

# What's New in v6.0.x

These are the highlights of new features or additions to existing features in 6.0.0. For the complete list of all changes see this [JIRA Release Notes](#).

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## Overview

- [ATS 6.0.0 Release Notes](#)
  - 21 New Features
  - 92 Improvements
  - 172 Fixed Bugs
  - 4 Tasks

## New Features

### HTTP/2

HTTP/2 in this release is stable. 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
```

### Logging Additions

- Application protocol (HTTP/2, HTTP/1, SPDY/3.1), with %<cqp>v>.
- Milestones/state times of a transactions to get a better understanding of where time for responses is spent.
- SSL session hit or miss
- Connection reuse or new connection for the request
- Pre-configured log formats removed in favor of logs\_xml.config

### Wiretracing TLS

- Ability to wire trace and log TLS connections. See "New Configuration Options" below.

### PCRE Jit

- Added support for PCRE Jit for regex\_map. Automatically used when compiled on a system that supports it. There is a speed improvement over normal PCRE matching.

## Deprecated Features

- Removed support for RHEL5
- Removed predefined log formats and reproduced in default logs\_xml.config

## Future Deprecated Features

- **traffic\_line** command line program will be removed in the 7.0.0 release and is replaced by the command line program traffic\_ctl
- SPDY support will be removed in the 7.0.0 release and is replaced by only supporting HTTP/2

## New Configuration Options

- proxy.config.cop.init\_sleep\_time
- proxy.config.http.websocket.max\_number\_of\_connections
- proxy.config.net.max\_connections\_active\_in
- proxy.config.http.max\_post\_size
- proxy.config.http.cache.generation
- proxy.config.http.cache.open\_write\_fail\_action
- proxy.config.net.inactivity\_check\_frequency
- proxy.config.net.event\_period
- proxy.config.net.accept\_period
- proxy.config.net.retry\_delay
- proxy.config.net.throttle\_delay
- proxy.config.cache.read\_while\_writer.max\_retries
- proxy.config.cache.read\_while\_writer.retry\_delay
- proxy.config.log.periodic\_tasks\_interval
- proxy.config.ssl.handshake\_timeout\_in
- proxy.config.ssl.wire\_trace\_enabled
- proxy.config.ssl.wire\_trace\_addrproxy.config.ssl.wire\_trace\_percentage
- proxy.config.ssl.wire\_trace\_server\_name
- proxy.config.http2.accept\_no\_activity\_timeout
- proxy.config.http2.no\_activity\_timeout\_in
- proxy.config allocator.hugepages

## New Metrics

- HTTP/2 Metrics
  - proxy.process.http2.total\_client\_streams
  - proxy.process.http2.total\_transactions\_time
  - proxy.process.http2.total\_client\_connections
  - proxy.process.http2.connection\_errors
  - proxy.process.http2.stream\_errors
  - proxy.process.http2.current\_client\_sessions
  - proxy.process.http2.current\_client\_streams

## New Plugins (in experimental)

- stream\_editor - Plugins for modifying the content of a response using a string or regular expression substitution
- [mp4](#) - Allows for starting at the offset of a mp4 video stream
- [cache\\_promote](#) - Give better granularity on when an object is allowed to be written into the cache.