



Traffic Acceleration Service

This chapter describes the Traffic Acceleration service, which returns traffic and application statistics for individual WAEs, device groups, and for the WAAS network.

This chapter contains the following sections:

- [Traffic Acceleration Service Syntax](#)
- [Traffic Acceleration Service Actions](#)

Traffic Acceleration Service Syntax

This section contains the following topics:

- [Traffic Acceleration Informational URLs](#)
- [Traffic Acceleration Example Request](#)
- [Traffic Acceleration Example Response](#)

Traffic Acceleration Informational URLs

This section provides informational URLs for the Traffic Acceleration service.

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

```
https://<host/ip>:8443/ws/TrafficStats?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/TrafficStats
```

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

Traffic Acceleration Example Request

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

```
<?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>
- <ns2:retrieveTrafficStats xmlns:ns2="http://service.stats.ws.waas.cisco.com">
  <ns2:name>ce-119-40</ns2:name>
  <ns2:objType>wae</ns2:objType>
  <ns2:trafficType>ttype</ns2:trafficType>
  <ns2:direction>bidirectional</ns2:direction>
- <ns2: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">lastday</ns5:frequency>
  <ns5:startTime
xmlns:ns5="http://util.ws.waas.cisco.com/xsd">2008-01-25T08:00:00.000Z</ns5:startTime>
  <ns5:timezone xmlns:ns5="http://util.ws.waas.cisco.com/xsd">UTC</ns5:timezone>
  </ns2:timeframe>
</ns2:retrieveTrafficStats>
</soapenv:Body>
</soapenv:Envelope>
```

