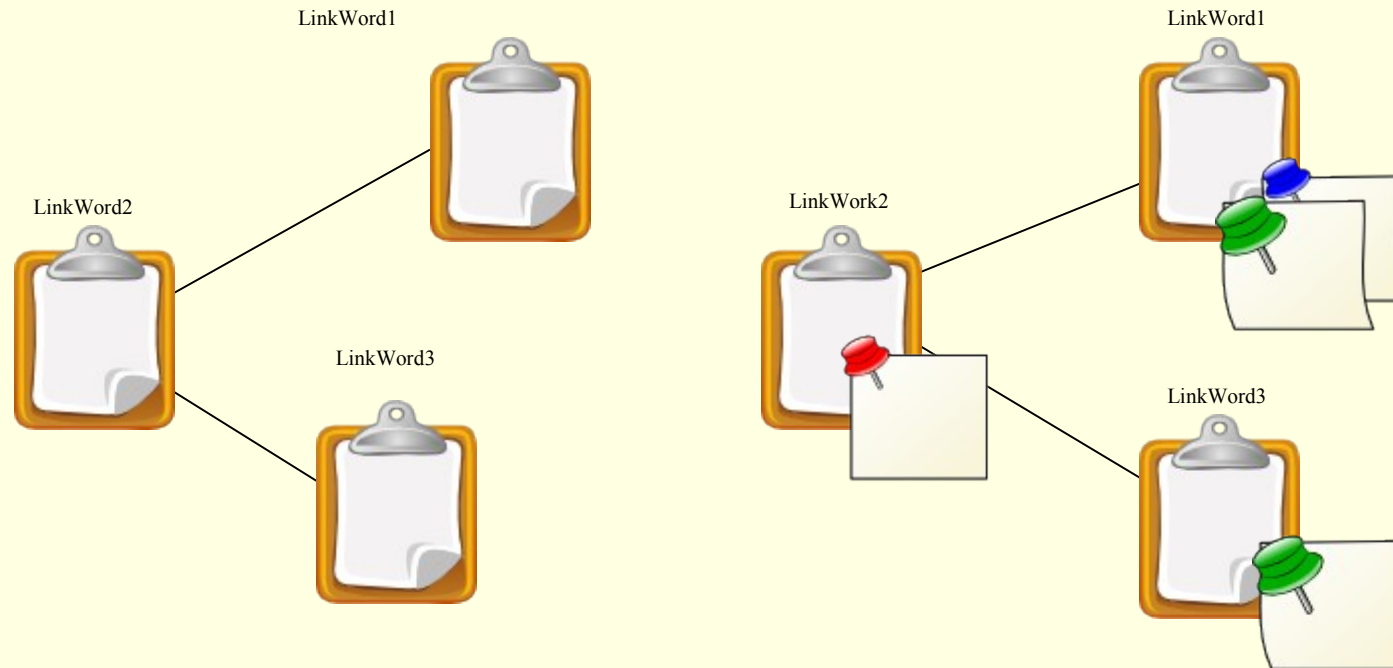


Test
Link


SUBVERSION

TWIKI as core technology

■ *Normal WIKI vs Structured TWIKI*



TWIKI as core technology




...see who is registered on this TWIKI

NAVIGATION

Main » WebHome

Welcome to Official Project WIKI! - 18 Mar, 2008 - week 12



The Journey is just beginning.....

Latest News and Information

type of message	time	Description	by who
OLDFYI	OfficialCollectionOfOldFYI	Old FYIS should be moved here	Narsu

Links

Information share	Design/Implementation	Work	Management	Reports
Process pages	Feature Proposals	Simple Tasks List	Back Log	Contact List
Project Knowledge Base	Features and Releases	OfficialTopic>CreatePage	Error Management	Project Status
Project Documentation	Project Design	Project Training	Requirement Management	Meetings and Notes
Big Picture of Project	Hardware Issues	Project tools	Risk Management	Project CV's
Training Survey				

