



## Traffic Acceleration Service

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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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system. Note: name is not used for filtering the data.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• devicegroup</li> <li>• system</li> </ul>
<b>trafficType</b>	A string that describes the type of traffic. Valid values include the following: <ul style="list-style-type: none"> <li>• passthrough</li> <li>• optimized</li> </ul> Note: trafficType is not used for filtering the data.
<b>direction</b>	A string that describes the direction of the traffic. Valid values include the following: <ul style="list-style-type: none"> <li>• inbound</li> <li>• outbound</li> <li>• bidirectional</li> </ul> Note: direction is not used for filtering the data.
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency. If the custom option is not selected for this filter, the start time and end time will be ignored.
<b>applicationName</b>	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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• device</li> <li>• devicegroup</li> <li>• system</li> </ul>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency.
<b>classNames</b>	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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• device</li> <li>• devicegroup</li> <li>• location</li> </ul>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency.
<b>applicationName</b>	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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• device</li> <li>• devicegroup</li> <li>• system</li> </ul>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency.
<b>classNames</b>	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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• device</li> <li>• devicegroup</li> <li>• location</li> </ul>
<b>srcip</b>	A string that contains the source IP address, which is ignored if the string is empty.
<b>dstip</b>	A string that contains the destination IP address, which is ignored if the string is empty.
<b>srcport</b>	A string that contains the source port number, which is ignored if the string is empty.
<b>dstport</b>	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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• device</li> <li>• devicegroup</li> <li>• system</li> </ul>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency.
<b>classNames</b>	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
<b>name</b>	A string that describes the name of the device, device group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• device</li> <li>• devicegroup</li> <li>• location</li> <li>• system</li> </ul>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency.
<b>applicationName</b>	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
<b>name</b>	A string that describes the name of the WAE.
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> 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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• device</li> <li>• devicegroup</li> <li>• system</li> </ul>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency.
<b>classNames</b>	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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• device</li> <li>• devicegroup</li> <li>• location</li> </ul>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> value that includes the time interval, time zone, and frequency.
<b>applicationName</b>	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
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• device</li> <li>• devicegroup</li> <li>• system</li> </ul>
<b>trafficType</b>	A string that describes the type of traffic. Valid values include the following: <ul style="list-style-type: none"> <li>• passthrough</li> <li>• optimized</li> </ul> <p>Note: trafficType is not used in filtering the data.</p>
<b>direction</b>	A string that describes the direction of the traffic. Valid values include the following: <ul style="list-style-type: none"> <li>• inbound</li> <li>• outbound</li> <li>• bidirectional</li> </ul> <p>Note: direction is not used in filtering the data.</p>
<b>timeframe</b>	A <a href="#">TimeFrameFilter</a> 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.

# retrieveDeviceStats

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

## Input Parameters

Parameter	Description
<b>name</b>	A string that describes the name of the WAE, WAE group, or system.
<b>objType</b>	A string that describes the object type. Valid values include the following: <ul style="list-style-type: none"> <li>• wae</li> <li>• waegroup</li> <li>• device</li> <li>• devicegroup</li> <li>• system</li> </ul>

## Return

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

## Exceptions

Type	String	Description
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Invalid name=	The device name is invalid.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Invalid TimeFrame	The timeframe is invalid.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Device does not exist.DeviceName=	The device name is not found.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Device Group does not exist.DeviceGroup=	The device group name is not found.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Invalid frequency=	The frequency is invalid.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Invalid startTime=	The start time is invalid.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:Invalid endTime=	The end time is invalid.
RemoteException	DeviceStatsService.retrieveDeviceStats: ERROR:startTime should be less than endTime startTime=	The start time is less than the end time.

AxisFault	DeviceStats:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceStats:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceStats:The Requested WebService is not available	The service requested is not supported.
AxisFault	retrieveDeviceStats:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.