Traffic Acceleration Example Response

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

```
<?xml version="1.0" encoding="utf-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
- <soapenv:Body>
- <ns:retrieveTrafficStatsResponse xmlns:ns="http://service.stats.ws.waas.cisco.com"
xmlns:ax25="http://io.java/xsd" xmlns:ax24="http://rmi.java/xsd"
xmlns:ax26="http://util.ws.waas.cisco.com/xsd"
xmlns:ax27="http://stats.ws.waas.cisco.com/xsd">
- <ns:return type="com.cisco.waas.ws.stats.TrafficStats">
  <ax27:applicationname xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true" />
  <ax27:compressedin>278892</ax27:compressedin>
  <ax27:compressedout>167328</ax27:compressedout>
  <ax27:endtime>2008-04-15T21:00:00.000Z</ax27:endtime>
  <ax27:frequency>hour</ax27:frequency>
  <ax27:passthroughintermediatein>55773</ax27:passthroughintermediatein>
  <ax27:passthroughintermediateout>55773</ax27:passthroughintermediateout>
  <ax27:passthroughoverloadin>41823</ax27:passthroughoverloadin>
```

```
<ax27:passthroughoverloadout>55773</ax27:passthroughoverloadout>
<ax27:passthroughpeerin>111546</ax27:passthroughpeerin>
<ax27:passthroughpeerout>111546</ax27:passthroughpeerout>
<ax27:passthroughpolicyin>83655</ax27:passthroughpolicyin>
<ax27:passthroughpolicyout>111546</ax27:passthroughpolicyout>
<ax27:starttime>2008-04-15T20:00:00.000Z</ax27:starttime>
<ax27:uncompressedin>1673361</ax27:uncompressedin>
<ax27:uncompressedout>3346731</ax27:uncompressedout>
</ns:return>
.
.
.
</ns:retrieveTrafficStatsResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Traffic Acceleration Service Actions

The Traffic Acceleration service (TrafficStats Web Service) performs one or more of the following actions:

- [getAllClassMap](#)
- [getMonitoredApplications](#)
- [retrieveAppTrafficStats](#)
- [retrieveAverageThroughPutClassStats](#)
- [retrieveAverageThroughPutStats](#)
- [retrieveClassTrafficStats](#)
- [retrieveConnection](#)
- [retrieveConnectionTrendClassStats](#)
- [retrieveConnectionTrendStats](#)
- [retrieveCPUUtilization](#)
- [retrievePeakThroughPutClassStats](#)
- [retrievePeakThroughPutStats](#)
- [retrieveTrafficStats](#)

getAllClassMap

Retrieves all of the monitored class map names.

Input Parameter

None.

Return

The output parameter **ClassMaps[]** returns an array of **ClassMaps** values, each of which lists the name of a monitored class map.

Exceptions

| Type | String | Description |
|-----------------|--|---|
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Invalid frequency= | The frequency is invalid. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService.getAllClassMap: ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | getAllClassMap:The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

getMonitoredApplications

Retrieves a list of all types of applications known in the scope of the system.

Input Parameter

The keyword **name** requires a string that describes the name application. Note: The input parameter **name** is optional and is not used.

Return

The output parameter **MonitoredApps[]** returns a list of all applicable application names and the monitoring status.

Exceptions

| Type | String | Description |
|-----------------|---|--|
| RemoteException | TrafficStatsService.getMonitoredApplications:ERROR:Invalid name= | Unhandled exception. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | getMonitoredApplications:The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

retrieveAppTrafficStats

Retrieves overall traffic statistics collected on either a WAE device, WAEs within a device group, or all WAEs system wide. The traffic is further filtered based on the specified application names.

Input Parameters

| Parameter | Description |
|------------------------|--|
| name | A string that describes the name of the WAE, WAE group, or system. Note: name is not used for filtering the data. |
| objType | A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> • wae • waegroup • devicegroup • system |
| trafficType | A string that describes the type of traffic. Valid values include the following: <ul style="list-style-type: none"> • passthrough • optimized Note: trafficType is not used for filtering the data. |
| direction | A string that describes the direction of the traffic. Valid values include the following: <ul style="list-style-type: none"> • inbound • outbound • bidirectional Note: direction is not used for filtering the data. |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| applicationName | A string value that specifies an application. Each application should be specified in an <serv:appName> element. |

Return

The output parameter **TrafficStats[]** returns a [TrafficStats](#) value that provides an array of traffic statistics.

Exceptions

| Type | String | Description |
|-----------------|---|----------------------------------|
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Invalid objType= | The object type name is invalid. |

| | | |
|-----------------|---|--|
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Invalid frequency= | The frequency is invalid. |
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService.retrieveAppTrafficStats: ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveAppTrafficStats:The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

retrieveAverageThroughPutClassStats

Retrieves average throughput counts for a set of class map names.

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 • device • devicegroup • system |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| classNames | A set of zero or more classNames elements, each of which is a string that describes a single class map name. |

Return

The output parameter **AverageThroughputClassStats[]** returns an array of [AverageThroughputClassStats](#) values, each of which lists the average throughput counts for a specific class map name.

Exceptions

| Type | String | Description |
|-----------------|--|-------------------------------------|
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Invalid frequency= | The frequency is invalid. |

| | | |
|-----------------|--|--|
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutClassStats : ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveAverageThroughPutClassStats :The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

retrieveAverageThroughPutStats

Retrieves the average throughput values collected on a device.

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 • device • devicegroup • location |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| applicationName | A string value that includes a comma-separated list of all required application names. |

Return

The output parameter **AverageThroughPutStats[]** returns an array of [AverageThroughPutStats](#) values, each of which provides information about the traffic processed for a specific application on the WAE device.

Exceptions

| Type | String | Description |
|-----------------|--|---|
| RemoteException | TrafficStatsService.retrieveAverageThroughPutStats: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutStats: ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutStats: ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveAverageThroughPutStats: ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |

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

retrieveClassTrafficStats

Retrieves traffic byte counts for the specified class map names.

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 • device • devicegroup • system |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| classNames | A set of zero or more classNames elements, each of which is a string that describes a single class map name. |

Return

The output parameter **ClassifierStats[]** returns an array of [ClassifierStats](#) values, each of which lists the traffic bytes counts for a specific class map name.



Note

The output for **retrieveClassTrafficStats** does not include single-sided Akamai Connect in the traffic volume.

Exceptions

| Type | String | Description |
|-----------------|--|-------------------------------------|
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Invalid frequency= | The frequency is invalid. |

| | | |
|-----------------|--|--|
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService.retrieveClassTrafficStats : ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveClassTrafficStats :The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

retrieveConnection

Retrieves overall connection details for the current time.

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 • device • devicegroup • location |
| srcip | A string that contains the source IP address, which is ignored if the string is empty. |
| dstip | A string that contains the destination IP address, which is ignored if the string is empty. |
| srcport | A string that contains the source port number, which is ignored if the string is empty. |
| dstport | A string that contains the destination port number, which is ignored if the string is empty. |

Return

The output parameter **ConnectionStats[]** returns a [ConnectionStats](#) value that provides a list of connections.

