

# syslog-ng Premium Edition 7.0.21

## Release Notes

### July 2020

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

## About this release

Welcome to syslog-ng Premium Edition (syslog-ng PE) version 7.0.21 and thank you for choosing our product. This document describes the new features and most important changes since the latest release of syslog-ng PE. The main aim of this paper is to aid system administrators in planning the migration to the new version of syslog-ng PE. The following sections describe the news and highlights of syslog-ng PE 7.0.21.

Starting with version 7, syslog-ng Premium Edition is released as a rolling release. For details, see the [Version policy](#).

## Supported platforms

The syslog-ng Premium Edition application is officially supported on the following platforms. Note that the following table is for general reference only, and is not always accurate about the supported platforms and options available for specific platforms. Unless explicitly noted otherwise, the subsequent releases of the platform (for example, Red Hat Enterprise Linux 7 and its update releases like 7.2) are also supported.

**Table 1: Platforms supported by syslog-ng Premium Edition**

	x86	x86_64	SPARC	SPARC64	PowerPC	IA64
CentOS 6	-	✓	-	-	-	-

	x86	x86_64	SPARC	SPARC64	PowerPC	IA64
CentOS 7	-	✓	-	-	-	-
CentOS 8	-	✓	-	-	-	-
Debian 8 (jessie)	-	✓	-	-	-	-
Oracle Linux 6	-	✓	-	-	-	-
Oracle Linux 7	-	✓	-	-	-	-
Red Hat EL 6	-	✓	-	-	-	-
Red Hat EL 7	-	✓	-	-	-	-
Red Hat EL 8	-	✓	-	-	-	-
SLES 12	-	✓	-	-	-	-
Ubuntu 16.04 LTS (Xenial Xerus)	-	✓	-	-	-	-
Ubuntu 18.04 LTS (Bionic Beaver)	-	✓	-	-	-	-

**⚠ CAUTION:**

Certain sources and destinations are not supported on every platform (particularly, the `sql()` destination, and the `hdfs()` destination). For details, see the description of the specific source and destination.

**⚠ CAUTION:**

If you are planning to use Python in syslog-ng PE (for example, [Python parser](#) or [Python template function](#)) on RHEL 6 platform, then you have to manually install Python 2.7. If the Python version on the machine is not 2.7, you will receive a similar error message during startup:

```
[2017-07-27T13:42:03.606679] Reading shared object for a candidate module:
path='/opt/syslog-ng/lib/syslog-ng', fname='mod-python.so', module='mod-python'
[2017-07-27T13:42:03.606994] Error opening plugin module: module='mod-python',
error='libpython2.7.so.1.0: cannot open shared object file: No such file or
directory'
```

For details about the syslog-ng Agent for Windows application, see the [syslog-ng Agent for Windows documentation](#). For an agent-less solution, see [the list of supported platforms](#).

For using syslog-ng PE on other platforms (for example, AIX, FreeBSD, HP-UX, Solaris, Microsoft Windows), see the list of supported platforms in the [syslog-ng PE version 6 Administration Guide](#).

# New features in syslog-ng PE 7.0.21

Version 7.0.21 of syslog-ng PE includes the following main features.

- Collecting messages from SQL databases with `mssql()`, `oracle()`, or `sql()` sources.
- Sending logs to the Google Cloud Pub/Sub messaging service with the `google_pubsub()` destination.
- You can set the value of the `fetch-no-data-delay()` option of the `office365()` source to fractions.
- Fraction second truncation: when the `frac-digits()` option is set to a value higher than 6, syslog-ng PE will truncate the fraction seconds in the timestamps after 6 digits.

## Resolved issues

The following is a list of issues addressed in this release.

**Table 2: General resolved issues in syslog-ng PE 7.0.21**

Resolved Issue	Issue ID
If syslog-ng PE was not able to create a templated file because the wrong path came from the message, it tried to create the file continuously instead of dropping the message. This has been fixed.	SYSLOGDEV-2833
Fixed a possible logstore memory leak in case of large log messages. The syslog-ng PE application will drop the message when it cannot be put into the logstore due to larger size than journal block size or when serializing error happens.	SYSLOGDEV-5165
Stackdriver: Fixed a crash in case of multiple, continuously occurring token update failures.	SYSLOGDEV-5383
Fixed incorrect fields of <code>lgstool cat</code> when template function was used without <code>seek</code> to a given record ID function.	SYSLOGDEV-5417

**Table 3: General resolved issues in syslog-ng PE 7.0.20**

Resolved Issue	Issue ID
Fixed checking if an idle file can be closed ( <code>time-reap()</code> option) Instead of closing a file if no new messages were written to a file within <code>time-reap()</code> seconds after the last activity, syslog-ng PE checked periodically if a file can be closed.	SYSLOGDEV-4357

<b>Resolved Issue</b>	<b>Issue ID</b>
OpenSSL upgraded to version 1.1.1g	SYSLOGDEV-5290
Fixed a possible memory leak in logstore when a message cannot be stored and serialized correctly.	SYSLOGDEV-5364

