



# Managing Chassis

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## Chassis Inventory Tasks

The examples in this section show how to use the Cisco IMC XML API to retrieve chassis inventory details. Each example shows the XML API request followed by the response from Cisco IMC.

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### Retrieving Power Supply Properties

Request:

```
<configResolveClass cookie="1256511180/f78548f2-ca76-16ca-8004-aaec921b0ff4"  
inHierarchical="false" classId="equipmentPsu"/>
```

Response:

```
<configResolveClass cookie="1473455878/95c48a0a-1a3c-1c1a-8003-be18652a6ca4"
response="yes" classId="equipmentPsu">
<outConfigs>
  <equipmentPsu id="1" pid="UCSC-PSU1-1050W" model="PS-2112-9S-LF"
operability="operable" power="on" presence="equipped" serial="LIT18520J9K"
thermal="ok" vendor="Cisco Systems Inc" voltage="ok" input="0" maxOutput="0"
fwVersion="10062013" dn="sys/chassis-1/psu-1"/>
  <equipmentPsu id="2" pid="UCSC-PSU1-1050W" model="PS-2112-9S-LF" operability="operable"
power="on" presence="equipped" serial="LIT18520JCA" thermal="ok" vendor="Cisco Systems
Inc"
voltage="ok" input="0" maxOutput="0" fwVersion="10062013" dn="sys/chassis-1/psu-2"/>
  <equipmentPsu id="3" pid="UCSC-PSU1-1050W" model="PS-2112-9S-LF" operability="operable"
power="on" presence="equipped" serial="LIT18520JBZ" thermal="ok" vendor="Cisco Systems
Inc"
voltage="ok" input="0" maxOutput="0" fwVersion="10062013" dn="sys/chassis-1/psu-3"/>
  <equipmentPsu id="4" pid="UCSC-PSU1-1050W" model="PS-2112-9S-LF" operability="operable"
power="on" presence="equipped" serial="LIT18520JC1" thermal="ok" vendor="Cisco Systems
Inc"
voltage="ok" input="452" maxOutput="404" fwVersion="10062013" dn="sys/chassis-1/psu-4"/>
</outConfigs>
</configResolveClass>
```

### Retrieving Power Supply Properties Using DN

Request:

```
<configResolveDn cookie="1256511180/f78548f2-ca76-16ca-8004-aaec921b0ff4"
inHierarchical="true" dn='sys/chassis-1/psu-1'/>
```

Response:

```
<configResolveDn cookie="1473455878/95c48a0a-1a3c-1c1a-8003-be18652a6ca4"
response="yes" dn="sys/chassis-1/psu-1">
<outConfig>
  <equipmentPsu id="1" pid="UCSC-PSU1-1050W" model="PS-2112-9S-LF" operability="operable"
power="on" presence="equipped" serial="LIT18520J9K" thermal="ok" vendor="Cisco Systems
Inc"
voltage="ok" input="0" maxOutput="0" fwVersion="10062013" dn="sys/chassis-1/psu-1"/>
</outConfig>
</configResolveDn>
```

### Retrieving Fan Properties

Request:

```
<configResolveClass cookie="1256511180/f78548f2-ca76-16ca-8004-aaec921b0ff4"
inHierarchical="true" classId="equipmentFanModule"/>
```

Response:

```
<configResolveClass cookie="1256511180/f78548f2-ca76-16ca-8004-aaec921b0ff4"
response="yes" classId="equipmentFanModule">
<outConfigs>
  <equipmentFanModule id="1" model="" operability="unknown" power="on"
presence="equipped" serial="" thermal="not-supported" tray="1" vendor=""
voltage="not-supported" dn="sys/chassis-1/fan-module-1-1">
  <equipmentFan id="1" model="" module="1" operability="unknown" power="on"
presence="equipped" serial="" thermal="not-supported" tray="1" vendor=""
voltage="not-supported" rn="fan-1"/>
  <equipmentFan id="2" model="" module="1" operability="unknown"
```

```

    power="on" presence="equipped" serial="" thermal="not-supported"
    tray="1" vendor="" voltage="not-supported" rn="fan-2"/>
</equipmentFanModule>
<equipmentFanModule id="2" model="" operability="unknown"
  power="on" presence="equipped" serial="" thermal="not-supported"
  tray="1" vendor="" voltage="not-supported" dn="sys/chassis-1/fan-module-1-2">
<equipmentFan id="1" model="" module="2" operability="unknown"
  power="on" presence="equipped" serial="" thermal="not-supported"
  tray="1" vendor="" voltage="not-supported" rn="fan-1"/>
<equipmentFan id="2" model="" module="2" operability="unknown"
  power="on" presence="equipped" serial="" thermal="not-supported"
  tray="1" vendor="" voltage="not-supported" rn="fan-2"/>
</equipmentFanModule>
<equipmentFanModule id="3" model="" operability="unknown" power="on"
  presence="equipped" serial="" thermal="not-supported" tray="1"
  vendor="" voltage="not-supported" dn="sys/chassis-1/fan-module-1-3">
<equipmentFan id="1" model="" module="3" operability="unknown" power="on"
  presence="equipped" serial="" thermal="not-supported" tray="1"
  vendor="" voltage="not-supported" rn="fan-1"/>
<equipmentFan id="2" model="" module="3" operability="unknown" power="on"
  presence="equipped" serial="" thermal="not-supported" tray="1"
  vendor="" voltage="not-supported" rn="fan-2"/>
</equipmentFanModule>
<equipmentFanModule id="4" model="" operability="unknown" power="on"
  presence="equipped" serial="" thermal="not-supported" tray="1"
  vendor="" voltage="not-supported" dn="sys/chassis-1/fan-module-1-4">
<equipmentFan id="1" model="" module="4" operability="unknown" power="on"
  presence="equipped" serial="" thermal="not-supported" tray="1" vendor=""
  voltage="not-supported" rn="fan-1"/>
<equipmentFan id="2" model="" module="4" operability="unknown" power="on"
  presence="equipped" serial="" thermal="not-supported" tray="1" vendor=""
  voltage="not-supported" rn="fan-2"/>
</equipmentFanModule>
</outConfigs>
</configResolveClass>

