



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.

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](#)

Syntax

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.

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. The next example shows the XML response that contains the output values for this action.

Example Request

```
<?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>
```

Example Response

```
<?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>
```

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.

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, WAE group, or system.
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.

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 **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.

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.

