



Web Engine Status Codes

This chapter lists the Cisco Videoscape Distribution Suite, Internet Streamer (VDS-IS) web engine status codes.

[Table 4-1](#) shows the Web Engine (WE) status codes and provides a description and corresponding error log showing the condition under which the status codes display.

Table 4-1 Web Engine Status Codes

Status Code	Description	Error Log
HTTP_MOVED_TEMPORARILY (302)	This is sent from the Authorization Server when the URL validation fails, and the error redirect URL has been configured.	Trace Level: Mp3 use case: “AppCtxt(%p) Redirect code(%d) Location(%s)” WE use case: “AppCtxt(%p) Lookup Data Source Result - redirect code(%d) Location(%s)”
HTTP_NOT_MODIFIED (304)	Cache Hit : WE could generate this response to an IMS request it received from the client. Cache Miss: OS returns this code for a client IMS request.	Transaction Log in squid format will mention if its TCP_MISS (which means OS or upstream must have sent it), or TCP_REFRESH_HIT (which means WE generated it).
HTTP_BAD_REQUEST (400)	<ol style="list-style-type: none"> 1. Parse Error of request would generate this code. 2. If WE has multiple thread transfers due to URL pattern, it sends this code. 	For [1] , the message tells you exactly what parsing failed. “Exception caught, What:%s. Syserr:” For [2] “ AppCtxt(%p)” “Url (%s) “ “causing multiple thread transfers, Sending Bad request”
HTTP_NOT_IMPLEMENTED (501)	If WE gets a request whose method is neither GET nor HEAD, WE returns this code.	Exception caught, What:%s. Syserr: %s : %d”

Table 4-1 Web Engine Status Codes (continued)

Status Code	Description	Error Log
HTTP_VERSION_NOT_SUPPORTED (505)	If WE gets an HTTP Version request other than 1.0 or 1.1, WE returns this code.	Exception caught, What:%s. Syserr: %s : %d"
HTTP_FORBIDDEN(403)	<ol style="list-style-type: none"> CAL returns this code possibly because this is a hybrid caching use case, and the request is outside the start/stop serve time window. OS sends back code 403. WE is asked to connect to itself for cache miss. Delivery service configuration to disable HTTP Download. HCACHE header is sent by the client, but the request is not from another streamer but another client, in which case WE denies the request. Auth Server returns deny the request. 	<ol style="list-style-type: none"> No error message, trace message gives the action returned by CA. TBD "Connection request to its own interface IP %s is rejected, HTTPConnection" Trace Level : AppCtxt(%p) HTTP Download disabled for %s - Deny! AppCtxt[%p] This is not CdsClientRequest. Reject !!!" Trace Level : AppCtxt(%p) Auth Server Query Response - Deny AuthSvrQuery(%p)
HTTP_METHOD_NOT_ALLOWED(405)	If the WE receives a POST request, it returns this code.	AppCtxt(%p) POST not supported in HTTP-Cache - request denied.
HTTP_NOT_ACCEPTABLE (406)	If an Accept header is received and the value does not match the content type or the mime type for that asset, the WE returns this code.	<p>Detail Level :</p> <p>"AppCtxt(%p)"</p> <p>"Url (%s) "</p> <p>"Accept Header %s "</p> <p> "Mime type from URL %s",</p> <p> this,</p> <p>(CoreCtxt())>GetUrl()>GetUrlStr()).c_str(),</p> <p> (const char *)headerValue,</p> <p> mimeType</p>

Table 4-1 Web Engine Status Codes (continued)

Status Code	Description	Error Log
HTTP_PRECONDITION_FAILED (412)	<ol style="list-style-type: none"> 1. In the request If Unmodified Since date is != 0 and if unmodified since < last modified time in the response. 2. If the incoming request had an If match header and it does not match the etag in the asset stored, then it returns this code. 	<pre>LastModifiedTime (%lld)", this, (CoreCtxt()>GetUrl()>GetUrlStr()).c_str(), ifUnmodSinceTime, lastModTime);# Detail Level:"AppCtxt(%p)" "Url (%s) " "etag (%s) request etag header (%s)", this, (CoreCtxt()>GetUrl()>GetUrlStr()).c_ str(), etag, headerVal</pre>
HTTP_RANGE_NOT_SATISFIABLE(416)	For any invalid range values, the WE returns this code, if start range >= asset length or start range > end range.	Trace Level: The AssetLength is : %lld and Range Requested is [%lld-%lld]

Table 4-1 Web Engine Status Codes (continued)

