



# The Review Framework in Open Build Service

**Jürgen Weigert**

(Ex-)Legal team

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2012-02-04

open**SUSE**®

<http://build.opensuse.org>



# Checks, Tests, Reviews, ...

→ 'Quality'

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→ 'Quality'

- At checkin time
  - \*.changes ? Source-validation, ...
- At build time
  - rpmlint, brp-scripts, ...
- At submit time
  - License check, security audit,  
project management, policies, ...

# Checks, Tests, Reviews, ...

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  - \*.changes ? Source-validation, ...
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# Implementation of Submission Reviews

- Extra stuff, that gets in my way!
- Apparently designed to make things harder ...

→ **Why?**

# Implementation of Submission Reviews

- Extra stuff, that gets in my way!
- Apparently designed to make things harder ...

→ **Why?**

→ **How?**

- It helps to know how the review processes are implemented!

# 'Why' and 'How' of Submission Reviews

- Apply when moving packages between projects.  
“when passing into somebody else's area of control”
- Strict. Cannot be worked around.
- Blocking. Requests are blocked until reviewed.
- Project specific.  
Project Managers can add reviewers to a project, applying to all incoming requests.
- Request specific.  
Sending and receiving party both can add additional reviewers.



# Logic of OBS Submission Reviews

- **AND** logic for approval. All listed reviewees must approve. Request waits for missing approvals. All reviewers are notified; they (can) work in parallel.
- **OR** logic for decline. The first disapproval rejects a request.
- **OR** logic for group members. Reviewers can be users or groups. In case of a group, any member can approve/decline on behalf of the group.

**Example?**



## Users of openSUSE:Factory

| User  | Roles                               |                          |                                     |                          |                          |
|---|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
|   | Maintainer                          | Bugowner                 | Reviewer                            | Downloader               | Reader                   |
|  Stephan Kulow (coolo) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## Groups

| Group          | Roles                               |                          |                                     |                          |                          | Actions |
|----------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|---------|
|                | Maintainer                          | Bugowner                 | Reviewer                            | Downloader               | Reader                   |         |
| autobuild-team | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |         |
| factory-auto   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |         |
| legal-auto     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |         |



**...when I try to  
submit ...**



- Overview
- Sources
- Repositories
- Revisions
- Requests
- Users
- Advanced

## perl-File-Unpack

An strong archive file unpacker, based on mime-types

File::Unpack is an unpacker for archive files (bz2/gz/zip/tar/cpio/iso/rpm/deb/cab/lzma/lz/rar/...) based on mime-types. We call it strong, because it is not fooled by file suffixes, or multiply wrapped packages.

It recursively descends into each archive found until it finally exposes all unpackable payload contents.

A precise logfile can be written, describing mimetypes and unpack actions. Most of the known archive file formats are supported. It allows simple shell-script-style plugins to add more.

### Information

- 3 files
- 7 errors
- 1 derived packages

### Actions

- Report Bug
- Download package
- Branch package

- CentOS\_5
- RHEL\_5
- SLE\_10
- SLE\_11
- openSUSE\_11.1
- openSUSE\_11.2
- openSUSE\_11.3
- openSUSE\_11.4

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CentOS\_5

RHEL\_5

SLE\_10

SLE\_11

## Informa

3 files

7 errors

1 derived packages

### Derived Packages

- home:jnweiger:branches:devel:languages:perl

Cancel

Branch package



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### Actions

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 Branch package

 CentOS\_5

 RHEL\_5

 SLE\_10

 SLE\_11

 openSUSE\_11.1

 openSUSE\_11.2

 openSUSE\_11.3

 openSUSE\_11.4

Filter: Status Packagename: perl-File-Unpack Repository Architecture Last time results:

|                                  | openSUSE_11.4 |              | openSUSE_12.1 |              | openSUSE_Factory |              | pure_factory |
|----------------------------------|---------------|--------------|---------------|--------------|------------------|--------------|--------------|
|                                  | i586          | x86_64       | i586          | x86_64       | i586             | x86_64       | x86_64       |
| <a href="#">perl-File-Unpack</a> | unresolvable  | unresolvable | unresolvable  | unresolvable | unresolvable     | unresolvable | unresolvable |