Main -
Webs -

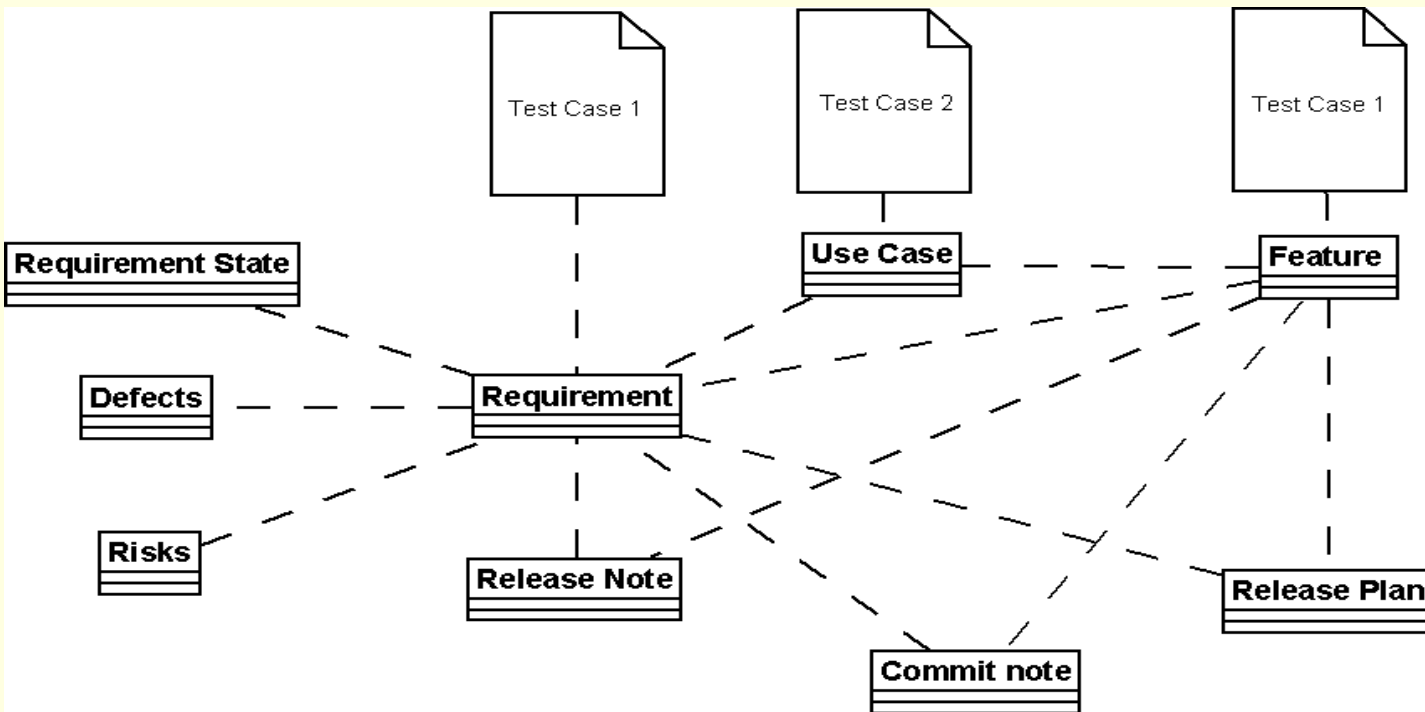
- Main
- ProjectInfra
- ProjectRequirements
- ProjectTemplates
- TWiki

MySideBar -

- Links -
 - Bugzilla
 - Requzilla
 - Riskzilla
 - Testlink
 - Chat
 - Forum
 - Trac Tasks
 - Documents in SVN
 - Sources in SVN
 - Requirements in SVN
 - Blog
- Documentation -
- Style Browser

