



# Events and Status Service

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This chapter describes the Events and Status service, which returns alarm information, device status, and disk status.

For details about specific alarms, refer to the Alarm Book file that is available on the [Cisco WAAS Software Download page](#).

This chapter contains the following sections:

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## Events and Status Service Syntax

This section contains the following topics:

### Events and Status Informational URLs

This section provides informational URLs for the Events and Status service.

Alarm Status URLs:

- Service URL: **`https://<host/ip>:8443/ws/AlarmStatus`**
- WSDL URL: **`https://<host/ip>:8443/ws/AlarmStatus?wsdl`**

Device Status URLs:

- Service URL: **`https://<host/ip>:8443/ws/DeviceStatus`**
- WSDL URL: `https://<host/ip>:8443/ws/DeviceStatus?wsdl`

Events and Status URLs:

- To obtain a description of all the operations and parameters for the AlarmStatus or the DeviceStatus Web Service, submit a URL to the service with the suffix `?wsdl` as follows:

**`https://<host/ip>:8443/ws/AlarmStatus?wsdl`**

or

**`https://<host/ip>:8443/ws/DeviceStatus?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/AlarmStatus**

or

**https://<host/ip>:8443/ws/DeviceStatus**

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

## Events and Status Example Request

The following example shows an XML-formatted SOAP request to perform the retrieveAllAlarms action. There are no input parameters for this particular action.

```
<?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 />
</soapenv:Envelope>
```

## Events and Status Example Response

The following example shows the XML response that contains the output values for the retrieveAllAlarms action.

```
<?xml version="1.0" encoding="utf-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
- <soapenv:Body>
- <ns:retrieveAllAlarmsResponse xmlns:ns="http://service.stats.ws.waas.cisco.com"
xmlns:ax233="http://stats.ws.waas.cisco.com/xsd" xmlns:ax232="http://io.java/xsd"
xmlns:ax231="http://rmi.java/xsd">
- <ns:return type="com.cisco.waas.ws.stats.Alarm">
  <ax233:acknowledgeComments xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true" />
  <ax233:alarmId
>445001</ax233:alarmId>
  <ax233:alarmName
>core_dump</ax233:alarmName>
  <ax233:alarmState
>0</ax233:alarmState>
  <ax233:category
>3</ax233:category>
  <ax233:description
>Kernel Crash files and / or User Core files detected</ax233:description>
  <ax233:deviceId
>CdmConfig_157</ax233:deviceId>
```

```
<ax233:deviceIpAddress
>2.43.153.39</ax233:deviceIpAddress>
  <ax233:deviceName
>ce-119-39</ax233:deviceName>
    <ax233:deviceStatus
>Online</ax233:deviceStatus>
      <ax233:eventSeq
>1</ax233:eventSeq>
        <ax233:instance
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true" />
          <ax233:moduleId
>1000</ax233:moduleId>
            <ax233:moduleName
>sysmon</ax233:moduleName>
              <ax233:severity
>2</ax233:severity>
                <ax233:timestamp
>1207302327034</ax233:timestamp>
            </ns:return>
          .
        .
      </ns:retrieveAllAlarmsResponse>
    </soapenv:Body>
  </soapenv:Envelope>
```

## Events and Status Service Actions

The Events and Status service (AlarmStatus Web Service) performs one or more of the following actions:

- `getDeviceStatus`
- `getDiskStatus`
- `getDiskInformation`
- `getDiskEncryptStatus`
- `getMonitoredAOs`
- `getMonitoredAOsByWaeIDs`
- `retrieveAllAlarms`
- `retrieveAlarmByName`
- `retrieveAlarmBySeverity`

### **getDeviceStatus**

Retrieves the device status.

### **Input Parameters**

The keyword **name** requires a string that describes the name of the device.

### **Return**

The output parameter **DeviceStatus[]** returns a DeviceStatus value that provides the status of the device.

**Exceptions**

<b>Type</b>	<b>String</b>	<b>Description</b>
RemoteException	DeviceStatusService.getDeviceStatus: ERROR:Invalid name=	The device name is invalid.
RemoteException	DeviceStatusService.getDeviceStatus: ERROR:Device does not exist.DeviceName=	The device name does not exist.
AxisFault	DeviceStatus:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceStatus:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceStatus:The Requested WebService is not available	The service requested is not supported.
AxisFault	getDeviceStatus:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

**getDiskStatus**

Retrieves the physical disk status.

**Input Parameters**

The keyword **name** requires a string that describes the name of the device.

**Return**

The output parameter **DiskStatus[]** returns a DiskStatus value that provides the status of the disk.

**Exceptions**

<b>Type</b>	<b>String</b>	<b>Description</b>
RemoteException	DeviceStatusService.getDiskStatus: ERROR:Invalid name=	The device name is invalid.
RemoteException	DeviceStatusService.getDiskStatus: ERROR:Device does not exist.DeviceName=	The device name does not exist.
AxisFault	DeviceStatus:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceStatus:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceStatus:The Requested WebService is not available	The service requested is not supported.
AxisFault	getDiskeStatus:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

**getDiskInformation**

Retrieves information about the disk.

**Input Parameters**

The keyword **name** requires a string that describes the name of the device.

**Return**

The output parameter **DiskInformation[]** returns a DiskInformation value that provides information about the disk.