Exceptions

| Type | String | Description |
|-----------------|--|---|
| RemoteException | TrafficStatsService.retrieveConnection: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveConnection: ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.retrieveConnection: ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveConnection: ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |

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

retrieveConnectionTrendClassStats

Retrieves connection counts for the specified set of class map names.

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 • device • devicegroup • system |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| classNames | A set of zero or more classNames elements, each of which is a string that describes a single class map name. |

Return

The output parameter **ConnectionTrendClassStats[]** returns an array of [ConnectionTrendClassStats](#) values, each of which contains connection trend details for a specific class map name.

Exceptions

| Type | String | Description |
|-----------------|--|-------------------------------------|
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Invalid frequency= | The frequency is invalid. |

| | | |
|-----------------|--|--|
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendClassStats : ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveConnectionTrendClassStats :The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

retrieveConnectionTrendStats

Retrieves overall connection trend details of applications collected on a device.

Input Parameters

| Parameter | Description |
|------------------------|---|
| name | A string that describes the name of the device, device group, or system. |
| objType | A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> • wae • waegroup • device • devicegroup • location • system |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| applicationName | A string value that includes a comma-separated list of all required application names. |

Return

The output parameter **ConnectionTrendStats[]** returns an array of [ConnectionTrendStats](#) values, each of which provides connection trend details for a specific application.

Exceptions

| Type | String | Description |
|-----------------|--|---|
| RemoteException | TrafficStatsService.retrieveConnectionTrendStats: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendStats: ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendStats: ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveConnectionTrendStats: ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |

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

retrieveCPUUtilization

Retrieves the CPU utilization information for a specified WAE.

Input Parameters

| Parameter | Description |
|------------------|--|
| name | A string that describes the name of the WAE. |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |

Return

The output parameter **CPUUtilizationStats[]** returns a [CPUUtilizationStats](#) value that provides an array of CPU utilization statistics for various time points.

Exceptions

| Type | String | Description |
|-----------------|--|--|
| RemoteException | TrafficStatsService. retrieveCPUUtilization: ERROR: Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService. retrieveCPUUtilization: ERROR: Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService. retrieveCPUUtilization: ERROR: Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService. retrieveCPUUtilization: ERROR: Invalid frequency= | The frequency is invalid. |
| RemoteException | TrafficStatsService. retrieveCPUUtilization: ERROR: Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService. retrieveCPUUtilization: ERROR: Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService. retrieveCPUUtilization: ERROR: startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveTrafficStats:The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

retrievePeakThroughPutClassStats

Retrieves peak throughput values for the specified set of class map names.

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 • device • devicegroup • system |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| classNames | A set of zero or more classNames elements, each of which is a string that describes a single class map name. |

Return

The output parameter **PeakThroughputClassStats[]** returns an array of [PeakThroughPutClassStats](#) values, each of which lists the peak throughput values for a specific class map name.

Exceptions

| Type | String | Description |
|-----------------|---|-------------------------------------|
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Invalid objType= | The object type name is invalid. |
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Invalid frequency= | The frequency is invalid. |

| | | |
|-----------------|---|--|
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService.retrievePeakThroughPutClassStats : ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrievePeakThroughPutClassStats :The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |

retrievePeakThroughPutStats

Retrieves the peak throughput values collected on a device.

| 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 • device • devicegroup • location |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |
| applicationName | A string value that includes a comma-separated list of all required application names. |

Return The output parameter **PeakThroughPutStats[]** returns an array of [PeakThroughPutStats](#) values, each of which provides information about the traffic processed for a specific application on the WAE device.

| Exceptions | Type | String | Description |
|------------|-----------------|---|---|
| | RemoteException | TrafficStatsService.retrievePeakThroughPutStats: ERROR:Invalid name= | The device name is invalid. |
| | RemoteException | TrafficStatsService.retrievePeakThroughPutStats: ERROR:Invalid objType= | The object type name is invalid. |
| | RemoteException | TrafficStatsService.retrievePeakThroughPutStats: ERROR:Device does not exist.DeviceName= | The device name is not found. |
| | RemoteException | TrafficStatsService.retrievePeakThroughPutStats: ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| | RemoteException | TrafficStatsService.retrievePeakThroughPutStats: ERROR:Unsupported frequency= | The frequency is not supported. |
| | AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| | AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |

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

retrieveTrafficStats

Retrieves the overall 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 • device • devicegroup • system |
| trafficType | A string that describes the type of traffic. Valid values include the following: <ul style="list-style-type: none"> • passthrough • optimized <p>Note: trafficType is not used in filtering the data.</p> |
| direction | A string that describes the direction of the traffic. Valid values include the following: <ul style="list-style-type: none"> • inbound • outbound • bidirectional <p>Note: direction is not used in filtering the data.</p> |
| timeframe | A TimeFrameFilter value that includes the time interval, time zone, and frequency. |

Return

The output parameter **TrafficStats[]** returns a [TrafficStats](#) value that provides an array of traffic statistics.



Note

The output for **retrieveTrafficStats** does not include single-sided Akamai Connect in the traffic volume.

Exceptions

| Type | String | Description |
|-----------------|---|----------------------------------|
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Invalid name= | The device name is invalid. |
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Invalid objType= | The object type name is invalid. |

| | | |
|-----------------|---|--|
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Invalid TimeFrame | The timeframe is invalid. |
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Device does not exist.DeviceName= | The device name is not found. |
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Device Group does not exist.DeviceGroup= | The device group name is not found. |
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Invalid frequency= | The frequency is invalid. |
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Invalid startTime= | The start time is invalid. |
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:Invalid endTime= | The end time is invalid. |
| RemoteException | TrafficStatsService.retrieveTrafficStats: ERROR:startTime should be less than endTime startTime= | The start time is less than the end time. |
| AxisFault | TrafficStats:The Method Name is not supported. MethodName= | The method name is not supported for a given service. |
| AxisFault | TrafficStats:The SOAP Envelope Body is Null | The SOAP envelope is missing for a given service. |
| AxisFault | TrafficStats:The Requested WebService is not available | The service requested is not supported. |
| AxisFault | retrieveTrafficStats:The SOAP Body doesn't have all the required elements | The SOAP body does not have all the required elements. |