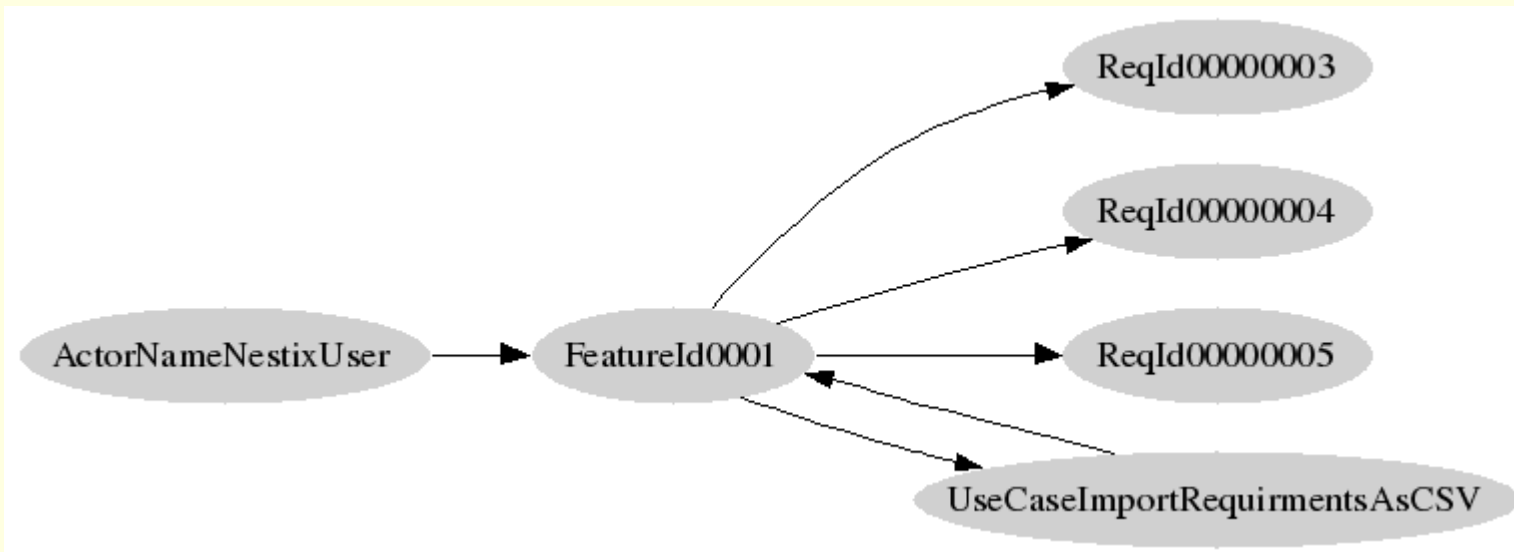
Requirements, traceability and testing

- *TWIKI with several integration plug-ins provide high level traceability between different tool domains*

