1. **Timeout Errors:**
2. **READ\_TIMEOUT:** When connection is establish and source waiting to read data or response from its data request and TIMEOUT happen.
3. **Connection\_Timeout**: Timeout in creating the initial connection.
4. **IDLE Timeout:** It is the time in which connection stay alive with no traffic is sent or received.
5. **ERR\_READ\_ERROR:**

Read error is generated when connection is broken with Origin.

Types:

1. ERR\_READ\_ERROR|fwdStateFree (500, 502): This error is received when number of request or load cross the threshold limit and Akamai server drop the request to Origin, return this error to the user.
2. ERR\_READ\_ERRORno\_resp\_body (500, 502): The TCP connection was reset after reading the headers but before the response body was read.
3. ERR\_READ\_ERROR|no\_resp\_hdrs (500, 502): We were able to connect to the forward server, send the request, but we did not get a response.
4. ERR\_READ\_ERROR|simulated (500, 502): It is generated by Edge Server for testing purpose like for Failover testing.

<https://docs.akamai.com/p4/projects/ghost/doc/log-format.xml>

Forward Rate Limiting: <https://akamai.my.salesforce.com/kA1G0000000U7kq?srPos=1&srKp=ka1&lang=en_US>

1. Max total size of HTTP response header is 8192 bytes. Total size of HTTP request header is 16k bytes.

<https://control.akamai.com/search/kb/5328>

1. **SPDY vs HTTP/2**

|  |  |
| --- | --- |
| **SPDY** | **HTTP/2** |
| SSL required | SSL is not mandatory |
| Fast Encrypted connection | The new ALPN extension with HTTP/2 provide faster performance than HTTP/2 |
| Single Host Multiplexing | Multiple host multiplexing |
| SPDY leaves a small space for vulnerabilities in its current compression methods. | HTTP/2 introduces HPACK, a compression format designed specifically for shortening headers and preventing vulnerabilities |
| Prioritization is available with SPDY, HTTP/2 implementation is more flexible and friendlier to proxies | Improved Prioritization to determine how and when to download a web page content more effectively |

Ref: <https://www.maxcdn.com/blog/spdy-http2-shift/>

<https://www.chromium.org/spdy/spdy-whitepaper>

<https://www.youtube.com/watch?v=eDyLCQxrbr8>

<http://blog.httpwatch.com/2015/01/16/a-simple-performance-comparison-of-https-spdy-and-http2/comment-page-1/>

Web Performance Collection by Akamai : <https://community.akamai.com/community/web-performance/blog/2015/12/15/web-performance-collection-1-interesting-talks>