Updated at: 2012-02-02 17:26:48+01:00

### Legend

- **succeeded:** Package has built successfully and can be used to build further packages.
- **failed:** The package does not build successfully. No packages have been created. Packages that depend on this created packages, if they exist.
- **unresolvable:** The build can not begin, because required packages are either missing or not explicitly defined.
- **broken:** The sources either contain no build description (e.g. specfile), automatic source processing failed or a n
- **blocked:** This package waits for other packages to be built. These can be in the same or other projects.
- **scheduled:** A package has been marked for building, but the build has not started yet.
- **dispatching:** A package is being copied to a build host. This is an intermediate state before building.
- **building:** The package is currently being built.



Filter: Status Packagename: perl-File-Unpack Repository Architecture Last time results:

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|------------------|---------------|--------------|---------------|--------------|------------------|--------------|--------------|
|                  | i586          | x86_64       | i586          | x86_64       | i586             | x86_64       | x86_64       |
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Updated at: 2012-02-02 17:26:48+01:00

nothing provides upx

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# Source Files

| Filename                                 | Size    | Changed   | Actions |
|--|---------|-----------|---------|
| <a href="#">perl-File-Unpack.spec</a>    | 7.3 KB  | 1 day ago |         |
| <a href="#">perl-File-Unpack.changes</a> | 9.5 KB  | 1 day ago |         |
| <a href="#">File-Unpack-0.52.tar.gz</a>  | 79.8 KB | 1 day ago |         |

Add file

## Latest Revision

[Juergen Weigert \(jnweiger\)](#) committed 1 day ago (revision 47)

- 0.52 - logfile: input menitoned on 'passed' items.
- Makefile.PL now actually installs file\_unpack (rt#73670).

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### File perl-File-Unpack.spec of Package perl-File-Unpack

Find  A/a  RegEx  Replace  All

```

89 ## to see what we might need:
90 # grep '# Requires: ' Unpack.pm helper/*
91
92 %if 0%{?suse_version} > 1110
93 # 11.1 and SLES11 say: unresolvable: nothing provides xz
94 BuildRequires: xz
95 Requires: xz
96 %else
97 Recommends: xz
98 %endif
99
100 %if 0%{?suse_version} > 1010
101 # SLES10 says: nothing provides poppler-tools
102 BuildRequires: poppler-tools
103 Requires: poppler-tools
104 %else
105 Recommends: poppler-tools
106 %endif
107
108 ## The following BuildRequires is for testing existence only.
109 ## If you cannot provide a package, you may remove it from both BuildRequires
110 ## and Requires, and move it over to Recommends.
111 BuildRequires: binutils bzip2 cabextract cpio genisoimage gzip p7zip rpm sharutils tar unzip upx
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113 Recommends: unrar poppler-tools xz
114
115 %if 0%{?suse_version} < 1140
116 Requires: perl = %{perl_version}
117 %else

```



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A precise logfile can be written, describing mimetype Most of the known archive file formats are supported script-style plugins to add more.

Authors: ----- Jürgen Weigert <jw@suse.de>

#### Information

- 3 files
- 6 error
- 1 derived packages

#### Actions

- Report Bug
- Download package
- Branch package
- Submit package
- Edit description
- Delete package

### Build Status

|                         |        |              |
|-------------------------|--------|--------------|
| <b>openSUSE_11.1</b>    | i586   | disabled     |
|                         | x86_64 | disabled     |
| <b>openSUSE_11.2</b>    | i586   | disabled     |
|                         | x86_64 | disabled     |
| <b>openSUSE_11.3</b>    | i586   | disabled     |
|                         | x86_64 | disabled     |
| <b>openSUSE_11.4</b>    | i586   | unresolvable |
|                         | x86_64 | building     |
| <b>openSUSE_12.1</b>    | i586   | unresolvable |
|                         | x86_64 | unresolvable |
| <b>openSUSE_Factory</b> | i586   | unresolvable |
|                         | x86_64 | unresolvable |
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### Build Status