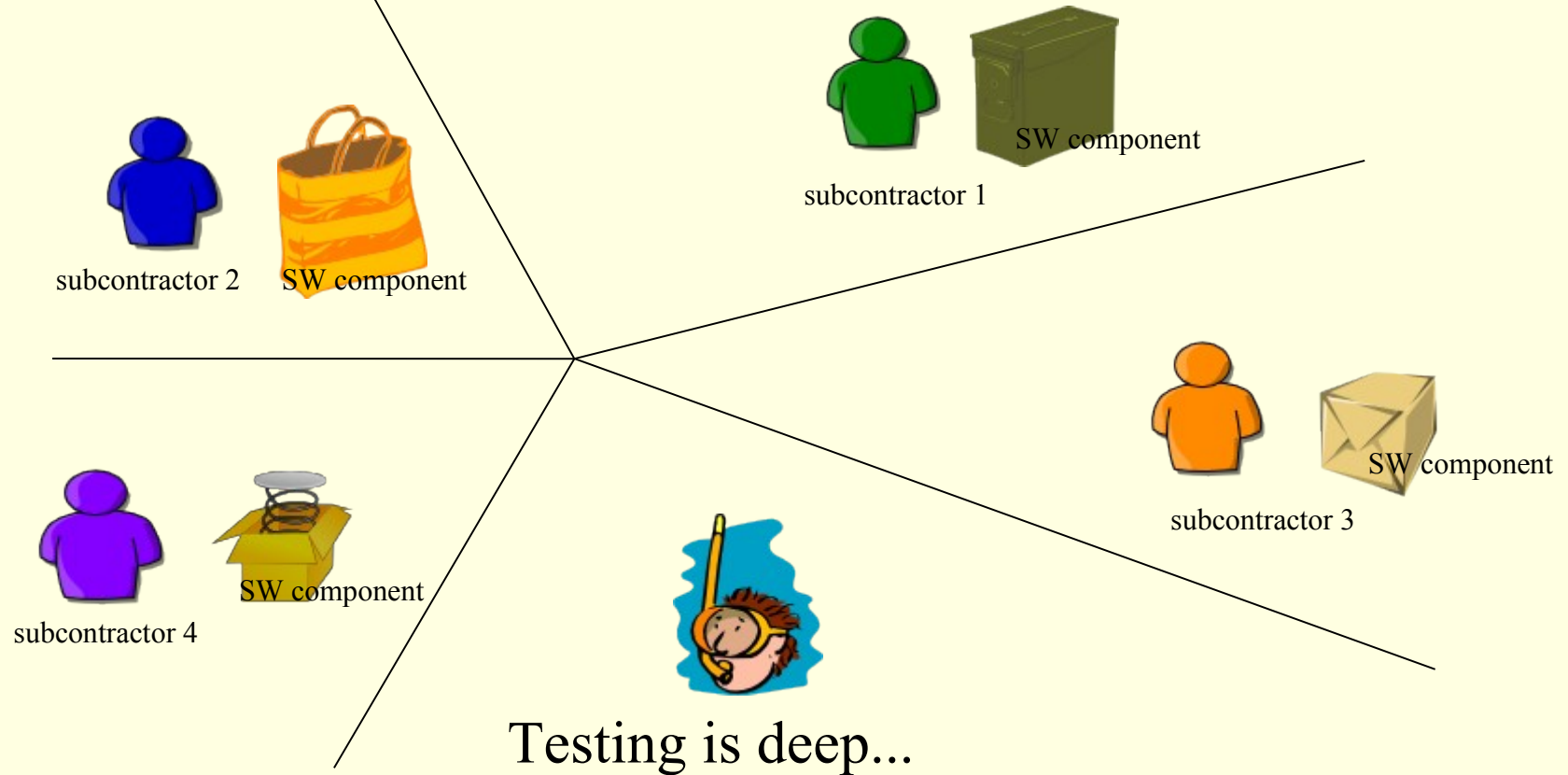


(NEST) Requirements and traceability

- *TWIKI with several integration plug-ins provide high level traceability between different tool domains*

