



## ICA Statistics Service

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This chapter describes the ICA Statistics service, which returns ICA accelerator data and statistics for individual WAEs, device groups, and for the WAAS network.

This chapter contains the following sections:

- [ICA Statistics Service Syntax](#)
- [ICA Statistics Service Actions](#)

### ICA Statistics Service Syntax

This section contains the following topics:

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

### ICA Statistics Informational URLs

This section provides informational URLs for the ICA Statistics service.

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

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

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

## ICA Statistics Example Request

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

```
<?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:getConnStats xmlns:ns2="http://service.stats.ws.waas.cisco.com">
  <ns2:name>ce-119-40</ns2:name>
  <ns2:objType>wae</ns2:objType>
- <ns2:timeframe>
  <ns1:endTime
xmlns:ns1="http://util.ws.waas.cisco.com/xsd">2008-01-30T08:00:00.000Z</ns1:endTime>
  <ns1:frequency xmlns:ns1="http://util.ws.waas.cisco.com/xsd">lasthour</ns1:frequency>
  <ns1:startTime
xmlns:ns1="http://util.ws.waas.cisco.com/xsd">2012-04-16T17:59:24.000Z</ns1:startTime>
  <ns1:timezone xmlns:ns1="http://util.ws.waas.cisco.com/xsd">UTC</ns1:timezone>
</ns2:timeframe>
</ns2:getConnStats>
</soapenv:Body>
</soapenv:Envelope>
```

## ICA Statistics Example Response

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

```
<?xml version="1.0" encoding="utf-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
- <soapenv:Body>
- <ns:getConnStatsResponse xmlns:ns="http://service.stats.ws.waas.cisco.com"
xmlns:ax225="http://io.java/xsd" xmlns:ax227="http://stats.ws.waas.cisco.com/xsd"
xmlns:ax226="http://util.ws.waas.cisco.com/xsd" xmlns:ax224="http://rmi.java/xsd">
- <ns:return type="com.cisco.waas.ws.stats.ICAConnectionStats">
  <ax227:cgpConnections>66</ax227:cgpConnections>
  <ax227:cgpconnections>24</ax227:cgpconnections>
  <ax227:currentActiveConnections>100</ax227:currentActiveConnections>
  <ax227:deviceName>someName</ax227:deviceName>
  <ax227:endtime>2012-04-16T17:59:26.628Z</ax227:endtime>
  <ax227:frequency>min</ax227:frequency>
  <ax227:icaConnections>44</ax227:icaConnections>
  <ax227:maxActiveConnections>123</ax227:maxActiveConnections>
  <ax227:pendingConnections>18</ax227:pendingConnections>
  <ax227:totalDroppedConnections>7</ax227:totalDroppedConnections>
  <ax227:totalHandedOffConnections>21</ax227:totalHandedOffConnections>
```

```
<ax227:totalHandledConnections>88</ax227:totalHandledConnections>  
<ax227:totalOptimizedConnections>66</ax227:totalOptimizedConnections>  
</ns:return>  
</ns:getConnStatsResponse>  
</soapenv:Body>  
</soapenv:Envelope>
```

## ICA Statistics Service Actions

The ICA Statistics (ICA Web Service) performs one or more of the following actions:

- [getBypassedReasons](#)
- [getConnStats](#)
- [getDroppedReasons](#)
- [getEncryptionStats](#)
- [getVersionStats](#)

# getBypassedReasons

Retrieves statistics about why connections were bypassed for ICA optimization.

## 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.

## Return

The output parameter **ICABypassedReasons[]** returns a [ICABypassedReasons](#) value that provides the statistics about why connections were bypassed, including a client being on the denied list, resource limitations, unrecognized protocols, and other reasons.

## Exceptions

Type	String	Description
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Invalid name=	The device name is invalid.
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Invalid TimeFrame	The timeframe is invalid.
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Device does not exist.DeviceName=	The device name is not found.
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Device Group does not exist.DeviceGroup=	The device group name is not found.
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Invalid frequency=	The frequency is invalid.
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Invalid startTime=	The start time is invalid.
RemoteException	IcaStatsService.getBypassedReasons: ERROR:Invalid endTime=	The end time is invalid.

