Contributing to the openSUSE distribution

Hendrik Vogelsang / Adrian Schroeter openSUSE Team Novell

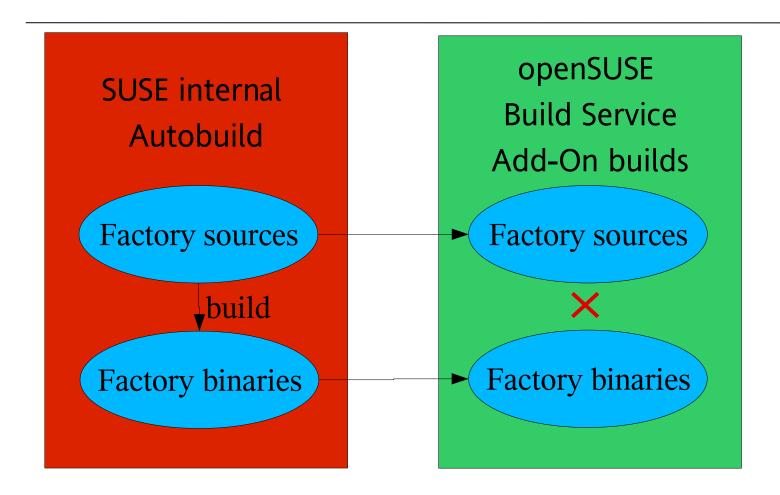




Status Quo How it is



Status Quo – How it is





Status Quo – How it is

- Everybody wants to submit changes as easy as possible
- Everybody has a different trust relationship
- Packagers have different working methods
- Packages have different requirements
- Everybody wants a stable base for testing his changes
- The software pool within openSUSE build service is used for multiple distributions, with different requirements
- -> multiple workspaces, defined processes





Status Quo – How it is Example Quality Requirements

SLE / EAL class requirements:

- Full source review before check-in
- 7 years of full maintenance

openSUSE distribution requirements:

- •Source peer review (is this really enough ?)
- •2 years of security maintenance

Leaf package requirements:

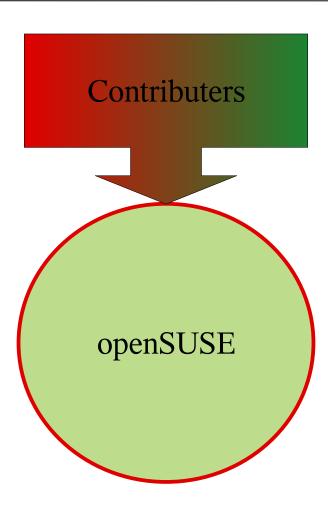
- Fulfillment of guidance principles
- The package should benefit the whole distribution



Contribution Processes How it could be

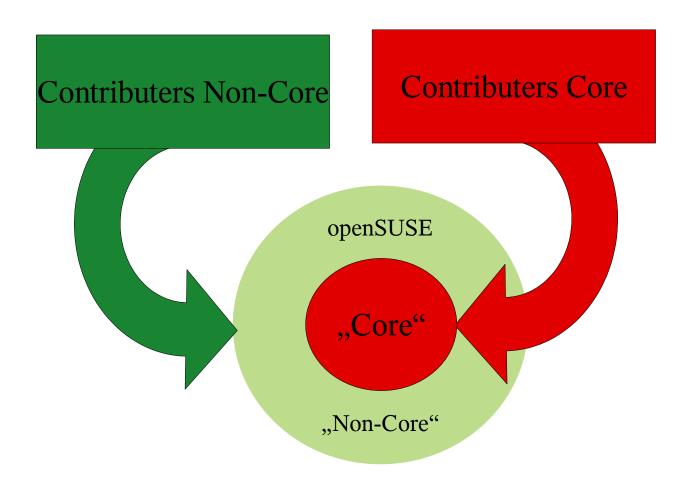


How it could be





How it could be





Contribution to the Distribution

Which packages should be part of the distribution?



Package based Contribution Process Requirements

- Make contributions as easy as possible
- Involve all types of contributers. From Beginners to the most powerful ones
- Only the best packages become part of openSUSE
- openSUSE must be innovative and at the same time stable
- openSUSE must be secure and maintained





Package





Package

Attributes

is stable version number=true number of installs=10000 number of open bugs=1 package exists since days=365 upstream active development=true listens on port=false is setuid=false runs as system daemon=false runs as root=false code public in vcs=true number developers=20 widely used=true reviewed code=false reviewed code by secteam=false package maintainer trust level=100 reviewed spec=true unique functionality=false provides core functionality=false desired functionality=true number of depending packages=6 upstream has stable branch=false upstream exists=true maintenance provider exists=true osi approved license=true links incompatible license=false was before part of distro=true





Attributes Package Quality Security Trust • Innovation Maintenance Legal



Info Provider:

- The Package owner
- The distribution owner
- A user rating/trust system
- A package popularity system
- Bugzilla
- BuildService
- Different openSUSE Teams (Security, Usability etc.)