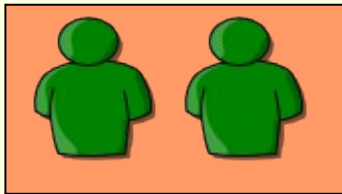


(NEST) System Testing Scenario



(NEST) System Testing Scenario

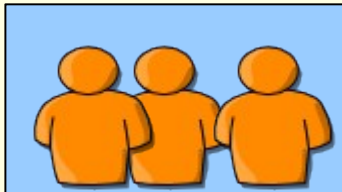
Different processes/intranets



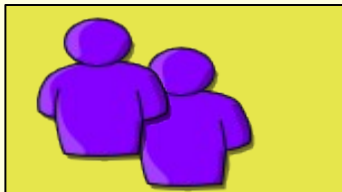
organization1



organization2



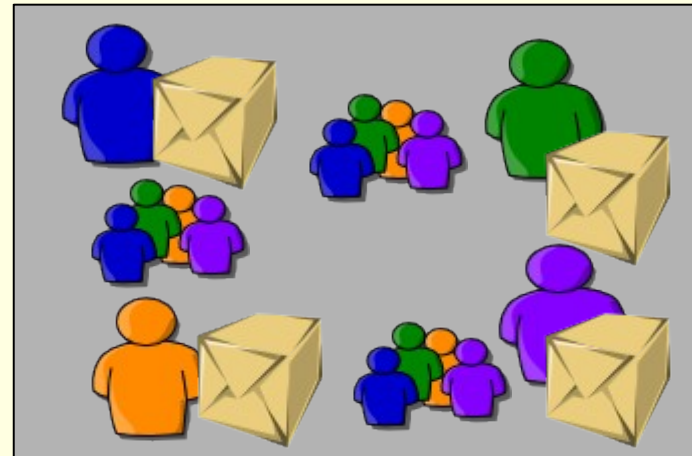
organization3



organization4

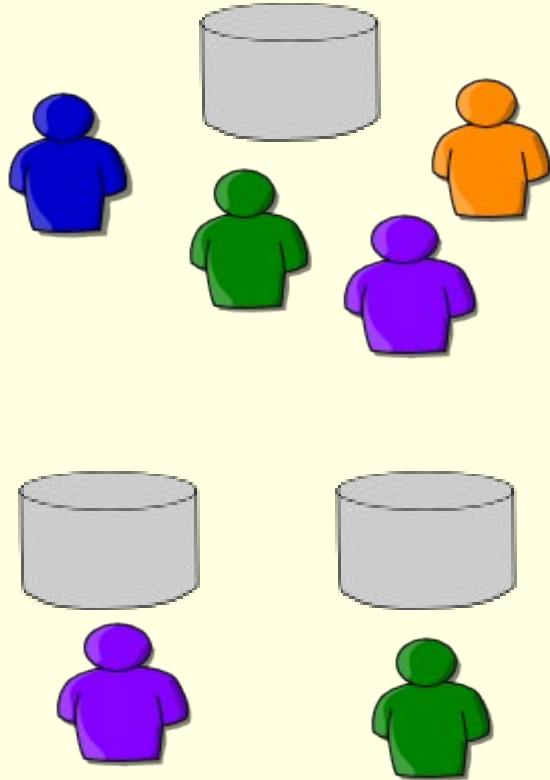
VS.

Same processes and intranet



4 X COSTS? > 1 X COSTS?

What we can reach using open source?



- Same tools for everyone ?
- No extra costs for licenses
- Scalability during project
- Focus on efficient usage
- All participants can work together – more agile ?

(NEST) Testing management

ID 112 :: Test Case Battery level shown on the Kit

Version 1

Summary

Battery level must be shown on the KIT's screen

Steps

1. Turn the KIT on
2. Look for the battery level indicator
3. Play drums for 5 minutes
4. Take another look at the battery level

Expected Results

1. After turning the level indicator
2. After turning the level is shown
3. After playing with indicator has disa
4. After playing with indicator is still sl

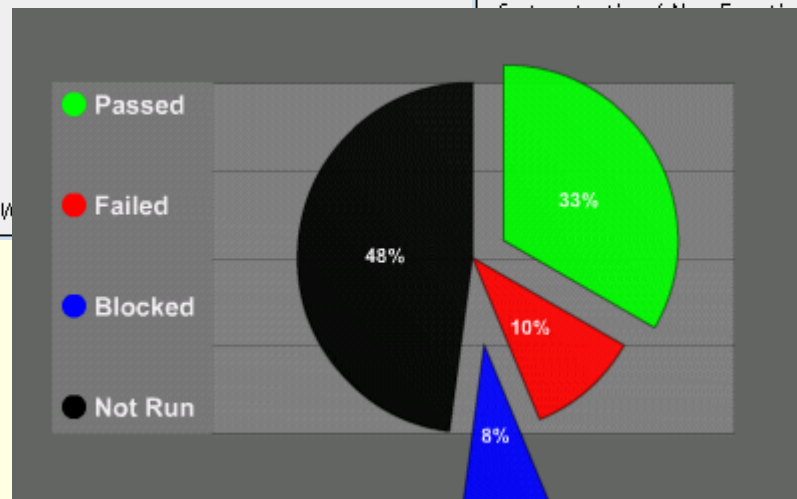
Keywords:

Requirements : None

Created on 02/04/2008 09:29:52 by W

Test Plan : System Testing

Test Suite	Test Case	Test Build 6	Test Build 7	Test Build 8
System testing / Non Functional System Testing / Performance Testing	136:Frequencies	Not Run	Passed	Blocked
System testing / Non Functional System Testing / Stress Testing	89:User doesn't get hurt	Not Run	Failed	Passed
System testing / Non Functional System Testing / Stress Testing	91:Test waterproof	Not Run	Passed	Passed
System testing / Non Functional System Testing / Stress Testing	93:Device doesn't overheat	Not Run	Failed	Passed
System testing / Non Functional System Testing / Stress Testing	124:Fire Resist	Not Run	Passed	Passed
System testing / Non Functional System Testing / Stress Testing	130:Bulletproof	Not Run	Failed	Failed
System testing / Non Functional System Testing / Stress Testing	134:Waterproof	Not Run	Passed	Not Run
System testing / Non Functional System Testing / Stress Testing	144:Does the speaker get affected by mobile phones	Not Run	Passed	Not Run



(NEST) Defect Management



Bugzilla

Bugzilla - Bug List

Home | New | Search | Find | Reports | My Requests | My Votes | Preferences
Log out demouser@ss.ixonos.com

Mon Apr 7 2008 15:14:54
hello world

ID	Sev	Pri	OS	Assignee	Status	Resolution	Summary
41	cri	P3	Wind	root@localhost.localdomain	NEW		FeatureId0015 Too slow start up for IFDK kit
42	enh	P5	Wind	root@localhost.localdomain	NEW		FeatureId0015: Risk of too narrow hw board
43	enh	P5	Wind	root@localhost.localdom			

3 bugs found.

Long Format

XML

Time Summary

CSV | Feed | iCalendar | Chan
Change Several Bugs at Once

Error STATUS

[Reported Defects at BUGZILLA](#) [Check BUGZILLA](#)

<u>Id</u>	<u>Status</u>	<u>Priority</u>	<u>Decision</u>	<u>Decision Status</u>	<u>Product</u>	<u>Description</u>
41	critical	P3	NEW		Project Bugs	FeatureId0015 Too slow start up for IFDK kit
42	enhancement	P5	NEW		Project Bugs	FeatureId0015: Risk of too narrow hw board
43	enhancement	P5	NEW		Project Bugs	FeatureId0015: Battery test failed!
44	normal	P3	NEW		Project Bugs	Crash during hit ?

(NEST) All information in TWiki

ReqIdExample

This is a example of Requirement

Requirement

Description	<i>This is a example of Requirement</i>
Type of Requirement	System Requirement
Domain	Nestix System
Review status	Accepted

References

<input checked="" type="checkbox"/> Requirement Status	ReqId	Req State	Priority	Status	Reported By	Product
	1	Change Proposal	P5	NEW	root@localhost.localdomain	Project Requirements

<input checked="" type="checkbox"/> Testcase Status	Test Case Id	Product	Case Name	Brief Case Description
	4	Example Project	Example of Testplan	Example test case This case verifies....

<input checked="" type="checkbox"/> Bug Status	Id	Severity	Priority	Status	Reported By	Product	Brief Description
	1	normal	P3	NEW	root@localhost.localdomain	Project Bugs	ReqIdExample: This is a examp