|                         |        |              |
|-------------------------|--------|--------------|
| <b>openSUSE_11.1</b>    | i586   | disabled     |
|                         | x86_64 | disabled     |
| <b>openSUSE_11.2</b>    | i586   | disabled     |
|                         | x86_64 | disabled     |
| <b>openSUSE_11.3</b>    | i586   | disabled     |
|                         | x86_64 | disabled     |
| <b>openSUSE_11.4</b>    | i586   | building     |
|                         | x86_64 | building     |
| <b>openSUSE_12.1</b>    | i586   | building     |
|                         | x86_64 | building     |
| <b>openSUSE_Factory</b> | i586   | blocked      |
|                         | x86_64 | blocked      |
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#### Actions

- Report Bug
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- Submit package
- Edit description
- Delete package

### Build Status

|                         |                            |
|-------------------------|----------------------------|
| <b>openSUSE_11.1</b>    | i586 disabled              |
|                         | x86_64 disabled            |
| <b>openSUSE_11.2</b>    | i586 disabled              |
|                         | x86_64 disabled            |
| <b>openSUSE_11.3</b>    | i586 disabled              |
|                         | x86_64 disabled            |
| <b>openSUSE_11.4</b>    | i586 <b>building</b>       |
|                         | x86_64 <b>finished</b>     |
| <b>openSUSE_12.1</b>    | i586 <b>building</b>       |
|                         | x86_64 <b>succeeded</b>    |
| <b>openSUSE_Factory</b> | i586 <b>blocked</b>        |
|                         | x86_64 <b>blocked</b>      |
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#### Information

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- 3 error
- 1 derived packages

#### Actions

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### Build Status

nothing provides shared-mime-info >= 0.60, nothing provides file >= 5.03, nothing provide p7zip

| Project          | Architecture | Status       |
|------------------|--------------|--------------|
| openSUSE_11.1    | i586         | unresolvable |
|                  | x86_64       | unresolvable |
| openSUSE_11.3    | i586         | disabled     |
|                  | x86_64       | disabled     |
| openSUSE_11.4    | i586         | succeeded    |
|                  | x86_64       | succeeded    |
| openSUSE_12.1    | i586         | succeeded    |
|                  | x86_64       | succeeded    |
| openSUSE_Factory | i586         | blocked      |
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|-------------------------|--------|--------------|
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|                         | x86_64 | disabled     |
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|                         | x86_64 | disabled     |
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|                         | x86_64 | succeeded    |
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|                         | x86_64 | disabled     |
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|                         | x86_64 | succeeded    |
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perl-File-MimeInfo

## Create Submit Request

Submit **perl-File-Unpack** in revision 48

From source project:

devel:languages:perl

To target project:

openSUSE:Factory

Description:

needed for internal review toolchain

Remove local package if request is accepted

Ok

Cancel

## Request #102516 (review)

### Actions

| Type   | Source                                  | Target           | Info |
|--------|---|------------------|------|
| submit | devel:languages:perl / perl-File-Unpack | openSUSE:Factory |      |

needed for internal review toolchain

## Reviews

| State | Type  | Reviewer     | Reviewer Comment |
|-------|-------|--------------|------------------|
| new   | group | legal-auto   |                  |
| new   | group | factory-auto | -                |



Add reviewer

Comment:

Revoke request

### Diff

## Request #102516 (review)

### Actions

| Type   | Source                                  | Target           | Info |
|--------|---|------------------|------|
| submit | devel:languages:perl / perl-File-Unpack | openSUSE:Factory |      |

needed for internal review toolchain

### Build results of devel:languages:perl / perl-File-Unpack

|                  |        |           |
|------------------|--------|-----------|
| CentOS_5         | i586   | unknown   |
| CentOS_5         | x86_64 | unknown   |
| openSUSE_11.1    | i586   | unknown   |
| openSUSE_11.1    | x86_64 | unknown   |
| openSUSE_11.2    | i586   | succeeded |
| openSUSE_11.2    | x86_64 | succeeded |
| openSUSE_11.3    | i586   | succeeded |
| openSUSE_11.3    | x86_64 | succeeded |
| openSUSE_11.4    | i586   | succeeded |
| openSUSE_11.4    | x86_64 | succeeded |
| openSUSE_12.1    | x86_64 | succeeded |
| openSUSE_12.1    | i586   | succeeded |
| openSUSE_Factory | i586   | succeeded |
| openSUSE_Factory | x86_64 | succeeded |
| pure_factory     | x86_64 | unknown   |