```

## Retrieving Fan Properties Using DN

Request:

```

<configResolveDn cookie="1256514416/cc6493cf-cb76-16cb-8005-aaec921b0ff4"
  inHierarchical="false" dn="sys/chassis-1/fan-module-1-3/fan-2"/>

```

Response:

```

<configResolveDn cookie="1256514416/cc6493cf-cb76-16cb-8005-aaec921b0ff4"
  response="yes" dn="sys/chassis-1/fan-module-1-3/fan-2">
  <outConfig>
    <equipmentFan id="2" model="" module="3" operability="unknown"
      power="on" presence="equipped" serial="" thermal="not-supported"
      tray="1" vendor="" voltage="not-supported"
      dn="sys/chassis-1/fan-module-1-3/fan-2"/>
  </outConfig>
</configResolveDn>

```

## Retrieving Indicator LED Status

Request:

```

<configResolveClass cookie="1256514920/8c2af8ff-cb76-16cb-8006-aaec921b0ff4"
  inHierarchical="true" classId="equipmentIndicatorLed"/>

```

Response:

```

<configResolveClass cookie="1256514920/8c2af8ff-cb76-16cb-8006-aaec921b0ff4"
  response="yes" classId="equipmentIndicatorLed">

```

```

<outConfigs>
  <equipmentIndicatorLed color="green" id="1" name="LED_HLTH_STATUS"
    operState="off" dn="sys/chassis-1/indicator-led-1"/>
  <equipmentIndicatorLed color="green" id="2" name="LED_PSU_STATUS"
    operState="on" dn="sys/chassis-1/indicator-led-2"/>
  <equipmentIndicatorLed color="green" id="3" name="LED_TEMP_STATUS"
    operState="on" dn="sys/chassis-1/indicator-led-3"/>
  <equipmentIndicatorLed color="green" id="4" name="LED_FAN_STATUS"
    operState="on" dn="sys/chassis-1/indicator-led-4"/>
</outConfigs>
</configResolveClass>

```

## Retrieving Indicator LED Status using DN

Request:

```

<configResolveDn cookie="1256515596/c4969312-cc76-16cc-8007-aaec921b0ff4"
  inHierarchical="true" dn='sys/chassis-1/indicator-led-3'/>

```

Response:

```

<configResolveDn cookie="1256515596/c4969312-cc76-16cc-8007-aaec921b0ff4"
  response="yes" dn="sys/chassis-1/indicator-led-3">
  <outConfig>
    <equipmentIndicatorLed color="green" id="3" name="LED_TEMP_STATUS"
      operState="on" dn="sys/chassis-1/indicator-led-3"/>
  </outConfig>
</configResolveDn>

```

## Retrieving System Input Output Controller Properties

Request:

```

<configResolveClass cookie="1256515596/c4969312-cc76-16cc-8007-aaec921b0ff4"
  inHierarchical="true" classId="equipmentIOCard"/>

```

Response:

```

<configResolveClass cookie="1256515596/c4969312-cc76-16cc-8007-aaec921b0ff4"
  response="yes" classId="equipmentIOCard">
  <outConfigs>
    <equipmentIOCard id="1" description="SIOC - System Input Output Controller"
      dn="sys/chassis-1/slot-1">
      <mgmtController rn="mgmt" model="NA" serial="NA" subject="sioc"
        vendor="Cisco Systems Inc">
      <firmwareRunning rn="fw-system"
        description="System IO Controller currently running firmware version"
        deployment="system" type="sioc" version="0.0(4.r202233)"/>
      <firmwareUpdatable rn="fw-updatable"
        description="System IO Controller backup firmware version"
        adminState="triggered" deployment="backup" operState="ready"
        version="2.0(6.11)" protocol="none" remoteServer="" remotePath="" user=""
        pwd="" progress="Success" type="sioc"/>
      <firmwareBootDefinition rn="fw-boot-def" type="sioc">
      <firmwareBootUnit rn="bootunit-combined"
        description="System Input Out Controller startup firmware version"
        adminState="triggered" image="running" resetOnActivate="no"
        type="combined" version="0.0(4.r202233)"/>
    </firmwareBootDefinition>
    <mgmtIf rn="if-1" description="Chassis Management Interface Network Settings"
      id="1" extEnabled="yes" extIp="10.106.145.78" extMask="255.255.255.0"
      extGw="10.106.145.1" ifType="physical" mac="F4:0F:1B:92:EC:AA"
      hostname="UCS-server-name1" dhcpEnable="yes" dnsUsingDhcp="yes" ddnsEnable="yes"
      ddnsDomain="" dnsPreferred="171.70.168.183" dnsAlternate="0.0.0.0"
      nicMode="dedicated" vicSlot="1" nicRedundancy="none"
      vlanEnable="no" vlanId="1" vlanPriority="0" portProfile=""
      v6extEnabled="no" v6extIp="::" v6extGw="::" v6prefix="64"

