The Review Framework in Open Build Service

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2012-02-04
http://build.opensuse.org
Checks, Tests, Reviews, ...

→ 'Quality'
Checks, Tests, Reviews, ...

→ '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, ...**

- **At checkin time**
  
  
  *
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- **At build time**

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- **At submit time**

  License check, security audit, project management, policies ...
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 reviewers 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

<table>
<thead>
<tr>
<th>User</th>
<th>Roles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephan Kulow (coolo)</td>
<td>Maintainer</td>
</tr>
<tr>
<td><img src="image" alt="Avatar" /></td>
<td>✓</td>
</tr>
</tbody>
</table>

### Groups

<table>
<thead>
<tr>
<th>Group</th>
<th>Roles</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>autobuild-team</td>
<td>Maintainer</td>
<td>✓</td>
</tr>
<tr>
<td>factory-auto</td>
<td>Bugowner</td>
<td></td>
</tr>
<tr>
<td>legal-auto</td>
<td>Reviewer</td>
<td>✓</td>
</tr>
</tbody>
</table>
...when I try to submit ...
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/7z/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 mimetype and unpack actions. Most of the known archive file formats are supported. It allows simple shell-script-style plugins to add more.
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Derived Packages

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

Cancel
perl-File-Unpack

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Information

3 files
7 errors
1 derived packages

Actions

Report Bug
Download package
Branch package
## 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 name conflict exists.
- **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.

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

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</thead>
<tbody>
<tr>
<td>perl-File-Unpack.spec</td>
<td>7.3 KB</td>
<td>1 day ago</td>
<td></td>
</tr>
<tr>
<td>perl-File-Unpack.changes</td>
<td>9.5 KB</td>
<td>1 day ago</td>
<td></td>
</tr>
<tr>
<td>File-Unpack-0.52.tar.gz</td>
<td>79.8 KB</td>
<td>1 day ago</td>
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</tr>
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### Latest Revision

Juergen Weigert (jnweiger) committed 1 day ago (revision 47)

- 0.52 - logfile: input mention 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

```plaintext
## to see what we might need:

# grep '# Requires:' Unpack.pm helper/*

%if 0%{?suse_version} > 1110

# 11.1 and SLES11 say: unresolvable: nothing provides xz

BuildRequires:  xz
Requires:      xz
%else
Recommends:   xz
%endif

%if 0%{?suse_version} > 1010

# SLES10 says: nothing provides poppler-tools

BuildRequires:  poppler-tools
Requires:      poppler-tools
%else
Recommends:   poppler-tools
%endif

## The following BuildRequires is for testing existence only.
## If you cannot provide a package, you may remove it from both BuildRequires
## and Requires, and move it over to Recommends.

BuildRequires:  binutils bzip2 cabextract cpio genisoimage gzip p7zip rpm sharutils tar unzip upx
Requires:      binutils bzip2 cabextract cpio genisoimage gzip p7zip rpm sharutils tar unzip upx
Recommends:   unRAR poppler-tools xz

%if 0%{?suse_version} < 1140

Requires:      perl = %{perl_version}
%else
```


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

```plaintext
## to see what we might need:
# grep '# Requires: ' Unpack.pm helper/*

if %{suse_version} > 1110
# 11.1 and SLES11 say: unresolvable: nothing provides xz
BuildRequires: xz
Requires: xz
else
Recommends: xz
endif

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BuildRequires: poppler-tools
Requires: poppler-tools
else
Recommends: poppler-tools
endif

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Recommends: unrar poppler-tools xz upx

if %{suse_version} < 1140
Requires: perl = %{perl_version}
else
```

---

Notes:

- The spec file specifies requirements for different versions of SUSE Linux Enterprise (SLES) versions 11 and 10.
- The `BuildRequires` section lists tools that are required for building the package.
- The `Requires` section lists the packages that the package depends on.
- The `Recommends` section lists additional packages that are recommended, but not required.
- The `if` statements check for specific versions of SUSE Linux Enterprise and adjust the requirements accordingly.
- The `perl = %{perl_version}` line is used to specify the Perl version requirement for the package.
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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:

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Information

- 3 files
- 6 error
- 1 derived packages

Actions

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

<table>
<thead>
<tr>
<th>Package</th>
<th>i586</th>
<th>x86_64</th>
</tr>
</thead>
<tbody>
<tr>
<td>openSUSE_11.1</td>
<td>disabled</td>
<td>disabled</td>
</tr>
<tr>
<td>openSUSE_11.2</td>
<td>disabled</td>
<td>disabled</td>
</tr>
<tr>
<td>openSUSE_11.3</td>
<td>disabled</td>
<td>disabled</td>
</tr>
<tr>
<td>openSUSE_11.4</td>
<td>disabled</td>
<td>disabled</td>
</tr>
<tr>
<td>openSUSE_12.1</td>
<td>building</td>
<td>building</td>
</tr>
<tr>
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<td>building</td>
<td>blocked</td>
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Information

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---

Build Status

- openSUSE_11.1: disabled
- openSUSE_11.2: disabled
- openSUSE_11.3: disabled
- openSUSE_11.4: building
- openSUSE_Factory: building
- pure_factory: unresolvable
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 dashes

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nothing provides shared-mime-info >= 0.60, nothing provides file >= 5.03, nothing provides p7zip
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</tr>
<tr>
<td>openSUSE_11.3</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>openSUSE_11.4</td>
</tr>
<tr>
<td></td>
</tr>
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Information

