



Video Streaming Statistics Service

This chapter describes the Video Streaming Statistics service, which returns video streaming statistics for individual WAEs, device groups, and for the WAAS network.



Note

The video application accelerator is used only for WAAS Versions 5.5.1 and earlier.

This chapter contains the following sections:

- [Video Streaming Statistics Service Syntax](#)
- [Video Streaming Statistics Service Actions](#)

Video Streaming Statistics Service Syntax

This section contains the following topics:

- [Video Streaming Statistics Informational URLs](#)
- [Video Streaming Statistics Example Request](#)
- [Video Streaming Statistics Example Response](#)

Video Streaming Statistics Informational URLs

This section provides informational URLs for the Video Streaming Statistics service.

- Service URL—`https://<host/ip>:8443/ws/VideoStats`
- WSDL URL—`https://<host/ip>:8443/ws/VideoStats?wsdl`
- To obtain a description of all the operations and parameters for the VideoStats Web Service, submit a URL to the service with the suffix **?wsdl** as follows:

```
https://<host/ip>:8443/ws/VideoStats?wsdl
```

- To obtain management information using the Central Manager monitoring API, first call the service by using the service URL for this service as follows:

```
https://<host/ip>:8443/ws/VideoStats
```

Next, submit a SOAP request written in an XML format to retrieve the information.

Video Streaming Statistics Example Request

The following example shows an XML-formatted SOAP request to perform the **retrieveHistoricalStats** action. The request includes the input parameters for this particular action shown in bold. For more information, see [retrieveHistoricalStats](#).

```
<?xml version="1.0" encoding="utf-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
- <soapenv:Header>
- <wsse:Security
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.
xsd">
- <wsse:UsernameToken>
  <wsse:Username>admin</wsse:Username>
  <wsse:Password
Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#P
asswordText">default</wsse:Password>
  </wsse:UsernameToken>
</wsse:Security>
</soapenv:Header>
- <soapenv:Body>
- <ns1:retrieveHistoricalStats xmlns:ns1="http://service.stats.ws.waas.cisco.com">
  <ns1:name>ce-119-40</ns1:name>
  <ns1:objType>wae</ns1:objType>
- <ns1:timeframe>
  <ns5:endTime
xmlns:ns5="http://util.ws.waas.cisco.com/xsd">2008-01-25T08:00:00.000Z</ns5:endTime>
  <ns5:frequency xmlns:ns5="http://util.ws.waas.cisco.com/xsd">lasthour</ns5:frequency>
  <ns5:startTime
xmlns:ns5="http://util.ws.waas.cisco.com/xsd">2008-01-24T08:00:00.000Z</ns5:startTime>
  <ns5:timezone xmlns:ns5="http://util.ws.waas.cisco.com/xsd">UTC</ns5:timezone>
</ns1:timeframe>
</ns1:retrieveHistoricalStats>
</soapenv:Body>
</soapenv:Envelope>
```