```

```

        v6linkLocal="::" v6SlaacIp="::" v6dhcpEnable="no" v6dnsUsingDhcp="no"
        v6dnsPreferred="::" v6dnsAlternate="::" subject="blade"/>
    </mgmtController>
</equipmentIOCard>
<equipmentIOCard id="2" description="SIOC - System Input Output Controller"
dn="sys/chassis-1/slot-2">
    <mgmtController rn="mgmt" model="NA" serial="NA" subject="sioc"
    vendor="Cisco Systems Inc">
        <firmwareRunning rn="fw-system"
        description="System IO Controller currently running firmware version"
        deployment="system" type="sioc" version="0.0(4.r202233)"/>
        <firmwareUpdatable rn="fw-updatable"
        description="System IO Controller backup firmware version"
        adminState="triggered" deployment="backup" operState="ready"
        version="0.0(4.r202050)" protocol="none" remoteServer=""
        remotePath="" user="" pwd="" progress="Success" type="sioc"/>
        <firmwareBootDefinition rn="fw-boot-def" type="sioc">
            <firmwareBootUnit rn="bootunit-combined"
            description="System Input Out Controller startup firmware version"
            adminState="triggered" image="running" resetOnActivate="no"
            type="combined" version="0.0(4.r202233)"/>
        </firmwareBootDefinition>
        <mgmtIf rn="if-1" description="Chassis Management Interface Network Settings"
        id="1" extEnabled="yes" extIp="10.106.145.253" extMask="255.255.255.0"
        extGw="10.106.145.1" ifType="physical" mac="F4:0F:1B:92:7A:C4"
        hostname="UCS-server-name2" dhcpEnable="yes" dnsUsingDhcp="yes"
        ddnsEnable="yes" ddnsDomain="" dnsPreferred="171.70.168.183"
        dnsAlternate="0.0.0.0" nicMode="dedicated" vicSlot="1" nicRedundancy="none"
        vlanEnable="no" vlanId="1" vlanPriority="0" portProfile="" v6extEnabled="no"
        v6extIp="::" v6extGw="::" v6prefix="64" v6linkLocal="::" v6SlaacIp="::"
        v6dhcpEnable="no" v6dnsUsingDhcp="no" v6dnsPreferred="::"
        v6dnsAlternate="::" subject="blade"/>
    </mgmtController>
</equipmentIOCard>
</outConfigs>
</configResolveClass>

```

## Retrieving System Input Output Controller Properties using DN

Request:

```

<configResolveDn cookie="1256516771/c56962d3-cb76-16cb-8008-aaec921b0ff4"
inHierarchical="true" dn='sys/chassis-1/slot-2'/>

```

Response:

```

<configResolveDn cookie="1256516771/c56962d3-cb76-16cb-8008-aaec921b0ff4"
response="yes" dn="sys/chassis-1/slot-2">
    <outConfig>
        <equipmentIOCard id="2" description="SIOC - System Input Output Controller"
        dn="sys/chassis-1/slot-2">
            <mgmtController rn="mgmt" model="NA" serial="NA"
            subject="sioc" vendor="Cisco Systems Inc">
                <firmwareRunning rn="fw-system"
                description="System IO Controller currently running firmware version"
                deployment="system" type="sioc" version="0.0(4.r202233)"/>
                <firmwareUpdatable rn="fw-updatable"
                description="System IO Controller backup firmware version"
                adminState="triggered" deployment="backup" operState="ready"
                version="0.0(4.r202050)" protocol="none" remoteServer=""
                remotePath="" user="" pwd="" progress="Success" type="sioc"/>
                <firmwareBootDefinition rn="fw-boot-def" type="sioc">
                    <firmwareBootUnit rn="bootunit-combined"
                    description="System Input Out Controller startup firmware version"
                    adminState="triggered" image="running" resetOnActivate="no"
                    type="combined" version="0.0(4.r202233)"/>
                </firmwareBootDefinition>
                <mgmtIf rn="if-1" description="Chassis Management Interface Network Settings"
                id="1" extEnabled="yes" extIp="10.106.145.253" extMask="255.255.255.0"
                extGw="10.106.145.1" ifType="physical" mac="F4:0F:1B:92:7A:C4"
                hostname="UCS-server-name2" dhcpEnable="yes" dnsUsingDhcp="yes"

```

```

        ddnsEnable="yes" ddnsDomain="" dnsPreferred="171.70.168.183"
        dnsAlternate="0.0.0.0" nicMode="dedicated" vicSlot="1"
        nicRedundancy="none" vlanEnable="no" vlanId="1"
        vlanPriority="0" portProfile="" v6extEnabled="no"
        v6extIp="::" v6extGw="::" v6prefix="64" v6linkLocal="::"
        v6SlaacIp="::" v6dhcpEnable="no" v6dnsUsingDhcp="no" v6dnsPreferred="::"
        v6dnsAlternate="::" subject="blade"/>
    </mgmtController>
</equipmentIOCard>
</outConfig>
</configResolveDn>

```

## Configuring Single Server Dual SIOC or Single Server Single SIOC

Request:

```

<configConfMo dn='sys/chassis-1'
cookie='1485323787/b1213d94-e546-16e5-8004-f22a145daae4' inHierarchical='false'>
<inConfig>
<equipmentChassis dn='sys/chassis-1'
serverSIOConnectivity='single-server-single-sioc'
rebootHost='yes' />
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn='sys/chassis-1'
cookie='1485323787/b1213d94-e546-16e5-8004-f22a145daae4' response="yes">
<outConfig>
<equipmentChassis dn='sys/chassis-1 name="UCS S3260"
serial="FCH18207WEB" model="UCSS-S3260-BASE" usrLbl=""
assetTag="Unknown" serverSIOConnectivity="single-server-single-sioc"
rebootHost="yes" status="modified"/>
</outConfig>
</configConfMo>

```



### Note

- To configure single server dual SIOC, use `serverSIOConnectivity='single-server-dual-sioc'` in the command.
- To enable the single or dual SIOC without rebooting the host, use `rebootHost="no"` in the command.