## Reviews

| State | Type  | Request |
|-------|-------|---------|
| new   | group | leg     |
| new   | group | fac     |

Add reviewer

Comment:

Revoke request

Diff

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|--------|---|------------------|------|
| submit | devel:languages:perl / perl-File-Unpack | openSUSE:Factory |      |

needed for internal review toolchain

## Reviews

| State | Type  | Reviewer     | Reviewer Comment   | Actions |
|-------|-------|--------------|--|---------|
| new   | group | legal-auto   | <div style="border: 1px solid gray; height: 20px; width: 100%;"></div> |         |
| new   | group | factory-auto | -  |         |



Add reviewer

Comment:

Revoke request

### Diff



## Request #102516 (review)

### Actions

| Type   | Source                                  | Target           | Info              |
|--------|---|------------------|-------------------|
| submit | devel:languages:perl / perl-File-Unpack | openSUSE:Factory | <a href="#">i</a> |

needed for internal review toolchain

## Reviews

| State | Type  | Reviewer     | Reviewer Comment                          |
|-------|-------|--------------|---|
| new   | group | legal-auto   | {"delegate": "new package r>3"} [+]       |
| new   | group | factory-auto | -   |
| new   | group | legal-team   | <b>{"delegate": "new package r&gt;3"}</b> |



Add reviewer

Revoke request

### Diff



## Request #102516 (review)

### Actions

| Type   | Source                                  | Target           | Info              |
|--------|---|------------------|-------------------|
| submit | devel:languages:perl / perl-File-Unpack | openSUSE:Factory | <a href="#">i</a> |

needed for internal review toolchain

## Reviews

| State    | Type  | Reviewer     | Reviewer Comment                          |
|----------|-------|--------------|---|
| accepted | group | legal-auto   | {"delegate": "new package r>3"} [+]       |
| new      | group | factory-auto | -   |
| new      | group | legal-team   | <b>{"delegate": "new package r&gt;3"}</b> |

 Add reviewer

Revoke request

### Diff

## Request #102516 (review)

### Actions

| Type   | Source                                  | Target           | Info |
|--------|---|------------------|------|
| submit | devel:languages:perl / perl-File-Unpack | openSUSE:Factory |      |

needed for internal review toolchain

## Reviews

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|----------|-------|--------------|---|
| accepted | group | legal-auto   | {"delegate": "new package r>3"} [+]       |
| new      | group | factory-auto | package is still building for openSUSE    |
| new      | group | legal-team   | <b>{"delegate": "new package r&gt;3"}</b> |