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

# getConnStats

Retrieves statistics about the numbers of connections handled by the ICA AO.

## 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.

## Return

The output parameter **ICAConnectionsStats[]** returns a [ICAConnectionStats](#) value that provides statistical information about various connection values, including the number of ICA connections, the number of active connections, the number of dropped connections, and others.

## Exceptions

Type	String	Description
RemoteException	IcaStatsService.getConnStats: ERROR:Invalid name=	The device name is invalid.
RemoteException	IcaStatsService.getConnStats: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	IcaStatsService.getConnStats: ERROR:Invalid TimeFrame	The timeframe is invalid.
RemoteException	IcaStatsService.getConnStats: ERROR:Device does not exist.DeviceName=	The device name is not found.
RemoteException	IcaStatsService.getConnStats: ERROR:Device Group does not exist.DeviceGroup=	The device group name is not found.
RemoteException	IcaStatsService.getConnStats: ERROR:Invalid frequency=	The frequency is invalid.
RemoteException	IcaStatsService.getConnStats: ERROR:Invalid startTime=	The start time is invalid.
RemoteException	IcaStatsService.getConnStats: ERROR:Invalid endTime=	The end time is invalid.

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

# getDroppedReasons

Retrieves information about how many connections were dropped for each of a variety of reasons.

## 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.

## Return

The output parameter **ICADroppedReasons[]** returns a [ICADroppedReasons](#) value that provides information about how many connections were dropped for various reasons.

## Exceptions

Type	String	Description
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Invalid name=	The device name is invalid.
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Invalid TimeFrame	The timeframe is invalid.
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Device does not exist.DeviceName=	The device name is not found.
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Device Group does not exist.DeviceGroup=	The device group name is not found.
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Invalid frequency=	The frequency is invalid.
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Invalid startTime=	The start time is invalid.
RemoteException	IcaStatsService.getDroppedReasons: ERROR:Invalid endTime=	The end time is invalid.



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

# getEncryptionStats

Retrieves statistics about the number of ICA sessions using different encryption protocols.

## 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.

## Return

The output parameter **ICAEncryptStats[]** returns a [ICAEncryptStats](#) value that provides information about how many sessions were encrypted using different encryption protocols, including RC5128, RC540, and RC556.

## Exceptions

Type	String	Description
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Invalid name=	The device name is invalid.
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Invalid TimeFrame	The timeframe is invalid.
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Device does not exist.DeviceName=	The device name is not found.
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Device Group does not exist.DeviceGroup=	The device group name is not found.
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Invalid frequency=	The frequency is invalid.
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Invalid startTime=	The start time is invalid.
RemoteException	IcaStatsService.getEncryptionStats: ERROR:Invalid endTime=	The end time is invalid.

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

# getVersionStats

Retrieves information about how many sessions are using different virtualization software versions.

## 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.

## Return

The output parameter **ICAVersionStats[]** returns a [ICAVersionStats](#) value that provides details of how many sessions are using each of several different session management software, including Citrix Receiver 13.0 and four different versions (11.0, 11.2, 12.0, and 12.2) of the Citrix online plug-in.

## Exceptions

Type	String	Description
RemoteException	IcaStatsService.getVersionStats: ERROR:Invalid name=	The device name is invalid.
RemoteException	IcaStatsService.getVersionStats: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	IcaStatsService.getVersionStats: ERROR:Invalid TimeFrame	The timeframe is invalid.
RemoteException	IcaStatsService.getVersionStats: ERROR:Device does not exist.DeviceName=	The device name is not found.
RemoteException	IcaStatsService.getVersionStats: ERROR:Device Group does not exist.DeviceGroup=	The device group name is not found.
RemoteException	IcaStatsService.getVersionStats: ERROR:Invalid frequency=	The frequency is invalid.
RemoteException	IcaStatsService.getVersionStats: ERROR:Invalid startTime=	The start time is invalid.
RemoteException	IcaStatsService.getVersionStats: ERROR:Invalid endTime=	The end time is invalid.

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