## Dynamic Storage Tasks

The examples in this section show how to use the Cisco IMC XML API to retrieve and perform dynamic storage tasks. Each example shows the XML API request followed by the response from Cisco IMC.

This section includes the following examples:

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- [Retrieving Chassis Storage Disk Slot](#), on page 8
- [Retrieving Chassis Storage Disk Slot Using DN](#), on page 8
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- [Retrieving Chassis Storage Disk Using DN](#), on page 9

- [Assigning Physical Drives to Servers, on page 10](#)
- [Unassigning Physical Drives, on page 10](#)
- [Enabling or Disabling the 6G or 12G Mixed Mode Speed on SAS Expander, on page 10](#)

## Retrieving SAS Expander Properties

Request:

```
<configResolveClass cookie="0960329953/d2022d82-6a69-196a-8002-82f92a02b884"
inHierarchical="true" classId="chassisStorage"/>
```

Response:

```
<configResolveClass cookie="0960329953/d2022d82-6a69-196a-8002-82f92a02b884" res
ponse="yes" classId="chassisStorage">
<outConfigs>
  <chassisStorage dn="sys/chassis-1/storage" description="Chassis scope dynamic storage
management">
    <storageChassisDisk slot="1" diskstate="done" vendor="WD" productId="WD400
1FYYG-01SL3" revision="VR07" serial="WMC1F1927484" blocksize="512" blockcount="7
814037168" size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb
" sasaddress1="50000c0f01e85d26" sasaddress2="50000c0f01e85d27" ownership="none"
health="good" rn="disk-1"/>
    <storageChassisDisk slot="2" diskstate="done" vendor="WD" productId="WD400
1FYYG-01SL3" revision="VR07" serial="WMC1F1930758" blocksize="512" blockcount="7
814037168" size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb
" sasaddress1="50000c0f01e85bd6" sasaddress2="50000c0f01e85bd7" ownership="none"
health="good" rn="disk-2"/>
    <storageChassisDisk slot="3" diskstate="done"
vendor="WD" productId="WD4001FYYG-01SL3" revision="VR07"
serial="WMC1F1930961" blocksize="512" blockcount="7814037168"
size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb"
sasaddress1="50000c0f01e85a0a" sasaddress2="50000c0f01e85a0b"
ownership="none" health="good" rn="disk-3"/>
    ...
    ...
    ...
    <storageChassisDisk slot="60" diskstate="done"
vendor="WD" productId="WD4001FYYG-01SL3" revision="VR07"
serial="WMC1F1926558" blocksize="512" blockcount="7814037168"
size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb"
sasaddress1="50000c0f012eb1f6" sasaddress2="50000c0f012eb1f7"
ownership="server1" health="good" rn="disk-60"/>
    <storageChassisDiskSlotEp slot="1" health="good" presence="done" rn="diskslot-1">
      <computeServerRef slot="1" diskstate="done"
ownership="none" rn="server-ref-none"/>
    </storageChassisDiskSlotEp>
    <storageChassisDiskSlotEp slot="2"
health="good" presence="done" rn="diskslot-2">
      <computeServerRef slot="2" diskstate="done"
ownership="none" rn="server-ref-none"/>
    </storageChassisDiskSlotEp>
    <storageChassisDiskSlotEp slot="54" health="fault"
presence="Drive Discovery Error" rn="diskslot-54">
      <computeServerRef slot="54" diskstate="Drive Discovery Error"
ownership="none" rn="server-ref-none"/>
      <faultInst ack="yes" cause="equipment-inoperable"
code="F0181" created="2000-06-06T07:51:39"
descr="Storage Local disk 54 is inoperable: reseal or replace the storage drive
54"
affectedDN="sys/chassis-1/storage/diskslot-54"
highestSeverity="critical" id="3506451968"
lastTransition="2000-06-06T07:51:28" lc="flapping"
occur="4" origSeverity="cleared" prevSeverity="cleared"
rule="fltStorageLocalDiskInoperable">
    </storageChassisDiskSlotEp>
  </chassisStorage>
</outConfigs>
</configResolveClass>
```

```

        severity="major" tags="storage" type="server" rn="fault-F0181"/>
      </storageChassisDiskSlotEp>
    ....
    ....
    ....
  </chassisStorage>
</outConfigs>
</configResolveClass>

```

## Retrieving Chassis Storage Disk Slot

Request:

```
<configResolveClass cookie="0960331076/16b9fadd-6a69-196a-8003-82f92a02b884"
inHierarchical="true" classId="storageChassisDiskSlotEp"/>
```