- 3 files
- 1 error
- 1 derived packages

Actions

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

Build Status

- openSUSE_11.1: i586 disabled
- openSUSE_11.2: x86_64 disabled
- openSUSE_11.3: i586 disabled
- openSUSE_11.4: x86_64 succeeded
- openSUSE_Factory: i586 succeeded
- pure_factory: x86_64 unresolvable
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Source</th>
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</tr>
</thead>
<tbody>
<tr>
<td>submit</td>
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</table>

needed for internal review toolchain

Reviews

<table>
<thead>
<tr>
<th>State</th>
<th>Type</th>
<th>Reviewer</th>
<th>Reviewer Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>new</td>
<td>group</td>
<td>legal-auto</td>
<td></td>
</tr>
<tr>
<td>new</td>
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</tbody>
</table>

Add reviewer

Comment:

Revoke request

Diff
### Request #102516 (review)

#### Actions

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#### Reviews

<table>
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<tr>
<th>State</th>
<th>Type</th>
<th>Remarks</th>
<th>Source</th>
<th>Architecture</th>
<th>Result</th>
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<tbody>
<tr>
<td>new</td>
<td>group</td>
<td>legacy</td>
<td>CentOS_5</td>
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<tr>
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Add reviewer

Comment:

Revoke request
**Request #102516 (review)**

**Actions**

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<th>Type</th>
<th>Source</th>
<th>Target</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>submit</td>
<td>devel:languages:perl / perl-File-Unpack</td>
<td>openSUSE:Factory</td>
<td></td>
</tr>
</tbody>
</table>

needed for internal review toolchain

**Reviews**

<table>
<thead>
<tr>
<th>State</th>
<th>Type</th>
<th>Reviewer</th>
<th>Reviewer Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>new</td>
<td>group</td>
<td>legal-auto</td>
<td>{&quot;delegate&quot;: &quot;new package r&gt;3&quot;} [+]</td>
</tr>
<tr>
<td>new</td>
<td>group</td>
<td>factory-auto</td>
<td>-</td>
</tr>
<tr>
<td>new</td>
<td>group</td>
<td>legal-team</td>
<td>{&quot;delegate&quot;: &quot;new package r&gt;3&quot;}</td>
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## Request #102516 (review)

### Actions

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Needed for internal review toolchain.

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<td>accepted</td>
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<td>{&quot;delegate&quot;: &quot;new package r&gt;3&quot;} [+]</td>
</tr>
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Add reviewer

Revoke request

Diff
Request #102516 (review)

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needed for internal review toolchain

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<tr>
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<td>group</td>
<td>factory-auto</td>
<td>package is still building for openSUSE</td>
</tr>
<tr>
<td>new</td>
<td>group</td>
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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.

• 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

- Legal Manual
- Legal Auto
- Factory Requests

Total Requests per Month:

- Jan 2011: 2561
- Mar 2011: 3209
- May 2011: 3425
- Jul 2011: 2927
- Sept 2011: 5387
- Nov 2011: 3992
- Jan 2012: 4787
- Mar 2012: 3848
- May 2012: 3808
- Jul 2012: 231
Distribution of all Reviews

- 27088 59%
- 11718 26%
- 1149 3%
- 2393 5%
- 3211 7%

- 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!
<table>
<thead>
<tr>
<th>OBS Request Create</th>
<th>My incoming Requests</th>
<th>E-mail</th>
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<tr>
<td>OpenSUSE Build Service: Request Notifications</td>
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<td></td>
<td></td>
</tr>
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Interfaces ...

Welcome to the openSUSE Build Service

The openSUSE Build Service (OBS) is an open and complete distribution development platform that provides a transparent infrastructure for development of the openSUSE distribution.

The openSUSE Build Service provides software developers with a convenient and easy-to-use tool to create and release open source software for openSUSE and other Linux distributions like Ubuntu, Fedora, Mandriva and Debian on different hardware architectures and for a broad user audience. In addition to that, you can also build applications inside of the OBS based on the packages you have before.

With the openSUSE Build Service, you can easily find the latest open source packages they are looking for and customize them. For developers it is an efficient place to build up groups and work together through its project model.

The openSUSE Build Service developer teams is greeting you. In case you use your OBS productive in your factory, please do us a favor and add yourself at this wiki page. Have fun and test build trees!

Process:
- List of All Projects
- Search
- Status Monitor

System STATUS

Kamino

Kamino is an application you can use to build and release software packages for openSUSE and other Linux distributions like Ubuntu, Fedora, Mandriva and Debian on different hardware architectures and for a broad user audience. In addition to that, you can also build applications inside of the OBS based on the packages you have before.

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Interfaces ...

$ 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

```bash
sudo zypper install osc-legal-plugin
osc legal list [-manual]
osc legal auto [-n]
osc legal checkout [-d DIRECTORY]
```

```bash
osc help legal
```
$ osc legal logic

```python
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!
opensuse.org

planet.opensuse.org

opensuse.org/Portal:How_to_participate

opensuse.org/Junior_jobs

features.opensuse.org

build.opensuse.org

#opensuse-project
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Me: Merlijn Hoek
Hard at work: anzaq78
Newcomers: abcrumly
Join the gang: malingering

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