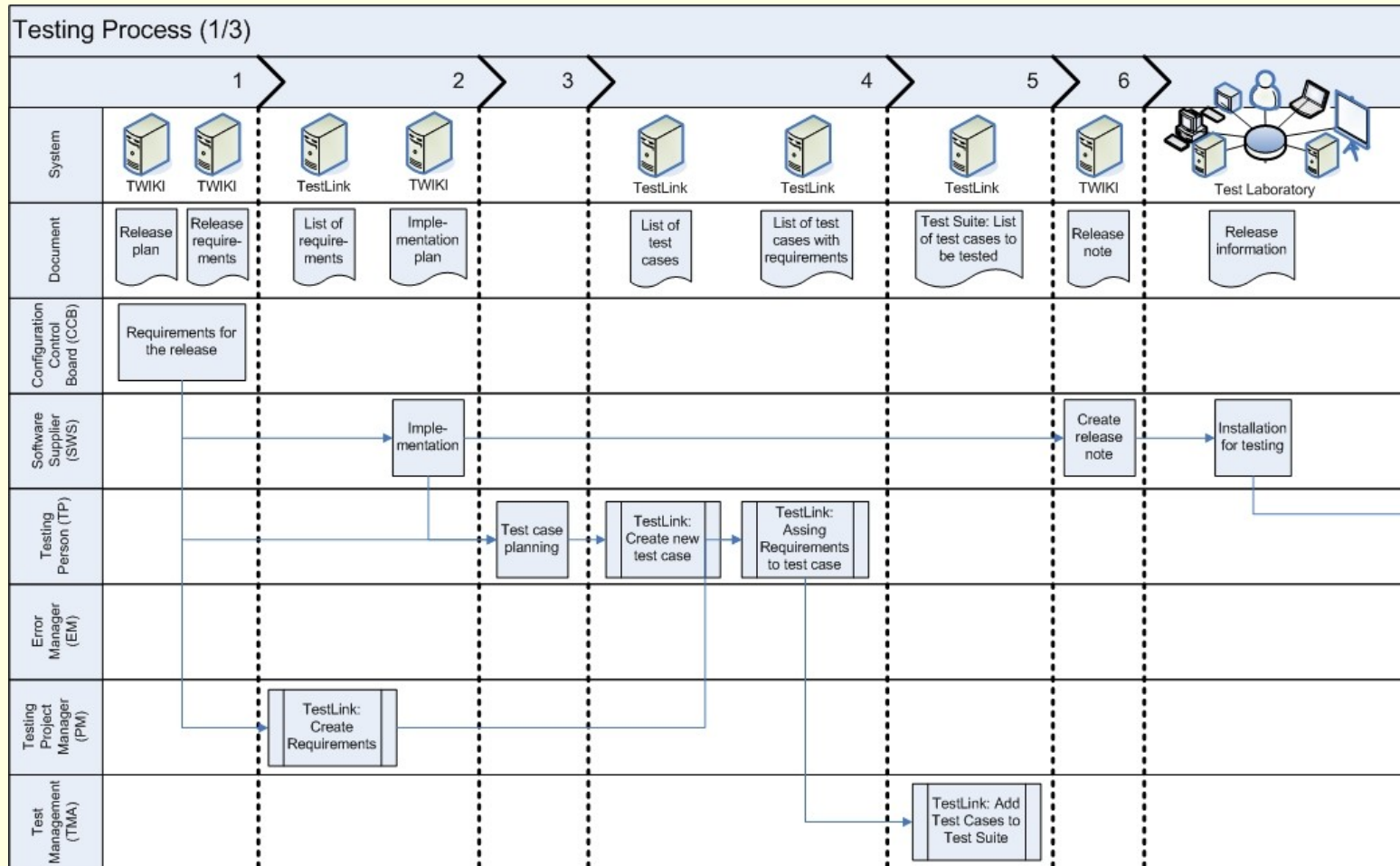
Forum discussion [Check Forum](#)

[See 2 posts about "ReqIdExample"](#)

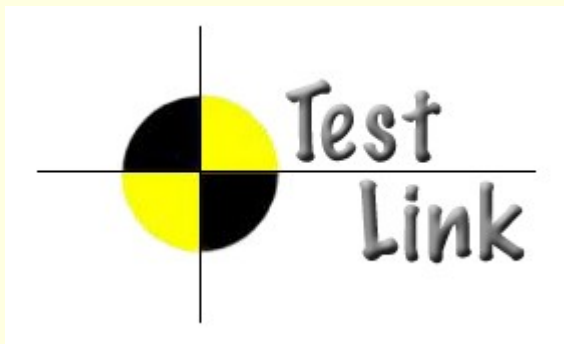
Attachements in subversion [Check Attachements](#)

FeatureIdExample → ReqIdExample

(NEST) Processes for working



Best of Breed Open Source Tools





OPEN DOORS FOR OPEN SOURCE !

marko.rintamaki@ixonos.com

Project Team:

Vision and idea

Project Manager: Marko Rintamäki (Ixonos Plc)

*Implementation
and ideas:*

Jan Lapinkataja (Ixonos Plc)

Kimmo Varis (Ixonos Plc)

Heikki Paajanen (Ixonos Plc)

Testing:

Marko Rintamäki

NEST 1.1 Project platform