Response:

```
<configResolveClass cookie="0960331076/16b9fadd-6a69-196a-8003-82f92a02b884"
response="yes" classId="storageChassisDiskSlotEp">
  <outConfigs>
    <storageChassisDiskSlotEp slot="1" health="good"
      presence="done" dn="sys/chassis-1/storage/diskslot-1">
      <computeServerRef slot="1" diskstate="done"
        ownership="none" rn="server-ref-none"/>
    </storageChassisDiskSlotEp>
    <storageChassisDiskSlotEp slot="2" health="good"
      presence="done" dn="sys/chassis-1/storage/diskslot-2">
      <computeServerRef slot="2" diskstate="done"
        ownership="none" rn="server-ref-none"/>
    </storageChassisDiskSlotEp>
    ...
    ...
    <storageChassisDiskSlotEp slot="54" health="fault" presence="Drive Discovery
      Error" dn="sys/chassis-1/storage/diskslot-54">
      <computeServerRef slot="54" diskstate="Drive Discovery Error"
        ownership="none" rn="server-ref-none"/>
      <faultInst ack="yes" cause="equipment-inoperable"
        code="F0181" created="2000-06-06T07:51:39"
        descr="Storage Local disk 54 is inoperable: reseal or replace the storage drive 54"
        affectedDN="sys/chassis-1/storage/diskslot-54"
        highestSeverity="critical" id="3506451968"
        lastTransition="2000-06-06T07:51:28" lc="flapping"
        occur="4" origSeverity="cleared" prevSeverity="cleared"
        rule="fltStorageLocalDiskInoperable" severity="major"
        tags="storage" type="server" rn="fault-F0181"/>
    </storageChassisDiskSlotEp>
    ...
    ...
  </outConfigs>
</configResolveClass>

```

## Retrieving Chassis Storage Disk Slot Using DN

Request:

```
<configResolveDn cookie="0960344358/94c74f08-6e69-196e-8005-82f92a02b884"
inHierarchical="true" dn='sys/chassis-1/storage/diskslot-12'/>
```

Response:

```
<configResolveDn cookie="0960344358/94c74f08-6e69-196e-8005-82f92a02b884"
response="yes" dn="sys/chassis-1/storage/diskslot-12">
  <outConfig>
    <storageChassisDiskSlotEp slot="12" health="good"

```



```

        presence="done" dn="sys/chassis-1/storage/diskslot-12">
          <computeServerRef slot="12" diskstate="done"
            ownership="server1" rn="server-ref-server1"/>
        </storageChassisDiskSlotEp>
      </outConfig>
    </configResolveDn>
  >

```

## Retrieving Chassis Storage Disk

Request:

```

<configResolveClass cookie="0960344358/94c74f08-6e69-196e-8005-82f92a02b884"
inHierarchical="true" classId="storageChassisDisk"/>

```

Response:

```

<configResolveClass cookie="0960344358/94c74f08-6e69-196e-8005-82f92a02b884"
response="yes" classId="storageChassisDisk">
  <outConfigs>
    <storageChassisDisk slot="1" diskstate="done" vendor="WD"
      productId="WD4001FYYG-01SL3" revision="VR07"
      serial="WMC1F1927484" blocksize="512" blockcount="7814037168"
      size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb"
      sasaddress1="50000c0f01e85d26" sasaddress2="50000c0f01e85d27"
      ownership="none" health="good" dn="sys/chassis-1/storage/disk-1"/>
    <storageChassisDisk slot="2" diskstate="done"
      vendor="WD" productId="WD4001FYYG-01SL3" revision="VR07"
      serial="WMC1F1930758" blocksize="512" blockcount="7814037168"
      size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb"
      sasaddress1="50000c0f01e85bd6" sasaddress2="50000c0f01e85bd7" ownership="none"
      health="good" dn="sys/chassis-1/storage/disk-2"/>
    ...
    ...
    <storageChassisDisk slot="59" diskstate="done" vendor="WD"
      productId="WD4001FYYG-01SL3" revision="VR07"
      serial="WMC1F1928804" blocksize="512" blockcount="7814037168"
      size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb"
      sasaddress1="50000c0f01e85532" sasaddress2="50000c0f01e85533"
      ownership="server1" health="good" dn="sys/chassis-1/storage/disk-59"/>
    <storageChassisDisk slot="60" diskstate="done" vendor="WD"
      productId="WD4001FYYG-01SL3" revision="VR07"
      serial="WMC1F1926558" blocksize="512" blockcount="7814037168"
      size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb"
      sasaddress1="50000c0f012eb1f6" sasaddress2="50000c0f012eb1f7"
      ownership="server1" health="good" dn="sys/chassis-1/storage/disk-60"/>
  </outConfigs>
</configResolveClass>

```

## Retrieving Chassis Storage Disk Using DN

Request:

```

<configResolveDn cookie="0955686332/993f316f-3165-1531-8002-a35a6a1b0ff4"
inHierarchical="false" dn='sys/chassis-1/storage/disk-1'/>

```

Response:

```

<configResolveDn cookie="0960347338/0cad041e-6f69-196f-8007-82f92a02b884"
response="yes" dn="sys/chassis-1/storage/disk-23">
  <outConfig>
    <storageChassisDisk slot="23" diskstate="done"
      vendor="TOSHIBA" productId="MG03SCA400" revision="5702"
      serial="1400A082FVU4" blocksize="512" blockcount="7814037168"
      size="3.63 TB" expander1linkspeed="6.0 Gb" expander2linkspeed="6.0 Gb"
      sasaddress1="5000039548e05956" sasaddress2="5000039548e05957"

```

```

    ownership="server1" health="good" dn="sys/chassis-1/storage/disk-23"/>
  </outConfig>
</configResolveDn>

```

### Assigning Physical Drives to Servers

Request:

```

<configConfMo cookie='0955691347/295e610a-3365-1533-8002-a35a6a1b0ff4'
  dn='sys/chassis-1/storage/zone-drive'>
<inConfig>
  <storageChassisDiskSlotZoneHelper
    dn='sys/chassis-1/storage/zone-drive' slotList="1,2,3"
    ownership="server2" adminState="trigger"/>
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/storage/zone-drive"
  cookie="0955692275/224d31b6-3265-1532-8002-a35a6a1b0ff4" response="yes">
  <outConfig>
    <storageChassisDiskSlotZoneHelper dn="sys/chassis-1/storage/zone-drive"
      adminState="triggered" status="modified"/>
  </outConfig>
</configConfMo>