**Exceptions**

Type	String	Description
RemoteException	DeviceStatusService.getDiskInformation:ERROR:Invalid name=	The device name is invalid.
RemoteException	DeviceStatusService.getDiskInformation:ERROR:Device does not exist.DeviceName=	The device name does not exist.
AxisFault	DeviceStatus:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceStatus:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceStatus:The Requested WebService is not available	The service requested is not supported.
AxisFault	getDiskInformation:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

**getDiskEncryptStatus**

Retrieves the disk encryption status.

**Input Parameters**

The keyword **name** requires a string that describes the name of the device.

**Return**

The output parameter **DiskEncryption[]** returns a DiskInformation value that provides the status of disk encryption.

**Exceptions**

Type	String	Description
RemoteException	DeviceStatusService.getDiskEncryptStatus:ERROR:Invalid name=	The device name is invalid.
RemoteException	DeviceStatusService.getDiskEncryptStatus:ERROR:Device does not exist.DeviceName=	The device name does not exist.

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

### getMonitoredAOs

Retrieves the operational status of application accelerators for 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>• system</li> </ul>

#### Return

The output parameter **MonitoredAO[]** returns a MonitoredAO value that provides the AO operational status for a WAE.

#### Exceptions

Type	String	Description
RemoteException	DeviceStatusService.getMonitoredAOs: ERROR:Invalid name=	The device name is invalid.
RemoteException	DeviceStatusService.getMonitoredAOs: ERROR:Invalid objType=	The object type is invalid.
RemoteException	DeviceStatusService.getMonitoredAOs: ERROR:Device does not exist.DeviceName=	The device name does not exist.
RemoteException	DeviceStatusService.getMonitoredAOs: ERROR:Device Group does not exist.DeviceGroup=	The device group name does not exist.

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

### getMonitoredAOsByWaeIDs

Retrieves the operational status of application accelerators for a list of device IDs.

#### Input Parameters

Parameter	Description
ids	A data type of long that describes the ID of the WAE.

#### Return

The output parameter **MonitoredAO[]** returns a MonitoredAO value that provides the AO operational status for a WAE.

#### Exceptions

Type	String	Description
RemoteException	DeviceStatusService.getMonitoredAOsByWaeIds: ERROR:Invalid name=	The device name is invalid.
RemoteException	DeviceStatusService.getMonitoredAOsByWaeIds: ERROR:Invalid objType=	The object type is invalid.
RemoteException	DeviceStatusService.getMonitoredAOsByWaeIds: ERROR:Device does not exist.DeviceName=	The device name does not exist.
RemoteException	DeviceStatusService.getMonitoredAOsByWaeIds: ERROR:Device Group does not exist.DeviceGroup=	The device group name does not exist.
AxisFault	DeviceStatus:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceStatus:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceStatus:The Requested WebService is not available	The service requested is not supported.

Type	String	Description
AxisFault	getMonitoredAOsByWaeIds:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

### retrieveAllAlarms

Retrieves all alarms.

#### Input Parameters

None.

#### Return

The output parameter **Alarm[]** returns an Alarm value that provides a list of all alarms.

#### Exceptions

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

### retrieveAlarmByName

Retrieves a list of all alarms filtered by the name of the WAE or WAE group, the object type, or the alarm name. If the alarm name is specified, all alarms matching the alarm name string are returned. If an empty string is specified, all alarms applicable to the WAE or WAE group will be returned.

#### 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> </ul>
<b>alarmName</b>	A string that contains the alarm name.

#### Return



The output parameter **Alarm[]** returns an Alarm value that provides a list of all alarms filtered by the input criteria.

### Exceptions

Type	String	Description
RemoteException	AlarmStatusService.retrieveAlarmsByName: ERROR:Invalid name=	The device name is invalid.
RemoteException	AlarmStatusService.retrieveAlarmsByName: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	AlarmStatusService.retrieveAlarmsByName: ERROR:Invalid alarmName=	The alarm name is not found.
AxisFault	AlarmStatus:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	AlarmStatus:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	AlarmStatus:The Requested WebService is not available	The service requested is not supported.
AxisFault	retrieveAlarmsByName:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

### retrieveAlarmBySeverity

Retrieves a list of all active alarms for the specified WAE or WAE group, further filtered on alarm severity. If the severity is specified as all, alarms of all severities will be returned.

#### 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> </ul>
<b>severity</b>	A String value that describes the alarm severity: <ul style="list-style-type: none"> <li>• minor</li> <li>• major</li> <li>• critical</li> <li>• all</li> </ul>

#### Return

The output parameter **Alarm[]** returns an Alarm value that provides a list of all alarms filtered by the input criteria.

### Exceptions

Type	String	Description
RemoteException	AlarmStatusService.retrieveAlarmsBySeverity: ERROR:Invalid name=	The device name is invalid.
RemoteException	AlarmStatusService.retrieveAlarmsBySeverity: ERROR:Invalid objType=	The object type name is invalid.
RemoteException	AlarmStatusService.retrieveAlarmsBySeverity: ERROR:Invalid severity=	The alarm severity is invalid.
AxisFault	AlarmStatus:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	AlarmStatus:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	AlarmStatus:The Requested WebService is not available	The service requested is not supported.
AxisFault	retrieveAlarmsBySeverity:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.