

What's New in v5.3.x

These are the highlights of new features or additions to existing features in v5.0.x, 5.1.x, and 5.2.x. For the complete list of all changes see this [JIRA Release Notes](#).

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General changes

- Allow traffic_server to validate config at the command line - [TS-3364](#)
- TLS ticket rotation - [TS-3301](#)

HTTP/2

Basic support for **HTTP/2** (aka "**H2**") over TLS is now supported. This is still work in progress, and not everything from the H2 specifications is supported. In particular

- Priorities
- Server PUSH
- HTTP/2 over non-TLS

are not supported. In addition, **HTTP/2** is only supported on the client side, outbound HTTP/2 is not supported yet (i.e. we only support proxying H2 to an HTTP/1.1 backend server (*origin*)). For some details on the implementation, see the [TS-2729](#) Jira.

The following records.config settings are needed to enable HTTP/2 on trafficserver in 5.3.x.

```
CONFIG proxy.config.http2.enabled INT 1
```

Additionally, there should be at least one TLS port configured in **proxy.config.http.server_ports**.

For example,

```
CONFIG proxy.config.http.server_ports STRING 80 443:ssl
```

New command line tool: traffic_ctl

The new **traffic_ctl** command is intended to replace the old **traffic_line** command. We're keeping both around for the duration of 6.0.0, but expect **traffic_line** to be deprecated and removed for 7.0.0. As such, please update any tools and utilities you have around the old **traffic_line**, and use **traffic_ctl** instead. For details on this new tool, see [TS-3367](#).

"Dynamic" keep-alive timeouts

In old versions of ATS, you had to manually configure how long to keep connections in HTTP Keep-Alive state. This turns out to be really difficult, and a new feature was added to simplify this. Using these new configurations, you can now specify a max number of connections to keep in Keep-Alive. The new configuration for this is **proxy.config.net.max_connections_in**. See the JIRA ([TS-153](#)) for more details.

New configuration options

- A new configuration to disallow POST with Expect: 100-continue - [TS-3459](#)
- Have HostDB use /etc/hosts - **proxy.config.hostdb.host_file.path** - [TS-3088](#)

Metrics

- Add metrics to represent configuration freshness - [TS-3231](#)
- Add stat to count cache wrap - **proxy.process.cache.wrap_count** - [TS-2515](#)
- Add new metric to count the number of SSL connections from ATS to origin - [TS-3409](#)

Plugin Improvements

API

- Add DSCP Setting API's - [TS-3349](#)

ts_lua

- Add milestone and DSCP API support - [TS-3454](#)
- Other API support - [TS-3225](#)

header_rewrite

- Add support for modifying the SCHEME - [TS-3211](#)
- Add support for METHOD as condition - [TS-3398](#)

gzip

- Add "flush" option - [TS-3255](#)

generator

This new plugin allows ATS to act as a content generator, typically useful for setting up test environments. For details, see the [docs](#).