```

### Unassigning Physical Drives

Request:

```

<configConfMo cookie='0955692275/224d31b6-3265-1532-8002-a35a6a1b0ff4'
  dn='sys/chassis-1/storage/zone-drive'>
<inConfig>
  <storageChassisDiskSlotZoneHelper
    dn='sys/chassis-1/storage/zone-drive' slotList="1,2,3"
    ownership="none" adminState="trigger"/>
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo cookie="0955692275/224d31b6-3265-1532-8002-a35a6a1b0ff4"
  response="yes" dn="sys/chassis-1/storage/zone-drive">
  <outConfig>
    <storageChassisDiskSlotZoneHelper
      dn="sys/chassis-1/storage/zone-drive"
      adminState="triggered" status="modified"/>
  </outConfig>
</configConfMo>

```

### Enabling or Disabling the 6G or 12G Mixed Mode Speed on SAS Expander

Request:

```

<configConfMo dn='sys/chassis-1/sas-expander-1'
  cookie="1484806041/908bfd4-6c46-166c-807c-67f2642a6ca4" inHierarchical="false" >
  <inConfig>
    <storageSasExpander dn='sys/chassis-1/sas-expander-1' mixed6G12GDriveSupport='Enabled'/>
  </inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn='sys/chassis-1/sas-expander-1'

```

```

cookie='1484806041/908bffd4-6c46-166c-807c-67f2642a6ca4' response="yes"
<outConfig>
  <storageSasExpander id="1" name="SASEXP1" currentFwVersion="04.08.01_B075"
    sasAddress="N/A" description="Storage controller - SAS Expander"
    mixed6G12GDriveSupport="Pending" status="modified" >
  </storageSasExpander>
</outConfig>
</configConfMo>

```

**Note**

To disable the 6G or 12G Mixed Mode Speed, use the "mixed6G12GDriveSupport=disabled" attribute in the command.

## Managing PID Catalog

The examples in this section show how to use the Cisco IMC XML API to retrieve and upload PID catalog. Each example shows the XML API request followed by the response from Cisco IMC.

This section includes the following examples:

- [Uploading PID Catalog, on page 11](#)
- [Activating PID Catalog on Server Node 1, on page 12](#)
- [Activating PID Catalog on Server Node 2, on page 12](#)
- [Viewing PID Catalog, on page 12](#)
- [Retrieving PID Catalog of CPUs, on page 13](#)
- [Retrieving PID Catalog of DIMMs, on page 13](#)
- [Retrieving PID Catalog of HDDs, on page 14](#)
- [Retrieving PID Catalog of PCI Adapters, on page 15](#)

### Uploading PID Catalog

Request:

```

<configConfMo cookie="1470041969/37207236-ff38-18ff-8003-4d32145daae4"
dn="sys/chassis-1/pid/upload-catalog" inHierarchical="false">
<inConfig>
  <uploadPIDCatalog protocol="tftp" remoteServer="10.104.236.99"
    remoteFile="latestpid.tar.gz" dn="sys/chassis-1/pid/upload-catalog"/>
  </inConfig>
</configConfMo>

```

TFTP used in the preceding example is the default protocol. You can also download the LDAP CA certificate using the other available protocols such as the FTP, SFTP, SCP and HTTP.

Response:

```

<configConfMo dn="sys/chassis-1/pid/upload-catalog"
cookie="1470041969/37207236-ff38-18ff-8003-4d32145daae4" response="yes">
<outConfig>
  <uploadPIDCatalog dn="sys/chassis-1/pid/upload-catalog" protocol="none" remoteServer=""
    remoteFile="" user="" pwd="" pidUploadStatus="Upload in Progress" status="modified" >
  </uploadPIDCatalog>
</outConfig>

```

```
</configConfMo>
```

## Activating PID Catalog on Server Node 1

Request:

```
<configConfMo cookie="1462971767/5e320cff-9032-1290-8009-b1f9cc1a3500"
  dn="sys/chassis-1/server-1/board/pid/activate-catalog" inHierarchical="false">
  <inConfig>
    <activatePIDCatalog adminState="trigger"
      dn="sys/chassis-1/server-1/board/pid/activate-catalog"/>
    </inConfig>
  </configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/server-1/board/pid/activate-catalog"
  cookie="1470739643/d6acc6cc-a139-19a1-8002-5a45145daae4" response="yes">
<outConfig>
  <activatePIDCatalog dn="sys/chassis-1/server-1/board/pid/activate-catalog"
    adminState="triggered" pidActivationStatus="Activation Successful" status="modified">
  </activatePIDCatalog>
</outConfig>
</configConfMo>
```

## Activating PID Catalog on Server Node 2

Request:

```
<configConfMo cookie="1462971767/5e320cff-9032-1290-8009-b1f9cc1a3500"
  dn="sys/chassis-1/server-2/board/pid/activate-catalog" inHierarchical="false">
  <inConfig>
    <activatePIDCatalog adminState="trigger"
      dn="sys/chassis-1/server-2/board/pid/activate-catalog"/>
    </inConfig>
  </configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/server-2/board/pid/activate-catalog"
  cookie="1470739643/d6acc6cc-a139-19a1-8002-5a45145daae4" response="yes">
<outConfig>
  <activatePIDCatalog dn="sys/chassis-1/server-2/board/pid/activate-catalog"
    adminState="triggered" pidActivationStatus="Activation Successful" status="modified">
  </activatePIDCatalog>
</outConfig>
</configConfMo>
```