Add reviewer

Revoke request

### Diff

**...automated review?!**



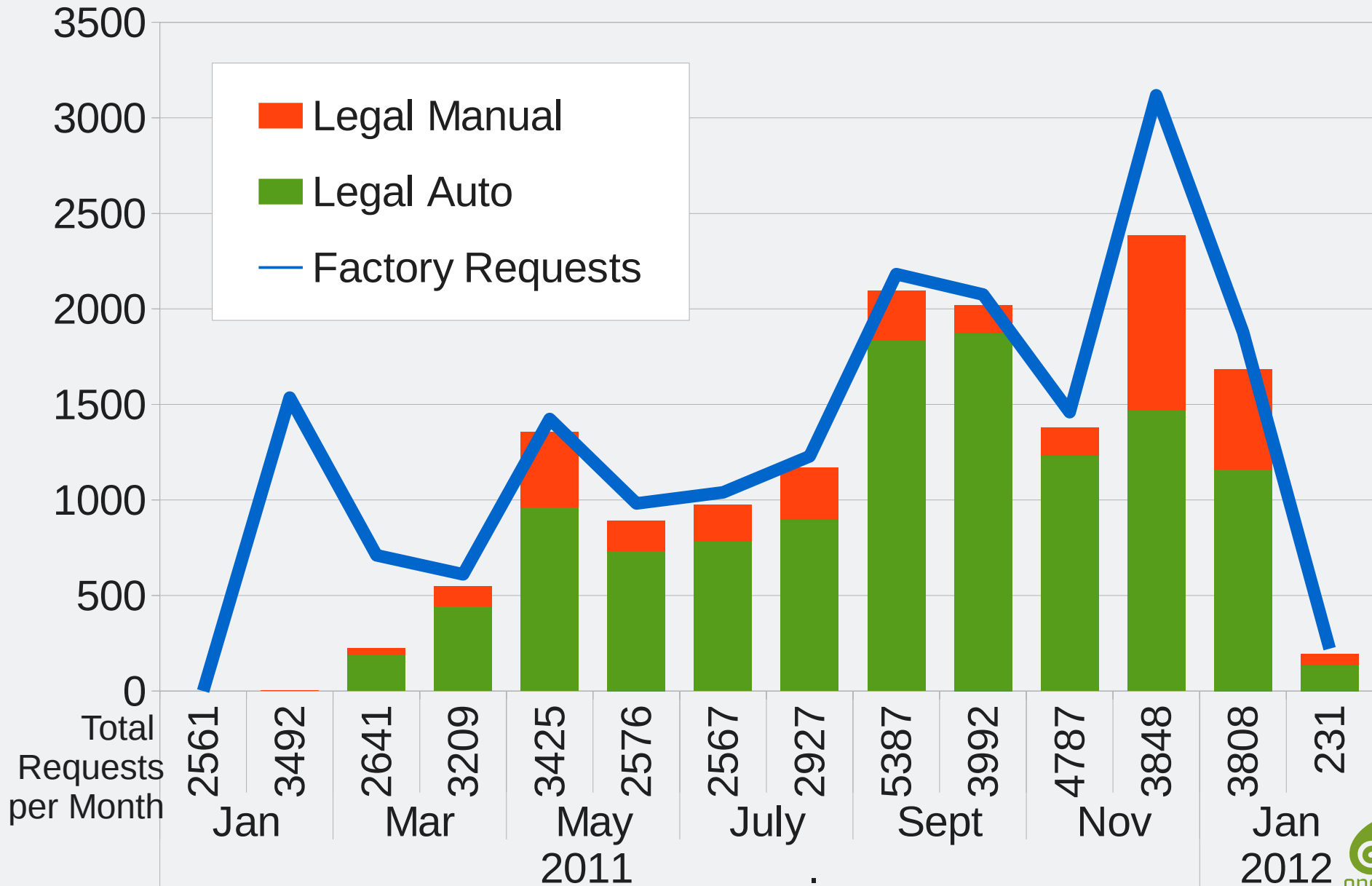
# Rules for automated Review

- Provide comments.  
All 'reasoning' should be made transparent.
- Do not decline.  
An automated decline is frustrating for users. Even with a perfectly sound explanation: do not decline.
- Possible actions are:
  - Wait (give hints, provide facts).
  - Approve
  - Delegate

