

# syslog-ng Open Source Edition 3.22

## Release Notes

### July 2019

These release notes provide information about the syslog-ng Open Source Edition release.

## Supported platforms

The syslog-ng Open Source Edition application is highly portable and is known to run on a wide range of hardware architectures (x86, x86\_64, SUN Sparc, PowerPC 32 and 64, Alpha) and operating systems, including Linux, BSD, Solaris, IBM AIX, HP-UX, Mac OS X, Cygwin, Tru64, and others.

- The source code of syslog-ng Open Source Edition is released under the GPLv2 license and is [available on GitHub](#).
- See the [Downloads page](#) for binary packages.

## What is new in syslog-ng Open Source Edition 3.22?

Version 3.22 of syslog-ng Open Source Edition includes the following main features.

### Dynamic flow-control

Starting with version 3.22, syslog-ng OSE uses the `log-iw-size()` option to allocate a static message window to every flow-controlled log path using the `network()` and `syslog()` drivers. In addition, you can configure a dynamic memory buffer that syslog-ng OSE can use to dynamically increase the message window of flow-controlled log paths that have higher traffic. This can be useful in low-memory environments, where only a small subset of the active clients sends messages at high rate.

As a result of these changes the `log-fifo-size()` option only affects log paths that are not flow-controlled. It is expected that after configuring the dynamic message window, you can decrease the value of `log-fifo-size()`. For details, see ["Managing incoming and outgoing messages with flow-control"](#) in the Administration Guide.

**⚠ CAUTION:**

**Flow control and the `log-fifo-size()` option works differently starting with syslog-ng OSE 3.22 to avoid dropping flow-controlled messages when `log-fifo-size()` is misconfigured. From now on, `log-fifo-size()` only affects log paths that are not flow-controlled. (Flow-controlled log paths have a file destination, or have the `flags(flow-control)` option set.)**

**The new behavior is automatically enabled when you update your the @version string in your configuration file. Consider lowering the value of `log-fifo-size()` option after updating the @version string. For details, see ["Managing incoming and outgoing messages with flow-control"](#) in the Administration Guide.**

## SNMP destination

You can now send SNMP traps directly from syslog-ng OSE using the `snmp()` destination driver. For details, see ["snmp: Sending SNMP traps"](#) in the Administration Guide.

## Dynamic template function

A new template function called `template` can resolve static and dynamic templates in template functions. For example, the name of the template to be invoked can be extracted from the message, or from a name-value pair set using the `add-contextual-data()` feature. For details, see ["Template functions of syslog-ng OSE"](#) in the Administration Guide.

## Floating point calculations and numerical template functions

Numerical template functions can now handle floating-point numbers. For details, see the [ceil, floor, numerical operations, and round template functions](#).

## Enhancements

- HTTP-based destinations can now accept multiple URLs in various formats.
- The message rate of the `loggen` command can be changed while `loggen` is running. Send `SIGUSR1` to double the message rate, or `SIGUSR2` to halve it, for example:  
`kill -USR1 <loggen-pid>`
- The Check Point Log Exporter parser can now parse Check Point log messages in the Splunk format. For details, see ["Check Point Log Exporter parser"](#) in the Administration Guide.
- New constants are available in the `fetch` method of the Python source. For details, see ["python-fetcher: writing fetcher-style Python sources"](#) in the Administration Guide.

- Global option can be defined in reusable blocks. For details, see ["Reusing configuration blocks" in the Administration Guide](#).
- The `date-parser()` now supports microseconds (%f). For details, see ["Options of date-parser\(\) parsers" in the Administration Guide](#).
- The value of `add-contextual-data()` selectors can be a template or a template function, not only a string. For details, see ["Adding metadata from an external file" in the Administration Guide](#).

## Resolved issues

For a detailed list of issues resolved in this release, see [syslog-ng Releases page](#).

## Known issues

For a detailed list of issues resolved in this release, see the [syslog-ng Issues page](#).

## Product licensing

Starting with version 3.2, the syslog-ng Open Source Edition application is licensed under a combined LGPL+GPL license. The core of syslog-ng OSE is licensed under the GNU Lesser General Public License Version 2.1 license, while the rest of the codebase is licensed under the GNU General Public License Version 2 license.

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## Upgrade and installation instructions

To install or upgrade syslog-ng Open Source Edition, follow the instructions in the syslog-ng Open Source Edition Administration Guide.

# More resources

Additional information is available from the following:

- [Online product documentation](#)

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of [Section 6](#). Any executables containing that work also fall under [Section 6](#), whether or not they are linked directly with the Library itself.

## Section 6

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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distributed under [Section 1](#) and [Section 2](#) above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- b. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in [Subsection 6a](#), above, for a charge no more than the cost of performing this distribution.
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- e. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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## Section 7

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