## Viewing PID Catalog

Request:

```
<configResolveClass cookie="1473455878/95c48a0a-1a3c-1c1a-8003-be18652a6ca4"
  inHierarchical="false" classId="pidCatalog"/>
```

Response:

```
<configResolveClass cookie="1473455878/95c48a0a-1a3c-1c1a-8003-be18652a6ca4"
  response="yes" classId="pidCatalog">
  <outConfigs>
    <pidCatalog dn="sys/chassis-1/server-1/board/pid" name="Cisco
      Product Identifiers (PID)" version="2.0(13a)09"/>
    <pidCatalog dn="sys/chassis-1/server-2/board/pid" name="Cisco
      Product Identifiers (PID)" version="2.0(13a)09"/>
  </outConfigs>
</configResolveClass>
```

```
</outConfigs>
</configResolveClass>
```

## Retrieving PID Catalog of CPUs

Request:

```
<configResolveClass cookie='1282522267/f91bd068-8e72-1e72-8002-7e573e8f835c'
inHierarchical='false' classId='pidCatalogCpu' />
```

Response:

```
<configResolveClass cookie="1470739643/d6acc6cc-a139-19a1-8002-5a45145daae4"
response="yes" classId="pidCatalogCpu">
<outConfigs>
<pidCatalogCpu id="1" socketdesignation="CPU1" description="Intel (R)
Xeon(R) CPU E5-2620 v4 @ 2.10GHz/85W 8C/20MB Cache/DDR4 2133MHz"
pid="UCS-CPU-E52620E" model="Intel (R) Xeon (R) CPU E5-2620 v4 @ 2.10GHz"
signature="Type 0, Family 6, Model 79, Stepping 1" currentspeed="2100"
operState="Enabled" dn="sys/chassis-1/server-1/board/pid/pid-cpu-1" >
</pidCatalogCpu>
<pidCatalogCpu id="2" socketdesignation="CPU2" description="Intel (R)
Xeon(R) CPU E5-2620 v4 @ 2.10GHz/85W 8C/20MB Cache/DDR4 2133MHz"
pid="UCS-CPU-E52620E" model="Intel (R) Xeon (R) CPU E5-2620 v4 @ 2.10GHz"
signature="Type 0, Family 6, Model 79, Stepping 1" currentspeed="2100"
operState="Enabled" dn="sys/chassis-1/server-1/board/pid/pid-cpu-2" >
</pidCatalogCpu>
<pidCatalogCpu id="1" socketdesignation="CPU1" description="Intel (R)
Xeon(R) CPU E5-2695 v4 @ 2.10GHz/120W 18C/45MB Cache/DDR4 2400MHz"
pid="UCS-CPU-E52695E" model="Intel (R) Xeon (R) CPU E5-2695 v4 @ 2.10GHz"
signature="Type 0, Family 6, Model 79, Stepping 1" currentspeed="2100"
operState="Enabled" dn="sys/chassis-1/server-2/board/pid/pid-cpu-1" >
</pidCatalogCpu>
<pidCatalogCpu id="2" socketdesignation="CPU2" description="Intel (R)
Xeon(R) CPU E5-2695 v4 @ 2.10GHz/120W 18C/45MB Cache/DDR4 2400MHz"
pid="UCS-CPU-E52695E" model="Intel (R) Xeon (R) CPU E5-2695 v4 @ 2.10GHz"
signature="Type 0, Family 6, Model 79, Stepping 1" currentspeed="2100"
operState="Enabled" dn="sys/chassis-1/server-2/board/pid/pid-cpu-2" >
</pidCatalogCpu>
</outConfigs>
</configResolveClass>
```

## Retrieving PID Catalog of DIMMs

Request:

```
<configResolveClass cookie='1282522267/f91bd068-8e72-1e72-8002-7e573e8f835c'
inHierarchical='false' classId='pidCatalogDimm' />
```

Response:

```
<configResolveClass cookie="1470739643/d6acc6cc-a139-19a1-8002-5a45145daae4"
response="yes" classId="pidCatalogDimm">
<outConfigs>
</pidCatalogDimm>
<pidCatalogDimm name="DIMM_G2" description="32GB DDR4-2400-MHz RDIMM/PC4-19200/dual
rank/x4/1.2v"
pid="UCS-MR-1X322RV-A" mfgid="0xCE00" manufacturer="Samsung" serialnumber="02EB3481"
model="M393A4K40BB1-CRC" capacity="32768 MB" speed="2400" datawidth="64 bits"
operability="Operable" dn="sys/chassis-1/server-2/board/pid/pid-dimm-DIMM_G2" >
</pidCatalogDimm>
.
.
.
<pidCatalogDimm name="DIMM_G2" description="32GB DDR4-2400-MHz RDIMM/PC4-19200/dual
rank/x4/1.2v"
pid="UCS-MR-1X322RV-A" mfgid="0xCE00" manufacturer="Samsung" serialnumber="02EB33FD"
```

```

    model="M393A4K40BB1-CRC" capacity="32768 MB" speed="2400" datawidth="64 bits"
    operability="Operable" dn="sys/chassis-1/server-2/board/pid/pid-dimm-DIMM_G1" >
  </pidCatalogDimm>
  <pidCatalogDimm name="DIMM_G2" description="32GB DDR4-2400-MHz RDIMM/PC4-19200/dual
rank/x4/1.2v"
    pid="UCS-MR-1X322RV-A" mfgid="0xCE00" manufacturer="Samsung" serialnumber="02EB3481"
    model="M393A4K40BB1-CRC" capacity="32768 MB" speed="2400" datawidth="64 bits"
    operability="Operable" dn="sys/chassis-1/server-2/board/pid/pid-dimm-DIMM_G2" >
  </pidCatalogDimm>
</outConfigs>
</configResolveClass>