# Use cases for automated Review

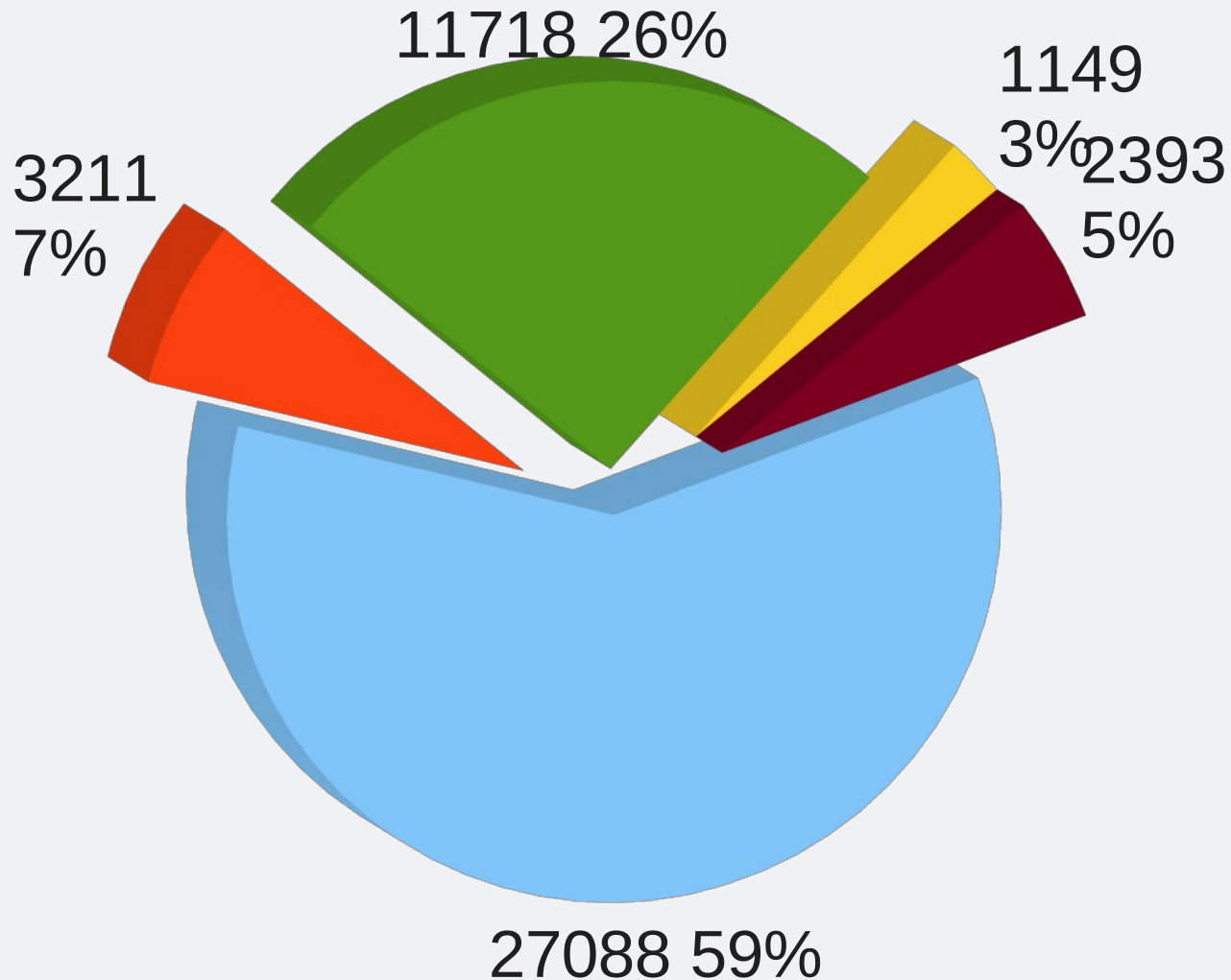
- Weed out broken packages. (**This does reject!**)  
While waiting, a request could become invalid. E.g.
  - package removed. Broken link. Merge conflict.
- Approve trivial cases.  
Reduce load on humans. Avoid boredom. E.g.
  - License name rewrite, because we join a standard SPDX naming scheme (e.g. GPLv2 → GPL-2.0)
  - no code change compared to earlier approval
- Provide results of automated tests to human reviewer.

# Legal Reviews for openSUSE:Factory



# Distribution of all Reviews

build.opensuse.org Jan.2011 – Feb.2012



- Home & Devel
- F: w/o Review
- F: 'early' Reject
- F: Legal Auto  
73% of Factory
- F: Legal Manual  
17% of Factory



# Are you a reviewer?

- Do you want to help?  
Tell the project managers.
- You never know.  
Somebody might think you should review something.  
Subscribe to **My incoming Review Tasks** on hermes!





### openSUSE Build Service: Request Notifications

#### OBS Request Create

*Receive a notification when a request is created.*

- My incoming Requests  
*All requests where you are listed in the target project.*

E-mail

No digest / in

#### OBS Request Change

*Receive a notification when a request state is changed.*

- My created Requests  
*All requests you are the author of.*

E-mail

No digest / in

- My incoming Requests  
*All requests where you are listed in the target project.*

E-mail

No digest / in

#### OBS Review Requests

*Receive a notification when somebody asks you for a review of a request.*

- My incoming Review Tasks  
*All reviews of requests where you are involved.*

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No digest / in



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# Interfaces ...

