



# CHAPTER 10

## 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 website](#).

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

- [retrieveAllAlarms](#)
- [retrieveAlarmByName](#)
- [retrieveAlarmBySeverity](#)
- [getDeviceStatus](#)
- [getDiskStatus](#)
- [getDiskInformation](#)
- [getDiskEncryptStatus](#)
- [getMonitoredAOs](#)
- [getMonitoredAOsByWaeIDs](#)

### Alarm Status Syntax

Service URL: `https://<host/ip>:8443/ws/AlarmStatus`

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

### Device Status Syntax

Service URL: `https://<host/ip>:8443/ws/DeviceStatus`

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

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.

The following example shows an XML-formatted SOAP request to perform the [retrieveAllAlarms](#) action. There are no input parameters for this particular action. 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 />
</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: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>
```

# 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.

# 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

Type	String	Description
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

Type	String	Description
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 [DiskEncryption](#) 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.
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.
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.
AxisFault	getMonitoredAOsByWaeIds:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