**Table 4: General resolved issues in syslog-ng PE 7.0.19**

<b>Resolved Issue</b>	<b>Issue ID</b>
OpenSSL upgraded to version 1.1.1d	SYSLOGDEV-5113
File source cannot process new message when the log-msg-size() option is increased after reading a longer message.	SYSLOGDEV-5044
The log_id() option is mandatory for the stackdriver() destination	SYSLOGDEV-4726
Added the multi-line-timeout() option for file source.	SYSLOGDEV-3830

**Table 5: General resolved issues in syslog-ng PE 7.0.18**

<b>Resolved Issue</b>	<b>Issue ID</b>
Configuration objects preceded by an inline destination are ignored	SYSLOGDEV-4975
The loggen tool does not run when installed from dot run installer into a custom directory	SYSLOGDEV-5001
Monitoring source does not set the log level correctly	SYSLOGDEV-5026
Memory leak during reading logstores	SYSLOGDEV-5036
http() destination ignores the frac-digits() global setting	SYSLOGDEV-5057

**Table 6: General resolved issues in syslog-ng PE 7.0.17**

<b>Resolved Issue</b>	<b>Issue ID</b>
WEC: handle invalid UTF-16 characters gracefully	SYSLOGDEV-4182
Fix TID reinitialization mechanism in ALTP during restart	SYSLOGDEV-4333
splunk-hec(): Fix an error in handling indexed fields	SYSLOGDEV-4689
Fix persist structure during upgrade from PE version 6	SYSLOGDEV-4787

<b>Resolved Issue</b>	<b>Issue ID</b>
RPM upgrade overwrites WEC configuration	SYSLOGDEV-4812
Reliable disk queue corruption fixes	SYSLOGDEV-4826
ALTP ack_timeout fix	SYSLOGDEV-4835
WEC: forwarded logs have incorrect hostname	SYSLOGDEV-4847
OpenSSL upgraded to 1.0.2t	SYSLOGDEV-4981
OpenSSL upgraded to 1.1.0l on Ubuntu Bionic	SYSLOGDEV-4982

**Table 7: General resolved issues in syslog-ng PE 7.0.16**

<b>Resolved Issue</b>	<b>Issue ID</b>
Crash in patterndb during context timeout	SYSLOGDEV-4945
Memory leak in dbparser	SYSLOGDEV-4925
OpenSSL upgraded to 1.1.0k on Bionic platform	SYSLOGDEV-4831
OpenSSL upgraded to 1.0.2s	SYSLOGDEV-4829
syslog-ng hangs under high load	SYSLOGDEV-4745
Incorrect numerical operators in filter statements	SYSLOGDEV-4785
Bad quotation in splunk-hec() destination prevents load-balancing working correctly	SYSLOGDEV-4794
http destination should give a warning if workers() is less than urls()	SYSLOGDEV-4929
geoip2 does not include IP address in the error messages	SYSLOGDEV-4928
Infinite loop during reload	SYSLOGDEV-4927
Improve error handling in --preprocess-into	SYSLOGDEV-4926
Reset timezone on configuration reload	SYSLOGDEV-4924
Flushing destination on reload is slow	SYSLOGDEV-4923

<b>Resolved Issue</b>	<b>Issue ID</b>
Wildcard filesources crashes	SYSLOGDEV-4922

**Table 8: General resolved issues in syslog-ng PE 7.0.14**

<b>Resolved Issue</b>	<b>Issue ID</b>
Crash in network source with ALTP due to idle timer	SYSLOGDEV-4711
OpenSSL 1.0.2r upgrade	SYSLOGDEV-4742
http-destination stuck when reverting to old configuration	SYSLOGDEV-4747
syslog-ng segmentation fault on statistics query	SYSLOGDEV-4759
WEC: Adds list support to Windowsevent-parser	SYSLOGDEV-4789

**Table 9: General resolved issues in syslog-ng PE 7.0.13**

<b>Resolved Issue</b>	<b>Issue ID</b>
Fix loggen parameters	SYSLOGDEV-4684
Fix seeking in logstore using lgstool cat command	SYSLOGDEV-4680
Empty disk queue truncate fix	SYSLOGDEV-4628
Memory leak during reload when using the app-parser	SYSLOGDEV-4564
Race condition during reload when using license-counter-reset	SYSLOGDEV-4540

**Table 10: General resolved issues in syslog-ng PE 7.0.12**

<b>Resolved Issue</b>	<b>Issue ID</b>
non-reliable diskq: fixes false positive corruption detection	SYSLOGDEV-4674
Dqtool reported disk queue corrupted false positively	SYSLOGDEV-4407
Append \$(basename) to filename template correctly	SYSLOGDEV-4673
SSL: Multiple ca-dir() related issues fixed	SYSLOGDEV-4669
Fix frequent disconnects of syslog() driver when using TLS	SYSLOGDEV-4667
OpenSSL upgraded to 1.0.2q	SYSLOGDEV-4650
File destination fd leak after reload when time-reap elapsed	SYSLOGDEV-4609
hdfs: fd leak during reload	SYSLOGDEV-4581
tls: Handle allow-compress correctly	SYSLOGDEV-4580
Socket leak when using udp destination with spoof-source enabled	SYSLOGDEV-4552

