



# Release Notes

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## SUSE Linux Enterprise Software Development Kit 12 SP2

These release notes are generic for all products based on SUSE Linux Enterprise Software Development Kit 12 SP2.

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# 1 SUSE Linux Enterprise Software Development Kit

The SUSE Linux Enterprise Software Development Kit (SDK) can be used for SUSE Linux Enterprise Server and SUSE Linux Enterprise Desktop.

Several packages that are either only on SLES or only on SLED, but needed for the SDK, have been added to the SDK for convenience. The presence of those packages on the SDK does not indicate any support or maintenance entitlement. If you only have a support contract for SLED you are not automatically entitled to support for SLES packages on the SDK and vice versa.

As the SDK is targeting SLES and SLED, it may contain packages which are only useful and can only be installed in combination with one of SLES and SLED, not with both. This is a feature not a bug.

You should be able to re-build any package on SLES or SLED with the SDK media.

If you are missing packages on the media, file a bug in the SUSE Bugzilla system (<http://bugzilla.suse.com> ). You may also find additional unsupported packages on openSUSE (<http://www.opensuse.org> .



## Note

For various technical reasons not all SDK packages are available on all SLES hardware architectures.

The SDK does not come with a maintenance or support entitlement. From time to time, SUSE may release package updates and security fixes online.


If you add the SDK during installation, online update repositories for the SDK are added when you register your product.

If you have added the SDK later, run the SUSE Customer Center Configuration in YaST. This will add the SDK update sources to your configuration. You will not have to re-enter your registration data for this.

## 2 SDK Features

## 2.1 New Packages for Protocol Buffers Available

libprotobuf9 protobuf-devel has been added to the SDK to allow you to develop applications with the Protocol buffers language.

Protocol buffers are a language-neutral, platform-neutral, extensible mechanism for serializing structured data – similar to XML, but smaller, faster, and simpler. You define how you want your data to be structured once, then you can use special generated source code to easily write and read your structured data to and from a variety of data streams and using a variety of languages. For more information, see <https://developers.google.com/protocol-buffers/> .

## 2.2 GNOME Builder IDE Has Been Added

The SLE SDK now ships with GNOME Builder which is a new Integrated Development Environment specifically for GNOME application developers.

## 2.3 Byebug Has Been Added

Byebug is a simple-to-use, feature-rich Ruby 2 debugger that is also used to debug YaST. It uses the TracePoint API and the Debug Inspector API. For speed, it is implemented as a C extension. It allows you to see what is going on inside a Ruby program while it executes and offers traditional debugging features such as stepping, breaking, evaluating, and tracking.

# 3 Packages and Functionality Changes

## 3.1 New Packages

### 3.1.1 libxapian22 and libxapian-devel Have Been Added

The SLE 12 SP2 SDK now ships with Xapian. Xapian is an open-source search engine library, released under the GPL v2+. It is written in C++ and has bindings to allow use from Perl, Python, PHP, Java, Tcl, C#, Ruby, Lua, Erlang and Node.js.


## 3.2 Deprecated Functionality

### 3.2.1 `librpcsecgss3` Has Been Removed

`librpcsecgss` (packages: `librpcsecgss3`, `librpcsecgss-devel`) has been removed. With the release of `libtirpc`, the development of `libsecgss` stopped and it fell out of use. We recommend using `libtirpc` instead.

### 3.2.2 Packages for YaST Developer Documentation Have Been Dropped

*All packages containing developer documentation relating to YaST were dropped from the distribution. This affects all packages following the naming scheme `yast2-*-devel-doc`.*

The `yast2-*-devel-doc` packages are not needed any more. With YaST now being written in Ruby and hosted on GitHub, documentation can now be generated online. It can be accessed at <http://www.rubydoc.info/find/github?q=yast> .

## 4 Providing Feedback to Our Products

On the top level of the first product medium you will find a detailed ChangeLog file. For more information, also see the READMEs there.

In case of encountering a bug, please report it through your support contact.

Your SUSE Linux Enterprise Team

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