The image displays several screenshots of the openSUSE Build Service (OBS) web interface:

- Top Left:** "Welcome to the openSUSE Build Service" page. It includes a navigation menu (Downloads, Support, Community, Development) and a main heading. Below the heading, there is introductory text about the OBS platform and a "Proceed to:" section with links for "List of All Projects", "Search", and "Status Monitor".
- Top Middle:** "Kamoso" project page. It features a "Create submit request" form with fields for "Project" (multimediaapps), "Package" (Kamoso), and "Description" (Kamoso is cool!). There are also "Actions" like "Report Bug", "Delete Package", and "Submit Package".
- Top Right:** "Build Status" page. It shows a table of build results for various distributions and architectures. For example, CentOS\_5 has 30 succeeded, 14 failed, and 59 unresolvable builds. The table includes columns for distribution, architecture, and counts for different build statuses.
- Bottom Right:** "Status Messages" and "Workers" sections. The "Status Messages" section lists recent announcements. The "Workers" section shows a grid of worker status indicators for various build environments, with columns for worker ID, distribution, architecture, and status.



# Interfaces ...

The image displays several screenshots of the openSUSE Build Service (OBS) web interface. The top-left screenshot shows the 'Welcome to the openSUSE Build Service' page. The top-middle screenshot shows the 'Build Status' page for the 'Kamoso' project, listing build results for various architectures like i586 and x86\_64. The top-right screenshot shows the 'Status Messages' and 'Scheduler Status' sections. The bottom-right screenshot shows a detailed view of the 'Workers' section, displaying a grid of worker nodes and their current jobs.

```
$ osc branch --checkout openSUSE:Factory PACKAGE
$ cd home:USER:branches:PROJECT:PACKAGE
$ vi *.spec
$ osc checkin -m "..."
$ osc submitpac
$
```

**... enough web GUI,  
try the shell ...**



# Reviewing on the command line

## Request handling

```
sudo zypper install osc
```

```
osc request list [-M] [-U USER] [-D DAYS] [...] [PRJ] [PKG]
```

```
osc my requests
```

```
osc request show [-d] [-b] ID
```

```
osc request ACTION . . .
```

frequently used *ACTIONS*:

accept, decline, revoke, checkout, ...

```
osc help review
```



# Reviewing on the command line

## Managing reviews

```
osc review list [-U USER] [-G GROUP] [-P PRJ [-p PKG]] [...]
```

```
osc review ACTION ...
```

frequently used *ACTIONS*:

add, accept, decline, reopen, ...

```
osc help review
```



# Legal review interface

```
sudo zypper install osc-legal-plugin
```

```
osc legal list [-manual]
```

```
osc legal auto [-n]
```

```
osc legal checkout [-d DIRECTORY]
```

```
osc help legal
```

# \$ osc legal logic

```
if src.package == '_product':
    return r('approve', 'innocent meta package')

if src.version == 'unknown':
    return r('delegate', 'failed to read version number
from build service')
if src.error: return r('reject', 'source: '+src.error)
if dest.error: return r('reject', 'target: '+dest.error)

if src.package != dest.package:
    hint.append("src('%s') and dest('%s') package names
differ" % (src.package, dest.package))

if src.version != dest.version:
    hint.append("src('%s') and dest('%s') version
numbers differ" % (src.version, dest.version))

if src.license_diff is not None:
    hint.append("license change: %s"
% src.license_diff)
```



# Notes on writing auto review code

- legal auto reviews are done by user 'licensedigger', which is registered with OBS as a regular user.
- A group 'legal-auto' was created, including licensedigger and also all the members of 'legal-manual' (this helps debugging...)
- `osc legal auto` is run as a cron job. It needs to authenticate against the buildservice API. Where to store the credentials?
- The osc-legal plugin allows members of the legal-manual group to switch role to the licensedigger user, when running `osc legal auto`.
- Powered by the osc plugin API, thanks!





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