```

## Retrieving PID Catalog of HDDs

Request:

```

<configResolveClass cookie='1282522267/f91bd068-8e72-1e72-8002-7e573e8f835c'
inHierarchical='false' classId='pidCatalogHdd' />

```

Response:

```

<configResolveClass cookie="1470739643/d6acc6cc-a139-19a1-8002-5a45145daae4"
response="yes" classId="pidCatalogHdd">
<outConfigs>
  <pidCatalogHdd disk="8" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="WD" model="WD4001FYYG-01SL3"
    serialnumber="WMC1F1927555" dn="sys/chassis-1/server-1/board/pid/pid-hdd-8" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="9" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="WD" model="WD4001FYYG-01SL3"
    serialnumber="WMC1F1930050" dn="sys/chassis-1/server-1/board/pid/pid-hdd-9" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="6" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="WD" model="WD4001FYYG-01SL3"
    serialnumber="WMC1F1927672" dn="sys/chassis-1/server-2/board/pid/pid-hdd-6" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="7" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="WD" model="WD4001FYYG-01SL3" serialnumber="WMC1F1928331"
    dn="sys/chassis-1/server-2/board/pid/pid-hdd-7" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="10" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="WD" model="WD4001FYYG-01SL3" serialnumber="WMC1F1928305"
    dn="sys/chassis-1/server-2/board/pid/pid-hdd-10" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="11" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="TOSHIBA" model="MG03SCA400" serialnumber="14P0A0E8FVU4"
    dn="sys/chassis-1/server-2/board/pid/pid-hdd-11" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="12" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="TOSHIBA" model="MG03SCA400" serialnumber="14P0A069FVU4"
    dn="sys/chassis-1/server-2/board/pid/pid-hdd-12" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="13" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="TOSHIBA" model="MG03SCA400" serialnumber="14P0A07BFVU4"
    dn="sys/chassis-1/server-2/board/pid/pid-hdd-13" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="14" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="TOSHIBA" model="MG03SCA400" serialnumber="1400A06EFVU4"
    dn="sys/chassis-1/server-2/board/pid/pid-hdd-14" >
  </pidCatalogHdd>
  <pidCatalogHdd disk="28" controller="SBMezz1" description="4TB 6Gb SAS 7.2K RPM 3.5"
    pid="UCSC-C3X60-HD4TB" vendor="TOSHIBA" model="MG03SCA400" serialnumber="1400A08MFVU4"
    dn="sys/chassis-1/server-2/board/pid/pid-hdd-28" >
  </pidCatalogHdd>
</outConfigs>
</configResolveClass>

```

## Retrieving PID Catalog of PCI Adapters

Request:

```
<configResolveClass cookie='1282522267/f91bd068-8e72-1e72-8002-7e573e8f835c'
inHierarchical='false' classId='pidCatalogPCIAdapter' />
```

Response:

```
<configResolveClass cookie="1470739643/d6acc6cc-a139-19a1-8002-5a45145daae4"
response="yes" classId="pidCatalogPCIAdapter">
<outConfigs>
  <pidCatalogPCIAdapter slot="SBNVMe1" description="800GB 2.5in NVMe based
  PCIe SSD drive" pid="UCSC-C3K-NV8" vendor="0x1c58" device="0x0003" subvendor="0x1137"
  subdevice="0x019e" dn="sys/chassis-1/server-1/board/pid/pid-pciadapter-SBNVMe1" >
  </pidCatalogPCIAdapter>
  <pidCatalogPCIAdapter slot="SIOC1" description="Cisco UCS 40Gb Ethernet"
  pid="UCSC-C3260-SIOC" vendor="0x1137" device="0x0042" subvendor="0x1137"
  subdevice="0x0157" dn="sys/chassis-1/server-1/board/pid/pid-pciadapter-SIOC1" >
  </pidCatalogPCIAdapter>
  <pidCatalogPCIAdapter slot="SBMezz1" description="Cisco UCS C3000 RAID controller
  for M4 Server Blade with 4G RAID Cache" pid="UCS-C3K-M4RAID" vendor="0x1000"
  device="0x00ce" subvendor="0x1137" subdevice="0x0197"
  dn="sys/chassis-1/server-1/board/pid/pid-pciadapter-SBMezz1" >
  </pidCatalogPCIAdapter>
  <pidCatalogPCIAdapter slot="SIOC2" description="Cisco UCS 40Gb Ethernet" pid="N/A"
  vendor="0x1137" device="0x0042" subvendor="0x1137" subdevice="0x0157"
  dn="sys/chassis-1/server-2/board/pid/pid-pciadapter-SIOC2" >
  </pidCatalogPCIAdapter>
  <pidCatalogPCIAdapter slot="SBMezz1" description="Cisco UCS C3000 RAID controller
  for M4 Server Blade with 4G RAID Cache" pid="UCSC-C3K-M4RAID" vendor="0x1000"
  device="0x00ce" subvendor="0x1137" subdevice="0x0197"
  dn="sys/chassis-1/server-2/board/pid/pid-pciadapter-SBMezz1" >
  </pidCatalogPCIAdapter>
</outConfigs>
</configResolveClass>
```