Video Streaming Statistics Example Response

The following example shows the XML response that contains the output values for the **retrieveHistoricalStats** action. For more information, see [retrieveHistoricalStats](#).

```
<?xml version="1.0" encoding="utf-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
- <soapenv:Body>
- <ns:retrieveHistoricalStatsResponse xmlns:ns="http://service.stats.ws.waas.cisco.com"
xmlns:ax212="http://rmi.java/xsd" xmlns:ax213="http://io.java/xsd"
xmlns:ax215="http://stats.ws.waas.cisco.com/xsd"
xmlns:ax214="http://util.ws.waas.cisco.com/xsd">
- <ns:return type="com.cisco.waas.ws.stats.VideoStats">
  <ax215:acceleratedconnections>30</ax215:acceleratedconnections>
  <ax215:errorconnections>19</ax215:errorconnections>
  <ax215:frequency>min</ax215:frequency>
  <ax215:incomingbytesttotal>44</ax215:incomingbytesttotal>
  <ax215:outgoingbytesttotal>29</ax215:outgoingbytesttotal>
  <ax215:receivedconnections>84</ax215:receivedconnections>
  <ax215:savedpercent>51.0</ax215:savedpercent>
  <ax215:timestamp>2008-04-16T21:15:35.284Z</ax215:timestamp>
  <ax215:unacceleratedconnections>9</ax215:unacceleratedconnections>
```

```
</ns:return>
</ns:retrieveHistoricalStatsResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Video Streaming Statistics Service Actions

The Video Streaming Statistics service (VideoStats Web Service) performs one or more of the following actions:

- [getAccelerationBypassReasons](#)
- [getActiveConnCount](#)
- [retrieveCurrentStats](#)
- [retrieveHistoricalStats](#)

getAccelerationBypassReasons

Retrieves the overall acceleration bypass reason statistics.

Input Parameters

| Parameter | Description |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name | A string that describes the name of the WAE, WAE group, or system. |
| objType | A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> • wae • waegroup • system |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |

Return

The output parameter **VideoAccelBypassReasons[]** returns a [VideoAccelBypassReasons](#) value that provides a list of video statistics.

Exceptions

| Type | String | Description |
|-----------------|---------------------------------------------------------------------|----------------------------------------------------|
| RemoteException | VideoStatsService.getAccelerationBypassReasons: ERROR:Invalid name= | Unknown exception. See the logs to view the error. |

getActiveConnCount

Retrieves the overall video active connection statistics collected.

| Input Parameters | Parameter | Description |
|------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | name | A string that describes the name of the WAE, WAE group, or system. |
| | objType | A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> • wae • waegroup • system |
| | timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |

Return The output parameter VideoActiveConnCount[] returns a [VideoActiveConnCount](#) value that provides a list of video active connection statistics.

| Exceptions | Type | String | Description |
|------------|-----------------|--------------------------------------------------------------|----------------------------------------------------|
| | RemoteException | VideoStatsService.getActiveConnCount: ERROR:Invalid name= | Unknown exception. See the logs to view the error. |

retrieveCurrentStats

Retrieves the current video statistics collected for a stream which is specified by the URL on a WAE.

Input Parameters

| Parameter | Description |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| name | A string that describes the name of the WAE. |
| objType | A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> • wae |
| url | A string that contains the URL of the stream for which statistics are requested. Wild cards are applicable. |

Return

The output parameter **videostreamstats[]** returns a [VideoStreamStats](#) value that provides a list of URL stream statistics.

Exceptions

| Type | String | Description |
|-----------------|---------------------------------------------------------------------------|--------------------------------------------------------|
| RemoteException | VideoStatsService.retrieveCurrentStats: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | VideoStatsService.retrieveCurrentStats: ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | VideoStatsService.retrieveCurrentStats: ERROR:Invalid URL | The URL is invalid. |
| AxisFault | VideoStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | VideoStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | VideoStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveCurrentStats:The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |
| RemoteException | VideoStatsService.retrieveCurrentStats: ERROR:Invalid url= | The UFL is blank or not specified in the filter. |

retrieveHistoricalStats

Retrieves the overall video statistics collected on either a WAE device, WAEs within a device group, or all WAEs system wide.

Input Parameters

| Parameter | Description |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name | A string that describes the name of the WAE, WAE group, or system. |
| objType | A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> • wae • waegroup • system |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |

Return

The output parameter **videostats[]** returns a [VideoStats](#) value that provides a list of video statistics.

Exceptions

| Type | String | Description |
|-----------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| RemoteException | VideoStatsService.retrieveHistoricalStats: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | VideoStatsService.retrieveHistoricalStats: ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | VideoStatsService.retrieveHistoricalStats: ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | VideoStatsService.retrieveHistoricalStats: ERROR:Invalid frequency= | The frequency is invalid. |
| RemoteException | VideoStatsService.retrieveHistoricalStats: ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | VideoStatsService.retrieveHistoricalStats: ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | VideoStatsService.retrieveHistoricalStats: ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | VideoStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | VideoStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |

| | | |
|-----------|------------------------------------------------------------------------------|--------------------------------------------------------|
| AxisFault | VideoStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveHistoricalStats:The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |