



## Device Configuration Service

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This chapter describes the Device Configuration service, which returns device statistics for WAEs and Central Managers.

The Device Configuration service (DeviceConf Web Service) performs one or more of the following actions:

- [getAPIVersion](#)
- [getCM](#)
- [getCMByName](#)
- [getDevice](#)
- [getDeviceByName](#)
- [getDeviceGroups](#)
- [getDevices](#)
- [getDevicesInGroup](#)
- [getDevicesInGroupByName](#)
- [getDevicesPerLocation](#)
- [getLocations](#)
- [getWAE](#)
- [getWAEByName](#)
- [getWAEs](#)
- [getWAEsInGroup](#)
- [getWAEsInGroupByName](#)
- [getWAEsPerLocation](#)
- [getAPIVersion](#)

### Syntax

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

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

To obtain a description of all the operations and parameters for the DeviceConf service, submit a URL to the service with the suffix **?wsdl** as follows:

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

Next, send a SOAP request written in an XML format to retrieve the information. The request calls for a particular action (such as `getWanInfo`) and contains the WS-Security header (username and password) and the input parameter content when required.

The following example shows an XML-formatted SOAP request to perform the `getAPIVersion` 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, such as the hostname, IP address, location, MAC address, and so forth.

### Example Request

```
<?xml version="1.0" encoding="UTF-8" ?>
- <SOAP-ENV:Envelope SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/1999/XMLSchema">
- <SOAP-ENV:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401
  -wss-wssecurity-secext-1.0.xsd">
- <wsse:Security SOAP-ENC:root="1">
- <wsse:UsernameToken>
  <wsse:Username xsi:type="xsd:string">admin</wsse:Username>
  <wsse:Password xsi:type="xsd:string">default</wsse:Password>
</wsse:UsernameToken>
</wsse:Security>
</SOAP-ENV:Header>
- <SOAP-ENV:Body>
  <ns1:getWANInfo xmlns:ns1="http://config.ws.waas.cisco.com" SOAP-ENC:root="1" />
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### Example Response

```
<?xml version="1.0" encoding="UTF-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
- <soapenv:Body>
- <ns:getWANInfoResponse xmlns:ns="http://config.ws.waas.cisco.com"
  xmlns:ax22="http://io.java/xsd" xmlns:ax23="http://config.ws.waas.cisco.com/xsd"
  xmlns:ax21="http://rmi.java/xsd">
- <ns:return type="com.cisco.waas.ws.config.Device">
  <ax23:hostName xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true" />
  <ax23:id>157</ax23:id>
  <ax23:ipAddress>2.43.153.39</ax23:ipAddress>
  <ax23:location />
  <ax23:macAddress>00:14:5e:84:35:59</ax23:macAddress>
  <ax23:model>OE612</ax23:model>
  <ax23:name>ce-119-39</ax23:name>
  <ax23:role>Primary</ax23:role>
  <ax23:softwareVersion>4.1.0.b.51</ax23:softwareVersion>
  <ax23:status>Online</ax23:status>
  <ax23:type>CM</ax23:type>
</ns:return>
- <ns:return type="com.cisco.waas.ws.config.Device">
  <ax23:hostName xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true" />
  <ax23:id>872</ax23:id>
  <ax23:ipAddress>2.43.153.50</ax23:ipAddress>
  <ax23:location>ce-119-40-location</ax23:location>
  <ax23:macAddress>00:14:5e:84:34:c7</ax23:macAddress>
```