Status Code	Description	Error Log
HTTP_INTERNAL_SERVER_ERROR (500)	<ol style="list-style-type: none"> 1. Small Object cache miss use case, either due to memory running out or some other system problem. WE was not able to create an object required to serve the file. 2. Large Object cache miss use case, either due to memory running out or some other system problem. WE was not able to create an object required to serve the file. 3. Cache Bypass use case, either due to memory running out or some other system problem. WE was not able to create an object required to serve the file. 4. Thread transfer use case, either due to memory or FD running out. WE was not able to do thread transfer. 5. CAL Lookup fails. 6. Error returned from CAL on lookup. 7. WE failed to start the data feed to connect to the upstream SE or OS, this could be because: <ol style="list-style-type: none"> a. WE ran out of FD. b. OS was not resolved and WE had no IP address to connect to. c. Ran out of memory and HTTP connection object could not be created. d. Not able to connect and connect system call gave an error. 8. Ran out of memory or FD, and could not create data source finder. This occurs before CAL lookup. 9. Authorization Server query could not be done. 	<p>TCP state in squid transaction log will be NONE if the current SE generated the error, if its TCP_MISS then this is from upstream SE</p> <p># "DiskFileDataSource Creation Failure: "</p> <ol style="list-style-type: none"> 1. No error message written here 2. No error message written here 3. No error message written here 4. No error message written here 5. Content Lookup Failed with status [%d] 6. No error message written here 7. "DataSourceFinder(%p):: Failed to Start the DataFeed(%p)" <ol style="list-style-type: none"> a. None b. "No server ip to connect to for Xact %p and url(%s)" c. "Error creating HTTPConnection to connect to for Xact %p with url (%s)" d. ""HTTPConnection[%p] error getting socket for %p with url %s, errno = %d""OR" "HTTPConnection[%p] Error Making socket Non Blocking for xact =%p, Url[%s] errno = %d"" OR ""Error Making HTTPConnection[%p] for xact= %p, Url[%s], errno = %d",," # "AppCtxt(%p) Failed to create a datasource finder - terminate client" 8. "AppCtxt(%p) Failed to Query Auth Server - " 9. "AppCtxt(%p) Auth Server Query Error (%d), AuthSvrQuery(%p);"

Table 4-1 Web Engine Status Codes (continued)

Status Code	Description	Error Log
HTTP_GATEWAY_TIME_OUT (504)	<ol style="list-style-type: none"> 1. If an only-if-cached request comes and content is not in the disk, then this code is returned. 2. If connect to upstream SE or OS failed because: <ol style="list-style-type: none"> a. WE is unable to write the request to the upstream SE or OS and times out. b. WE is unable to write the request on current connection, and a retry cannot be done to create a new socket to same IP. c. Read response from OS or upstream timed out. d. Read on the socket connected to upstream Se or OS returned a -1 (error). e. Parsing of the response header from upstream SE or OS fails. f. On Header parsing neither content length nor transfer encoding is being sent, and bytes to read from upstream SE / Os is negative. g. HTTP Response body read timed out. h. Read response body gave error or did not have any data. i. Retry attempt has failed and we cannot connect to any upstream or OS. j. Connection Manager was not able to dispatch the connection, most likely because the socket could not be created or connected. 	<ol style="list-style-type: none"> 1. Trace Level : "AppCtxt(%p) - Url(%s) - Has Only If cached " "- Send Error Gateway time out",# Multiple flows <ol style="list-style-type: none"> a. ""In EvHttpWriteReqCbTime out on WriteCB socket %d, event %d, HTTPConnection[%p], Server ip [%s]"" b. In EvHttpWriteReqCbTime error in ev_buffer_write WriteCB socket %d, event %d, HTTPConnection[%p], Server ip[%s] c. In EvHttpReadRespHeaderCb socket %d, situation [%s] for HTTPConnection[%p] and xact[%p] with Url[%s] d. "In EvHttpReadRespHeaderCb socket %d, situation [%s], for HTTPConnection[%p] and xact[%p] with Url[%s]", e. "In EvHttpReadRespHeaderCb socket %d, situation [%s], for HTTPConnection[%p] and xact[%p] with Url[%s]", socket, "Empty Buffer", f. "In EvHttpReadRespHeaderCb socket %d, situation [%s], for HTTPConnection[%p] and xact[%p] with Url[%s]", socket, "BytesToalToRead unutilaized", g. "In EvHttpReadRespBodyCb socket %d, situation[%s] , for HTTPConnection[%p] and xact[%p] with Url[%s]", socket, "Time Out", h. "In EvHttpReadRespBodyCb socket %d, situation[%s], for HTTPConnection[%p] and xact[%p] with Url[%s]", socket, "No Data", i. ht_conn->GetConnMgr()->AppDebugHeader(), s : connect for %s:%d on Socket: %d,error = %s, HTTPConnection [%p]", _func_, j. ConnectionMgr could not dispatch Xact while retrying xact[%p], Server ip(%s)",

