



ICA Statistics Service

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

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ICA Statistics Service Syntax

This section contains the following topics:

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.

```
<?xml version="1.0" encoding="utf-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
```

```

- <soapenv:Header>
- <wsse:Security
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
- <wsse:UsernameToken>
  <wsse:Username>admin</wsse:Username>
  <wsse:Password
Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText">default</wsse:Password>

  </wsse:UsernameToken>
</wsse:Security>
</soapenv:Header>
- <soapenv:Body>
- <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 [#unique_59_unique_59_Connect_42_1059517](#).

```

<?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 |
|------------------|---|
| 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. |

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 |
|------------------|---|
| 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 <FIX XREF> TimeFrameFilter 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. |

| Type | String | Description |
|-----------|---|--|
| 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 |
|------------------|---|
| 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. |

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. |

| Type | String | Description |
|-----------------|---|--|
| 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 |
|----------------|---|
| 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 |

| Parameter | Description |
|------------------|--|
| timeframe | A TimeFrameFilter 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 |
|------------------|---|
| 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. |

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. |

| Type | String | Description |
|-----------------|---|--|
| 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. |