```
<ax23:model>OE612</ax23:model>
<ax23:name>ce-119-40</ax23:name>
<ax23:role xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true" />
<ax23:softwareVersion>4.1.0.b.53</ax23:softwareVersion>
<ax23:status>Online</ax23:status>
<ax23:type>WAE</ax23:type>
</ns:return>
</ns:getWANInfoResponse>
</soapenv:Body>
</soapenv:Envelope>
```

# getAPIVersion

Retrieves the version of the Central Manager.

**Input Parameter** None.

**Return** The output parameter **String** returns a [String](#) value for the software version of the Central Manager.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getAPIVersion: ERROR:	

# getCM

Retrieves information about the specified Central Manager.

## Input Parameter

The keyword **id** requires a long value that contains the device name.

## Return

The output parameter **Device** returns a [Device](#) value that provides device information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getCM:ERROR: Invalid id=	The device ID is set to a negative integer.
RemoteException	DeviceConfService.getCM: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getCM: ERROR: Device does not exist.id=	The Central Manager ID is not found.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getCM:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

# getCMByName

Retrieves information about the specified Central Manager.

## Input Parameter

The keyword **name** requires a string value that contains the device name.

## Return

The output parameter **Device** returns a [Device](#) value that provides device information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getCMByName: ERROR:Invalid id=	The device name is not set (is blank or null).
RemoteException	DeviceConfService.getCMByName: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getCMByName: ERROR:Device does not exist.id=	The Central Manager name is not found.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getCM:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

# getDevice

Retrieves information about the specified Device.

## Input Parameter

The keyword **id** requires a long value that contains the device name.

## Return

The output parameter **Device** returns a [Device](#) value that includes device information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getDevice: ERROR:Invalid id=	The device ID is set to a negative integer.
RemoteException	DeviceConfService.getDevice: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getDevice: ERROR:Device does not exist.id=	The device ID is not found on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getDevice:The SOAP Body does not have all the required elements	The SOAP body does not have all the required elements.

# getDeviceByName

Retrieves information about the specified device.

## Input Parameter

The keyword **name** requires a string value that contains the device name.

## Return

The output parameter **Device** returns a [Device](#) value that provides device information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getDeviceByName:ERROR:Invalid id=	The device name is not set (is blank or null).
RemoteException	DeviceConfService.getDeviceByName: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getDeviceByName: ERROR:Device does not exist.id=	The Device name does not exist on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getDeviceByName:The SOAP Body does not have all the required elements	The SOAP body does not have all the required elements.



# getDeviceGroups

Retrieves all of the device groups currently defined in the Central Manager.

**Input Parameter** None.

**Return** The output parameter **DeviceGroup[]** returns a [DeviceGroup](#) value that provides a list of device groups that includes the group name, group type, and description.

## Exceptions

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

# getDevices

Retrieves a list of specified devices.

## Input Parameter

The keyword **ids** requires a long value that contains the device name.

## Return

The output parameter **Device[]** returns a [Device](#) value that provides a list of devices and includes information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

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

# getDevicesInGroup

Retrieves all of the devices that belong to the specified device group.

## Input Parameter

The keyword **deviceGroupId** requires a long value that contains the device name.

## Return

The output parameter **Device[]** returns a [Device](#) value that provides a list of devices belonging to the specified device group.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getDevicesInGroup: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getDevicesInGroup: ERROR:Device Group Id does not exist.DeviceGroupId=	The device group ID is not found on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getDevicesInGroup:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

# getDevicesInGroupName

Retrieves all of the devices that belong to the specified device group by name.

## Input Parameter

The keyword **name** requires a string value that contains the device name.

## Return

The output parameter **Device[]** returns a [Device](#) value that provides a list of devices belonging to the specified device group.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getDevicesInGroupByName: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getDevicesInGroupByName: ERROR: Group Name does not exist.DeviceGroupName=	The device group name is not found on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getDevicesInGroupName:The SOAP Body does not have all the required elements	The SOAP body does not have all the required elements.

# getDevicesPerLocation

Retrieves all of the device names with a location ID.

**Input Parameter** The keyword **id** requires a long value that contains the location ID.

**Return** The output parameter **String[]** returns a [String](#) value that provides a list of device names.

**Exceptions** None.

# getLocations

Retrieves all of the locations configured on the system.

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**Input Parameter**

None.

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**Return**

The output parameter **Location[]** returns a [Location](#) value that provides a list of locations belonging to the specified device group.

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**Exceptions**

None.

# getWANInfo

Retrieves the current Central Manager and WAE information that is available on the requested Central Manager.

**Input Parameter** None.

**Return** The output parameter **Device[]** returns a [Device](#) value that provides a list of device tuples, including the device name, status, and device type.

## Exceptions

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

# getWAE

Retrieves information about the specified WAE.

## Input Parameter

The keyword **id** requires a long value that contains the device name.

## Return

The output parameter **Device** returns a [Device](#) value that includes device information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getWAE: ERROR:Invalid id=	The device ID is set to a negative integer.
RemoteException	DeviceConfService.getWAE: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getWAE: ERROR:Device does not exist.id=	The WAE ID is not found on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getWAE:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.



# getWAEByName

Retrieves information about the specified WAE.

## Input Parameter

The keyword **name** requires a string value that contains the device name.

## Return

The output parameter **Device** returns a [Device](#) value that provides device information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getWAEByName: ERROR:Invalid id=	The device name is not set (is blank or null).
RemoteException	DeviceConfService.getWAEByName: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getWAEByName: ERROR:Device does not exist.id=	The WAE name does not exist on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getWAEByName:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

# getWAEs

Retrieves a list of specified devices.

## Input Parameter

The keyword **ids** requires a long value that contains the device name.

## Return

The output parameter **Device[]** returns a [Device](#) value that provides a list of devices and includes information such as the device name, IP address, status, device type, software version, model, and full DNS name.

## Exceptions

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

# getWAEsInGroup

Retrieves all of the devices that belong to the specified device group.

## Input Parameter

The keyword **deviceGroupId** requires a long value that contains the device name.

## Return

The output parameter **Device[]** returns a [Device](#) value that provides a list of devices belonging to the specified device group.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getWAEsInGroup: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getWAEsInGroup: ERROR:Device Group Id does not exist.DeviceGroupId=	The device group ID is not found on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getWAEsInGroup:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

# getWAEsInGroupByName

Retrieves all of the devices that belong to the specified device group by name.

## Input Parameter

The keyword **name** requires a string value that contains the device name.

## Return

The output parameter **Device[]** returns a [Device](#) value that provides a list of devices belonging to the specified device group.

## Exceptions

Type	String	Description
RemoteException	DeviceConfService.getWAEsInGroupByName: ERROR:	Unhandled exception.
RemoteException	DeviceConfService.getWAEsInGroupByName: ERROR: Group Name does not exist.DeviceGroupName=	The device group name is not found on the Central Manager.
AxisFault	DeviceConf:The Method Name is not supported. MethodName=	The method name is not supported for a given service.
AxisFault	DeviceConf:The SOAP Envelope Body is Null	The SOAP envelope is missing for a given service.
AxisFault	DeviceConf:The Requested WebService is not available	The service requested is not supported.
AxisFault	getWAEsInGroupByName:The SOAP Body doesn't have all the required elements	The SOAP body does not have all the required elements.

# getWAEsPerLocation

Retrieves all of the device names with a location ID.

**Input Parameter** The keyword **id** requires a long value that contains the location ID.

**Return** The output parameter **String[]** returns a [String](#) value that provides a list of device names.

**Exceptions** None.