# Differences in features between syslog-ng PE 6 LTS and 7

In general, syslog-ng Premium Edition version 7 has much more features than version 6 LTS, therefore One Identity recommends using version 7 for all deployments, except when a feature that you require is only available in version 6 LTS. In case you need help with migrating from version 6 LTS to 7, [contact our Support Team](#) for help. Also note that as an alternative to the syslog-ng Agent for Windows application, [syslog-ng PE version 7 supports an agent-less solution to fetch log messages from Windows hosts](#).

## Features available only in syslog-ng PE 6 LTS

The following features that are available in syslog-ng Premium Edition 6 LTS are not available in syslog-ng PE 7.

- The SQL source (`sql()`).
- The `allow-compress()`, `ca-dir-layout()`, and `cert-subject()` options related to TLS transport.
- The syslog-ng PE 7 application is currently supported only on Linux platforms. For a detailed list, see ["Supported platforms" in the Administration Guide](#).
- The `spoofer-interface()` options of the `network()` and `syslog()` destinations.
- The `read-old-records()` and `use-syslogng-pid()` options of the `file()` source.
- The `replace()`, `cut()`, and `format-snare()` template-functions.
- The `#{OSUPTIME}` macro is not available.
- When syslog-ng PE 6 started, its startup message included the hash of its configuration file. This has been removed from the startup messages.
- Reading and writing log files located on network shares is not supported.
- FIPS-compliant packages are not available.

## Features that have been changed or replaced in syslog-ng PE 7

The following options and features have changed, and require you to modify your configuration file.

- Configuring the size of disk-buffers has changed. Instead of `log-disk-fifo-size (<size>)`, use the `disk-buffer(disk-buf-size(<size>) reliable(no))` option. For details, see ["Using the disk-buffer option and memory buffering" in the Administration Guide](#).
- To store disk-buffer files in a specific folder, use the `disk-buffer(dir ("/your/diskbuffer/directory"))` option. You cannot set this directory from the command-line, `--qdisk-dir` command-line option is not available.
- The RLTP transport protocol has been renamed to ALTP, so you have to use `transport`

(altp) instead of altp. Also, the message-acknowledgement-timeout() option has been deprecated and has no effect. For details, see ["Reliability and minimizing the loss of log messages" in the Administration Guide](#).

- Wildcard support has been removed from the file source driver and moved to the separate wildcard-file() source. Also, the force-directory-polling() option has been replaced with the monitor-method("poll") option. For details, see ["wildcard-file: Collecting messages from multiple text files" in the Administration Guide](#).
- The mark-mode("host-idle") option does not work. Remove it from your configuration.
- Certain labels in the output of the syslog-ng-ctl stats command have been changed, for example, the "stored" counter has been renamed to "queued".
- If you use the multi-line-prefix() or multi-line-garbage() options in your configuration, add also the multi-line-mode("regex") option. Note that now the multi-line-prefix() and multi-line-garbage() options do not have a timeout.
- When comparing values in filter expressions (for example, in a filter, conditional rewrite, lgstool), note that the '==' operator now works only on numerical values. To test if two strings are identical, use the eq operator. For example:

```
filter f_host {"${HOST}" eq "localhost1234"};
```

- Timequality fields in RFC5424-formatted log messages are not available (the timeQuality isSynced="0/1" tzKnown="0/1" SDATA fields are not available).
- The file-related SDATA fields that were available for log messages that syslog-ng PE read from a file source (file@18372.4 position="34" size="34" name="/path/and/filename") are not available.

## Platforms not supported in syslog-ng PE 7

The following platforms are supported only in syslog-ng Premium Edition 6 LTS.

- AIX
- FreeBSD
- HP-UX
- Oracle Linux 5, 6
- openSUSE
- Solaris
- Windows

For a complete list of supported platforms, see ["Supported platforms" in the Administration Guide](#).



# Product licensing

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1. Apply for a trial license at the [syslog-ng website](#).
2. Download the license and the installation package for your platform, then follow the installation instructions in the Administration Guide.

## ***To enable a purchased commercial license***

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# Upgrade and installation instructions

To install or upgrade syslog-ng Premium Edition, follow the instructions in "[Installing syslog-ng](#)" in the [Administration Guide](#).

# More resources

Additional information is available from the following:

- [Online product documentation](#)

# Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan. It supports bidirectional writing (Arabic and Hebrew). The release supports Complex Script (Central Asia – India, Thailand).

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Version 2.1, February 1999

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