Fortitude HTTP Filters

# OnProcessRequestHeader

Called when the server has pre-processed a peer’s request header.

#### Overview

Any of the properties of the peer’s request header can be changed and the server will use these modified values in the satisfaction of the request. If the header fields are modified, you will need to set the “ModifiedByFilter” flag to true otherwise the server will discard the changes to the header field.

#### Return Value

Return FILTER\_EVENT\_RESULT\_OK to continue processing the request, return FILTER\_EVENT\_RESULT\_ABORT will send a “401 - Authorization Failed by Filter” error to the remote peer.

# OnProcessRawResponseHeader

Called when the server is ready to send a response header to the remote peer.

#### Overview

The response header is sent to the filter as a single string in its raw form, any modifications made to this string are subsequently sent to the remote peer. The length of the header is for informational purposes, any changes made to the length of the header are ignored by the server.

#### Return Value

Return FILTER\_EVENT\_RESULT\_OK to continue processing the request, return FILTER\_EVENT\_RESULT\_ABORT will send a “401 - Authorization Failed by Filter” error to the remote peer.

# OnUrlMap

Called when the server has made the translation from request to a physical file.

#### Overview

Any of the properties of the peer’s request header can be changed and the server will use these modified values in the satisfaction of the request. If the header fields are modified, you will need to set the “ModifiedByFilter” flag to true otherwise the server will discard the changes to the header field. This would be an excellent point to perform URL rewriting.

#### Return Value

Return FILTER\_EVENT\_RESULT\_OK to continue processing the request, return FILTER\_EVENT\_RESULT\_ABORT will send a “401 - Authorization Failed by Filter” error to the remote peer.

# OnSendRawData

Called when the server sending a chunk of data to a remote peer.

#### Overview

This filter is called whenever the server is sending any data on a website’s behalf. While the buffer is read-only, sResponseHeader can be set to have Fortitude HTTP alter its outgoing buffer.

#### To alter the outgoing buffer:

Allocate a new heap pointer to sResponseHeader using GlobalAlloc(), set the length of the buffer to iResponseHeaderLength. The buffer allocated by GlobalAlloc() will be deallocated by Fortitude HTTP using GlobalFree().

#### Return Value

Return FILTER\_EVENT\_RESULT\_OK to continue sending the data buffer, return FILTER\_EVENT\_RESULT\_ABORT will cause the server to discard the packet without sending it.

# OnRecvRawData

Called when the server sending a chunk of data to a remote peer.

#### Overview

This filter is called whenever the server receives any data for a website. The data buffer and its size are read-only.

#### Return Value

Return FILTER\_EVENT\_RESULT\_OK to continue receiving the data buffer, return FILTER\_EVENT\_RESULT\_ABORT will cause the server to discard the packet.

# OnLog

Called when the server is logging the request and response information to file.

#### Overview

Any of the properties of the peer’s request header can be changed and the server will use these modified values in the satisfaction of the request. If the header fields are modified, you will need to set the “ModifiedByFilter” flag to true otherwise the server will discard the changes to the header field.

#### Return Value

Return FILTER\_EVENT\_RESULT\_OK to log this request and response to file, return FILTER\_EVENT\_RESULT\_ABORT will prevent the entry from being written to the log file.

# OnConnect

Called when a new connection is being established to a website.

#### Overview

This event is called and supplies an IP address of the connecting peer.

#### Return Value

Return FILTER\_EVENT\_RESULT\_OK to continue accepting the connection, return FILTER\_EVENT\_RESULT\_ABORT will immediately drop the connection.

# OnDisconnect

Called before a connection is dropped to a website.

#### Overview

This event is called and supplies an IP address of the disconnecting peer. This event is also where your custom filter may want to cleanup any information it has stored about a connection.

#### Return Value

This function does not have a return value, the connection is always disconnected after this filter is called.

# OnRequestConcluded

Called when a single request is complete.

#### Overview

This event is called once for each OnProcessRequestHeader, but may be called without receiving a call to OnProcessRequestHeader if the request header was invalid. This filter can be called multiple times per PeerId because the request may be processed on a keep-alive connection.

#### Return Value

This function does not have a return value.