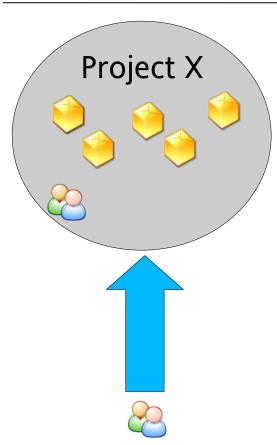


Contribution to Packages

Working on Sources/Packages



Future Source Handling Process I



Open Project:

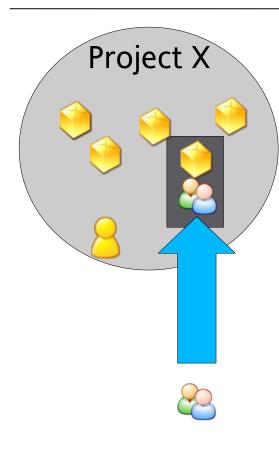
- + Immediate effect in project
- + fastest way to work on project
- Peer review only
- Can block finish package building
- Everybody can add/remove packages

* Defined users 🚱 can do everything





Future Source Handling Process II



Open Packages:

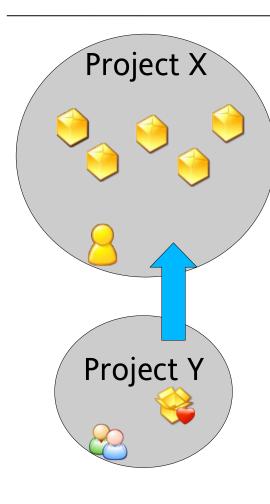
- + Immediate effect in packages
- + fastest way to work on package
- Peer review only
- Can block finish package building

* Admin (<u>B</u>) defines used packages





Future Source Handling Process III

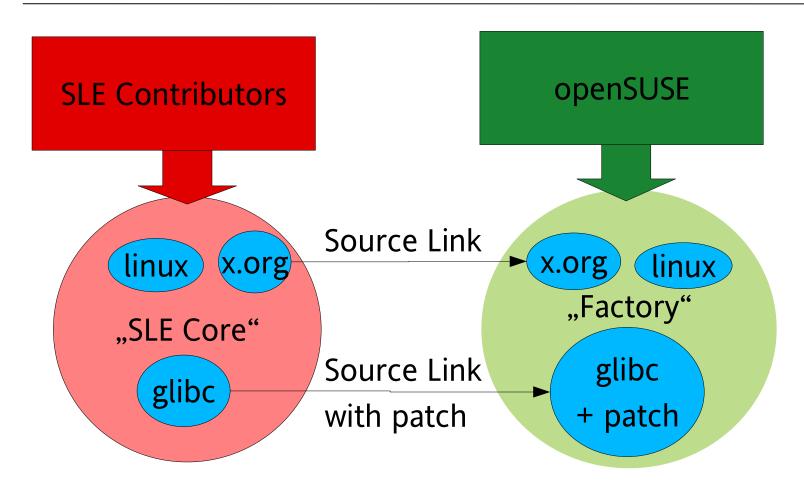


Closed Project:

- + Review before check-in
- + QA happens before check-in
- + Time coordinate check-ins
- Slows down development in X
- * Admin (<u>S</u>) merges requested changes or refused with given reason

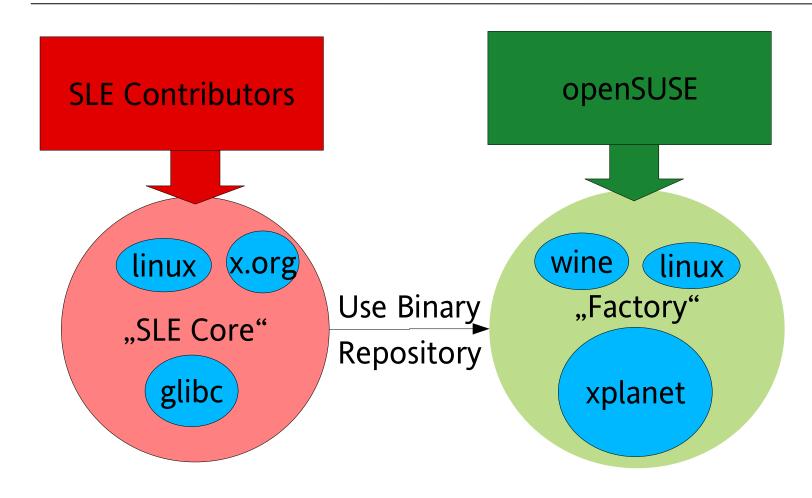


A Possible Example Setup





Another Possible Example Setup





Missing Parts



Missing Components

- Efficient patch handling
- Merge handling
- Defined package requirements for Factory
 - -> en.opensuse.org/Contribute
- User Trust Relationship System
- Relation of bug statistics to packages
- Overall UI concept



General Disclaimer

This document is not to be construed as a promise by any participating company to develop, deliver, or market a product. Novell, Inc., makes no representations or warranties with respect to the contents of this document, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. Further, Novell, Inc., reserves the right to revise this document and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes. All Novell marks referenced in this presentation are trademarks or registered trademarks of Novell, Inc. in the United States and other countries. All third-party trademarks are the property of their respective owners.

This work is licensed under the Creative Commons Attribution-Noncommercial-Share Alike 2.5 License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc-sa/2.5/.

For other licenses contact author.



