



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 Cisco WAAS network.

- [Video Streaming Statistics Service Syntax, on page 1](#)
- [Video Streaming Statistics Service Actions, on page 3](#)

Video Streaming Statistics Service Syntax

This section contains the following topics:

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 [#unique_91 unique_91_Connect_42_1055243](#).

```
<?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#PasswordText">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.

```

<?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"> • <code>wae</code> • <code>waegroup</code> • <code>system</code>
timeframe	A <code>TimeFrameFilter</code> 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
<code>RemoteException</code>	<code>VideoStatsService.getAccelerationBypassReasons: ERROR:Invalid name=</code>	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.

Type	String	Description
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.

Type	String	Description
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.