



# Managing the Server

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## Managing Host Power

The examples in this section show how to use the Cisco IMC XML API to manage host power. Each example shows the XML API request followed by the response from Cisco IMC.

This section includes the following examples:

- [Powering On the Server, on page 1](#)
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- [Power Cycling the Server, on page 2](#)

### Powering On the Server

Request:

```
<configConfMo cookie='1418463333/5d69498a-160a-1a16-8002-91fabb1b0ff4'  
  dn='sys/chassis-1/server-1'><inConfig><computeServerNode  
    dn='sys/chassis-1/server-1' adminPower='up' />  
</inConfig>  
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/server-1"  
cookie="1418463333/5d69498a-160a-1a16-8002-91fabb1b0ff4"  
response="yes">  
<outConfig>  
  <computeServerNode serverId="1" adminPower="policy" availableMemory="262144"  
    model="UCSC-C3X60-SVRNB" memorySpeed="1866" name="UCS C3160" numOfCores="24"  
    numOfCoresEnabled="24" numOfCpus="2" numOfThreads="48" operPower="on"
```

```

        originalUuid="1C0C4600-671D-4B53-A06E-590CD0FEBC85" presence="equipped"
        serial="FCH1821JAV4" totalMemory="262144" usrLbl=""
    uuid="1C0C4600-671D-4B53-A06E-590CD0FEBC85"
        vendor="Cisco Systems Inc" dn="sys/chassis-1/server-1" status="modified"/>
</outConfig>
</configConfMo>

```

### Powering Off the Server

Request:

```

<configConfMo cookie='1418463333/5d69498a-160a-1a16-8002-91fabb1b0ff4'
  dn='sys/chassis-1/server-1'><inConfig><computeServerNode
  dn='sys/chassis-1/server-1' adminPower='down' />
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-1"
  cookie="1418463333/5d69498a-160a-1a16-8002-91fabb1b0ff4"
  response="yes">
  <outConfig>
    <computeServerNode serverId="1" adminPower="policy" availableMemory="262144"
    model="UCSC-C3X60-SVRNB" memorySpeed="1866" name="UCS C3160" numOfCores="24"
    numOfCoresEnabled="24" numOfCpus="2" numOfThreads="48" operPower="off"
    originalUuid="1C0C4600-671D-4B53-A06E-590CD0FEBC85" presence="equipped"
    serial="FCH1821JAV4" totalMemory="262144" usrLbl=""
  uuid="1C0C4600-671D-4B53-A06E-590CD0FEBC85"
    vendor="Cisco Systems Inc" dn="sys/chassis-1/server-1" status="modified"/>
  </outConfig>
</configConfMo>

```

### Power Cycling the Server

Request:

```

<configConfMo cookie='1418463333/5d69498a-160a-1a16-8002-91fabb1b0ff4'
  dn='sys/chassis-1/server-1'><inConfig><computeServerNode dn='sys/chassis-1/server-1'
  adminPower='cycle-immediate' /></inConfig></configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-1"
  cookie="1418463333/5d69498a-160a-1a16-8002-91fabb1b0ff4"
  response="yes">
  <outConfig>
    <computeServerNode serverId="1" adminPower="policy" availableMemory="262144"
    model="UCSC-C3X60-SVRNB" memorySpeed="1866" name="UCS C3160" numOfCores="24"
    numOfCoresEnabled="24" numOfCpus="2" numOfThreads="48" operPower="off"
    originalUuid="1C0C4600-671D-4B53-A06E-590CD0FEBC85" presence="equipped"
    serial="FCH1821JAV4"
    totalMemory="262144" usrLbl="" uuid="1C0C4600-671D-4B53-A06E-590CD0FEBC85"
    vendor="Cisco Systems Inc" dn="sys/chassis-1/server-1" status="modified"/>
  </outConfig>
</configConfMo>

```

## Power Management

The examples in this section show how to use the Cisco IMC XML API to retrieve and perform power management 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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- [Enabling Power Capping and Setting Chassis Budget](#), on page 3
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### Disabling Power Capping

Request:

```
<configConfMo cookie='1472715713/d2304f05-6e3b-1b6e-8002-ddf0c322e470'
dn='sys/chassis-1/budget'>
<inConfig>
  <chassisPowerBudget dn='sys/chassis-1/budget' adminState='disabled' />
</inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/budget"
cookie="1472715713/d2304f05-6e3b-1b6e-8002-ddf0c322e470"
response="yes">
<outConfig>
  <chassisPowerBudget dn="sys/chassis-1/budget" adminState="disabled" minPower="712"
    maxPower="1023" budget="1023" capBudget="551" powerCharStatus="Completed successfully"
    autoMinBudget="901" adminAction="no-op" status="modified" >
  </chassisPowerBudget>
</outConfig>
</configConfMo>
```

### Enabling Power Capping and Setting Chassis Budget

Request:

```
<configConfMo cookie='1472715713/d2304f05-6e3b-1b6e-8002-ddf0c322e470'
dn='sys/chassis-1/budget'>
<inConfig>
  <chassisPowerBudget dn='sys/chassis-1/budget' adminState='enabled' budget='900' />
</inConfig></configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/budget"
cookie="1472715713/d2304f05-6e3b-1b6e-8002-ddf0c322e470"
response="yes">
<outConfig>
  <chassisPowerBudget dn="sys/chassis-1/budget" adminState="enabled" minPower="712"
    maxPower="1023" budget="900" capBudget="551" powerCharStatus="Completed successfully"
    autoMinBudget="901" adminAction="no-op" status="modified" >
  </chassisPowerBudget>
</outConfig>
</configConfMo>
```

## Running Power Characterization

Request:

```
<configConfMo cookie='1452562357/3e4c4620-1929-1919-800f-00f8c322e470'
dn='sys/chassis-1/budget'>
<inConfig>
  <chassisPowerBudget dn='sys/chassis-1/budget' adminAction='start-power-char'
    status='modified'/>
</inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/budget"
cookie="1452562357/3e4c4620-1929-1919-800f-00f8c322e470"
response="yes">
<outConfig>
  <chassisPowerBudget dn="sys/chassis-1/budget" adminState="disabled" minPower="421"
    maxPower="421" budget="421" capBudget="-1" runPowCharAtBoot="yes"
    powerCharStatus="Completed successfully" adminAction="no-op" status="modified" >
  </chassisPowerBudget>
</outConfig>
</configConfMo>
```

## Resetting Power Profiles to Default

Request:

```
<configConfMo cookie='1452562357/3e4c4620-1929-1919-800f-00f8c322e470'
dn='sys/chassis-1/budget'>
<inConfig>
  <chassisPowerBudget dn='sys/chassis-1/budget'
    adminAction='reset-power-profile-default' status='modified'/>
</inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/budget"
cookie="1453845128/57ec2969-442a-1a44-8003-6b47145daae4"
response="yes">
<outConfig>
  <chassisPowerBudget dn="sys/chassis-1/budget" adminState="enabled" minPower="N/A"
    maxPower="N/A" budget="N/A" capBudget="N/A" runPowCharAtBoot="yes"
    powerCharStatus="Running" adminAction="no-op" status="modified">
  </chassisPowerBudget>
</outConfig>
</configConfMo>
```

## Retrieving Global Power Capping Details

Request:

```
<configResolveDn cookie='1453596884/fd2963e6-092a-1a09-8009-6b47145daae4'
inHierarchical='false' dn='sys/chassis-1/budget'/>
```

Response:

```
<configResolveDn cookie="1472719025/9c73f130-6e3b-1b6e-8003-ddf0c322e470"
  response="yes" dn="sys/chassis-1/budget">
<outConfig>
<chassisPowerBudget dn="sys/chassis-1/budget" adminState="enabled" minPower="712"
  maxPower="1023" budget="900" capBudget="435" powerCharStatus="Completed successfully"
  autoMinBudget="901" adminAction="no-op" >
  </chassisPowerBudget>
</outConfig>
</configResolveDn>
```

## Enabling Custom Profiles

Request:

```
<configConfMo cookie='1452505509/a4e30f9d-0c29-190c-8008-00f8c322e470'
dn='sys/chassis-1/server-1/budget/cust-prof'>
  <inConfig>
    <customPowerProfile dn='sys/chassis-1/server-1/budget/cust-prof' profileEnabled='yes'
      allowThrottle='yes' suspendPeriod='10:30-22:30|Mo,Tu' corrAction='alert' corrTime='3'
      powerLimit='250'/>
  </inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/server-1/budget/cust-prof"
cookie="1452505509/a4e30f9d-0c29-190c-8008-00f8c322e470" response="yes">
<outConfig>
<customPowerProfile dn="sys/chassis-1/server-1/budget/cust-prof"
  profileType="custom" profileEnabled="yes" allowThrottle="yes" powerLimit="250"
  suspendPeriod="10:30-22:30|Mo,Tu" corrAction="alert" corrTime="3" status="modified" >
</customPowerProfile>
</outConfig>
</configConfMo>
```

## Retrieving Custom Profile Details

Request:

```
<configResolveClass cookie='1452506619/f5fd0476-0c29-190c-8009-00f8c322e470'
inHierarchical='true' classId='customPowerProfile'/>
```

Response:

```
<configResolveClass cookie="1452506619/f5fd0476-0c29-190c-8009-00f8c322e470"
response="yes" classId="customPowerProfile">
<customPowerProfile dn="sys/chassis-1/server-1/budget/cust-prof" profileType="custom"
  profileEnabled="yes" allowThrottle="yes" powerLimit="250" suspendPeriod="10:30-22:30|Mo,Tu"
  corrAction="alert" corrTime="3" >
</customPowerProfile>
</outConfigs>
</configResolveClass>
```

## Disabling Custom Profile

Request:

```
<configConfMo cookie='1452505509/a4e30f9d-0c29-190c-8008-00f8c322e470'
dn='sys/chassis-1/server-1/budget/cust-prof'>
<inConfig>
  <customPowerProfile dn='sys/chassis-1/server-1/budget/cust-prof' profileEnabled='no' />
</inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/server-1/budget/cust-prof"
cookie="1452505509/a4e30f9d-0c29-190c-8008-00f8c322e470" response="yes">
<outConfig>
<customPowerProfile dn="sys/chassis-1/server-1/budget/cust-prof" profileType="custom"
profileEnabled="no" allowThrottle="yes" powerLimit="250" suspendPeriod="10:30-22:30|Mo,Tu"
corrAction="alert" corrTime="3" status="modified" >
</customPowerProfile>
</outConfig>
</configConfMo>
```

## Enabling Auto-Balance Profile with Priority Type Dynamic

Request:

```
<configConfMo cookie='1453492545/55992822-f229-19f2-8003-6b47145daae4'
dn='sys/chassis-1/budget/auto-prof'>
<inConfig>
<autoPowerProfile dn='sys/chassis-1/budget/auto-prof' profileEnabled='yes'
priority='dynamic' allowThrottle='yes' corrAction='alert' corrTime='1'
suspendPeriod='10:30-22:30|Mo,Tu' />
</inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/budget/auto-prof"
cookie="1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470" response="yes">
<outConfig>
<autoPowerProfile dn="sys/chassis-1/budget/auto-prof" profileType="auto_balance"
profileEnabled="yes" priority="dynamic" priorServerId="1" powerLimitServer1="223"
powerLimitServer2="1163" allowThrottle="yes" suspendPeriod="10:30-22:30|Mo,Tu"
corrAction="alert" corrTime="1" status="modified" >
</autoPowerProfile>
</outConfig>
</configConfMo>
```

## Enabling Auto-Balance Profile with Priority Type Manual

Request:

```
<configConfMo cookie='1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470'
dn='sys/chassis-1/budget/auto-prof'>
<inConfig>
<autoPowerProfile dn='sys/chassis-1/budget/auto-prof' profileEnabled='yes'
priority='manual' priorServerId='2' allowThrottle='yes' corrAction='alert'
corrTime='1' suspendPeriod='10:30-22:30|Mo,Tu' />
</inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/budget/auto-prof"
cookie="1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470" response="yes">
<outConfig>
<autoPowerProfile dn="sys/chassis-1/budget/auto-prof" profileType="auto_balance"
```

```

profileEnabled="yes" priority="manual" priorServerId="2" powerLimitServer1="201"
powerLimitServer2="329" allowThrottle="yes" suspendPeriod="10:30-22:30|Mo,Tu"
corrAction="alert" corrTime="1" status="modified" >
</autoPowerProfile>
</outConfig>
</configConfMo>

```

### Disabling Auto-Balance Profile

Request:

```

<configConfMo cookie='1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470'
dn='sys/chassis-1/budget/auto-prof'>
<inConfig>
<autoPowerProfile dn='sys/chassis-1/budget/auto-prof' profileEnabled='no' />
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/budget/auto-prof"
cookie="1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470" response="yes">
<outConfig>
<autoPowerProfile dn="sys/chassis-1/budget/auto-prof" profileType="auto_balance"
profileEnabled="no" priority="manual" priorServerId="2" powerLimitServer1="201"
powerLimitServer2="329" allowThrottle="yes" suspendPeriod="10:30-22:30|Mo,Tu"
corrAction="alert" corrTime="1" status="modified" >
</autoPowerProfile>
</outConfig>
</configConfMo>

```

### Enabling Thermal Profile

Request:

```

<configConfMo cookie='1452550587/731da901-1729-1917-800b-00f8c322e470'
dn='sys/chassis-1/server-2/budget/thermal-prof'>
<inConfig>
<thermalPowerProfile dn='sys/chassis-1/server-2/budget/thermal-prof'
profileEnabled='yes' temperature='25' />
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-2/budget/thermal-prof"
cookie="1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470" response="yes">
<outConfig>
<thermalPowerProfile dn="sys/chassis-1/server-2/budget/thermal-prof"
profileType="thermal" profileEnabled="yes" temperature="25" powerLimit="150"
status="modified" >
</thermalPowerProfile>
</outConfig>
</configConfMo>

```

### Disabling Thermal Profile

Request:

```

<configConfMo cookie='1452550587/731da901-1729-1917-800b-00f8c322e470'
dn='sys/chassis-1/server-2/budget/thermal-prof'>
<inConfig>
<thermalPowerProfile dn='sys/chassis-1/server-2/budget/thermal-prof'
profileEnabled='no' />
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-2/budget/thermal-prof"
cookie="1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470" response="yes">

```

```
<outConfig>
  <thermalPowerProfile dn="sys/chassis-1/server-2/budget/thermal-prof"
    profileType="thermal" profileEnabled="no" temperature="40" powerLimit="150"
    status="modified" >
  </thermalPowerProfile>
</outConfig>
</configConfMo>
```

### Retrieving the CPU Power Utilization for Server Nodes

Request:

```
<configResolveClass cookie='1453435371/7a33a835-e529-19e5-8002-00f8c322e470'
inHierarchical='true' classId='serverUtilization' />
```

Response:

```
<configResolveClass cookie="1472719802/6298eaac-6e3b-1b6e-8005-ddf0c322e470"
response="yes" classId="serverUtilization">
<outConfigs>
<serverUtilization dn="sys/chassis-1/server-1/utilization" overallUtilization="0"
cpuUtilization="0" memoryUtilization="0" ioUtilization="0" >
  </serverUtilization>
<serverUtilization dn="sys/chassis-1/server-2/utilization" overallUtilization="96"
  cpuUtilization="100" memoryUtilization="4" ioUtilization="0" >
  </serverUtilization></outConfigs>
</configResolveClass>
```

### Retrieving Power Monitoring Details of Chassis and Server Nodes

Request:

```
<configResolveClass cookie='1453489912/722ed3e2-f129-19f1-8002-6b47145daae4'
inHierarchical='true' classId='powerMonitor' />
```

Response:

```
<configResolveClass cookie="1453489912/722ed3e2-f129-19f1-8002-6b47145daae4"
response="yes" classId="powerMonitor">
<outConfigs>
  <powerMonitor domain="Platform" current="220" minimum="90" maximum="342" average="184"
    period="0days 1:58:1" dn="sys/chassis-1/server-1/pwrmonitor-Platform" >
  </powerMonitor>
  <powerMonitor domain="CPU" current="158" minimum="46" maximum="259" average="127"
    period="0days 1:58:1" dn="sys/chassis-1/server-1/pwrmonitor-CPU" >
  </powerMonitor>
  <powerMonitor domain="Memory" current="18" minimum="8" maximum="33" average="15"
    period="0days 1:58:1" dn="sys/chassis-1/server-1/pwrmonitor-Memory" >
  </powerMonitor><powerMonitor domain="Platform" current="132" minimum="96" maximum="366"
    average="118" period="0days 1:58:3" dn="sys/chassis-1/server-2/pwrmonitor-Platform" >
  </powerMonitor><powerMonitor domain="CPU" current="74" minimum="42" maximum="251" average="62"
    period="0days 1:58:3" dn="sys/chassis-1/server-2/pwrmonitor-CPU" >
  </powerMonitor>
  <powerMonitor domain="Memory" current="22" minimum="16" maximum="64" average="20"
    period="0days 1:58:3" dn="sys/chassis-1/server-2/pwrmonitor-Memory" >
  </powerMonitor>
</outConfigs>
</configResolveClass>
```

### Retrieving Chassis Power Budget Details

Request:

```
<configResolveClass cookie='1453489912/722ed3e2-f129-19f1-8002-6b47145daae4'
inHierarchical='true' classId='chassisPowerBudget' />
```

Response:

```
<configResolveClass cookie="1453489912/722ed3e2-f129-19f1-8002-6b47145daae4"
response="yes" classId="chassisPowerBudget">
```



```

<outConfigs>
<chassisPowerBudget dn="sys/chassis-1/budget" adminState="enabled" minPower="888"
maxPower="1361" budget="1200" capBudget="740" runPowCharAtBoot="yes"
powerCharStatus="Completed successfully" adminAction="no-op" >
<autoPowerProfile rn="auto-prof" profileType="auto_balance" profileEnabled="no"
priority="manual" priorServerId="1" powerLimitServer1="499" powerLimitServer2="415"
allowThrottle="no" suspendPeriod="" corrAction="none" corrTime="1" >
</autoPowerProfile>
</chassisPowerBudget></outConfigs>
</configResolveClass>

```

## Managing Boot Order

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

This section includes the following examples:

- [Retrieving Precision Boot Order Information, on page 9](#)
- [Retrieving Boot Order Table Information \(Server 1\), on page 10](#)
- [Retrieving Boot Order Table Information \(Server 2\), on page 10](#)
- [Retrieving Actual Boot Order Information \(Server 1 and Server 2\), on page 11](#)
- [Retrieving Actual Boot Order Information using DN, on page 11](#)
- [Retrieving BIOS Boot Mode Information using DN, on page 12](#)
- [Configuring Legacy to UEFI Boot Mode, on page 12](#)
- [Retrieving UEFI Secure Boot Information, on page 12](#)
- [Enabling UEFI Secure Boot \(Server 2\), on page 13](#)

### Retrieving Precision Boot Order Information

Request:

```

<configResolveClass cookie="1256524707/a7d534e9-cd76-16cd-8014-aaec921b0ff4"
inHierarchical="true" classId="lsbootDevPrecision"/>

```

Response:

```

<configResolveClass cookie="1256524707/a7d534e9-cd76-16cd-8014-aaec921b0ff4" response="yes"
classId="lsbootDevPrecision">
<outConfigs>
<lsbootDevPrecision dn="sys/chassis-1/server-1/boot-precision" name="boot-precision"
purpose="operational" rebootOnUpdate="no" reapply="no" configuredBootMoe="None"
lastConfiguredBootOrderSource="CIMC"/>
<lsbootDevPrecision dn="sys/chassis-1/server-2/boot-precision" name="boot-precision"
purpose="operational" rebootOnUpdate="no" reapply="no" configuredBootMode="Uefi"
lastConfiguredBootOrderSource="CIMC">
<lsbootVMedia name="VMEDIA-KVMFDD" type="VMEDIA" subtype="kvm-mapped-fdd"
access="read-write-drive" order="1" state="Disabled" rn="vm-VMEDIA-KVMFDD"/>
<lsbootVMedia name="VMEDIA-1" type="VMEDIA" subtype="kvm-mapped-dvd"
access="read-only-local" order="8" state="Disabled" rn="vm-VMEDIA-1"/>
.
.
<lsbootPchStorage name="TEST-PCH" type="PCHSTORAGE" lun="3" order="12" state="Disabled"
rn="pchstorage-TEST-PCH"/>
<lsbootUefiShell name="EFI0-1" type="UEFISHELL" order="13" state="Disabled"
rn="uefishell-EFI0-1"/>

```

```

    </lsbootDevPrecision>
  </outConfigs>
</configResolveClass>

```

### Retrieving Boot Order Table Information (Server 1)

Request:

```

<configResolveDn cookie="1256527817/b46e308c-ce76-16ce-8003-aaec921b0ff4"
dn='sys/chassis-1/server-1/bios/bdgep' inHierarchical="true"/>

```

Response:

```

<configResolveDn cookie="1256527817/b46e308c-ce76-16ce-8003-aaec921b0ff4"
response="yes" dn="sys/chassis-1/server-1/bios/bdgep">
  <outConfig>
    <biosBOT dn="sys/chassis-1/server-1/bios/bdgep">
      <biosBootMode rn="boot-mode" actualBootMode="Legacy"/>
      <biosBootDevPrecision descr="Cisco vKVM-Mapped vDVD1.22"
order="1" name="CDROM" type="VMEDIA" subtype="kvm-mapped-dvd" rn="bdvp-1"/>
      <biosBootDevPrecision descr="Cisco CIMC-Mapped vDVD1.22"
order="2" name="CDROM" type="VMEDIA" subtype="cimc-mapped-dvd" rn="bdvp-2"/>
      <biosBootDevPrecision descr="UEFI: Built-in EFI Shell "
order="3" name="NonPolicyTarget" type="EFI" rn="bdvp-3"/>
      <biosBootDevPrecision descr="(Bus 04 Dev 00) PCI RAID Adapter"
order="4" name="NonPolicyTarget" type="HDD" slot="M" rn="bdvp-4"/>
      <biosBootDevPrecision descr="Cisco vKVM-Mapped vHDD1.22"
order="5" name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-hdd" rn="bdvp-5"/>

      <biosBootDevPrecision descr="Cisco vKVM-Mapped vFDD1.22"
order="6" name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-fdd" rn="bdvp-6"/>

      <biosBootDevPrecision descr="Cisco CIMC-Mapped vHDD1.22"
order="7" name="NonPolicyTarget" type="VMEDIA" subtype="cimc-mapped-hdd" rn="bdvp-7"/>
    </biosBOT>
  </outConfig>
</configResolveDn>

```

### Retrieving Boot Order Table Information (Server 2)

Request:

```

<configResolveDn cookie="1256527817/b46e308c-ce76-16ce-8003-aaec921b0ff4"
dn='sys/chassis-1/server-2/bios/bdgep' inHierarchical="true"/>

```

Response:

```

<configResolveDn cookie="1256527817/b46e308c-ce76-16ce-8003-aaec921b0ff4"
response="yes" dn="sys/chassis-1/server-2/bios/bdgep">
  <outConfig>
    <biosBOT dn="sys/chassis-1/server-2/bios/bdgep">
      <biosBootMode rn="boot-mode" actualBootMode="Uefi"/>
      <biosBootDevPrecision descr="UEFI: Cisco vKVM-Mapped vDVD1.22"
order="1" name="CDROM" type="EFI" rn="bdvp-1"/>
      <biosBootDevPrecision descr="UEFI: Built-in EFI Shell "
order="2" name="NonPolicyTarget" type="EFI" rn="bdvp-2"/>
      <biosBootDevPrecision descr="Cisco vKVM-Mapped vDVD1.22"
order="3" name="NonPolicyTarget" type="VMEDIA"
subtype="kvm-mapped-dvd" rn="bdvp-3"/>
      <biosBootDevPrecision descr="Cisco vKVM-Mapped vHDD1.22"
order="4" name="NonPolicyTarget" type="VMEDIA"
subtype="kvm-mapped-hdd" rn="bdvp-4"/>
      <biosBootDevPrecision descr="Cisco vKVM-Mapped vFDD1.22"
order="5" name="NonPolicyTarget" type="VMEDIA"
subtype="kvm-mapped-fdd" rn="bdvp-5"/>
      <biosBootDevPrecision descr="Cisco CIMC-Mapped vDVD1.22"
order="6" name="NonPolicyTarget" type="VMEDIA"
subtype="cimc-mapped-dvd" rn="bdvp-6"/>
    </biosBOT>
  </outConfig>
</configResolveDn>

```

```

        <biosBootDevPrecision descr="Cisco CIMC-Mapped vHDD1.22"
        order="7" name="NonPolicyTarget" type="VMEDIA"
        subtype="cimc-mapped-hdd" rn="bdvp-7"/>
    </biosBOT>
</outConfig>
</configResolveDn>

```

## Retrieving Actual Boot Order Information (Server 1 and Server 2)

Request:

```

<configResolveClass cookie="1256525715/b603f647-ce76-16ce-8015-aaec921b0ff4"
inHierarchical="true" classId="biosBootDevPrecision"/>

```

Response:

```

<configResolveClass cookie="1256525715/b603f647-ce76-16ce-8015-aaec921b0ff4" res
ponse="yes" classId="biosBootDevPrecision">
  <outConfigs>
    <biosBootDevPrecision descr="Cisco vKVM-Mapped vDVD1.22" order="1"
    name="CDROM" type="VMEDIA" subtype="kvm-mapped-dvd"
    dn="sys/chassis-1/server-1/bios/bdgp/bdvp-1"/> <biosBootDevPrecision
    descr="Cisco CIMC-Mapped vDVD1.22" order="2"
    name="CDROM" type="VMEDIA" subtype="cimc-mapped-dvd"
    dn="sys/chassis-1/server-1/bios/bdgp/bdvp-2"/>
    <biosBootDevPrecision descr="UEFI: Built-in EFI Shell " order="3"
    name="NonPolicyTarget" type="EFI" dn="sys/chassis-1/server-1/bios/bdgp/bdvp-3"/>
    <biosBootDevPrecision descr="(Bus 04 Dev 00) PCI RAID Adapter" order="4"
    name="NonPolicyTarget" type="HDD" slot="M" dn="sys/chassis-1/server-1/bios/bdgp/bdvp-4"/>

    <biosBootDevPrecision descr="Cisco vKVM-Mapped vHDD1.22" order="5"
    name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-hdd"
    dn="sys/chassis-1/server-1/bios/bdgp/bdvp-5"/>
    <biosBootDevPrecision descr="Cisco vKVM-Mapped vFDD1.22" order="6"
    name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-fdd"
    dn="sys/chassis-1/server-1/bios/bdgp/bdvp-6"/>
    <biosBootDevPrecision descr="Cisco CIMC-Mapped vHDD1.22" order="7"
    name="NonPolicyTarget" type="VMEDIA" subtype="cimc-mapped-hdd"
    dn="sys/chassis-1/server-1/bios/bdgp/bdvp-7"/>

    <biosBootDevPrecision descr="UEFI: Cisco vKVM-Mapped vDVD1.22" order="1"
    name="CDROM" type="EFI" dn="sys/chassis-1/server-2/bios/bdgp/bdvp-1"/>
    <biosBootDevPrecision descr="UEFI: Built-in EFI Shell " order="2"
    name="NonPolicyTarget" type="EFI" dn="sys/chassis-1/server-2/bios/bdgp/bdvp-2"/>
    <biosBootDevPrecision descr="Cisco vKVM-Mapped vDVD1.22" order="3"
    name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-dvd"
    dn="sys/chassis-1/server-2/bios/bdgp/bdvp-3"/>
    <biosBootDevPrecision descr="Cisco vKVM-Mapped vHDD1.22" order="4"
    name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-hdd"
    dn="sys/chassis-1/server-2/bios/bdgp/bdvp-4"/>
    <biosBootDevPrecision descr="Cisco vKVM-Mapped vFDD1.22" order="5"
    name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-fdd"
    dn="sys/chassis-1/server-2/bios/bdgp/bdvp-5"/>
    <biosBootDevPrecision descr="Cisco CIMC-Mapped vDVD1.22" order="6"
    name="NonPolicyTarget" type="VMEDIA" subtype="cimc-mapped-dvd"
    dn="sys/chassis-1/server-2/bios/bdgp/bdvp-6"/>
    <biosBootDevPrecision descr="Cisco CIMC-Mapped vHDD1.22"
    order="7" name="NonPolicyTarget" type="VMEDIA" subtype="cimc-mapped-hdd"
    dn="sys/chassis-1/server-2/bios/bdgp/bdvp-7"/>
  </outConfigs>
</configResolveClass>

```

## Retrieving Actual Boot Order Information using DN

Request:

```

<configResolveDn cookie="1256525715/b603f647-ce76-16ce-8015-aaec921b0ff4"
dn='sys/chassis-1/server-2/bios/bdgp/bdvp-5' inHierarchical="false"/>

```

Response:

```
<configResolveDn cookie="1256525715/b603f647-ce76-16ce-8015-aaec921b0ff4"
response="yes" dn="sys/chassis-1/server-2/bios/bdgep/bdvp-5">
  <outConfig>
    <biosBootDevPrecision descr="Cisco vKVM-Mapped vFDD1.22" order="5"
      name="NonPolicyTarget" type="VMEDIA" subtype="kvm-mapped-fdd"
      dn="sys/chassis-1/server-2/bios/bdgep/bdvp-5"/>
    </outConfig>
  </configResolveDn>
```

### Retrieving BIOS Boot Mode Information using DN

Request:

```
<configResolveDn cookie="1256526667/3bbac6ee-cd76-16cd-8002-aaec921b0ff4"
dn='sys/chassis-1/server-1/bios/bdgep/boot-mode' inHierarchical="true"/>
```

Response:

```
<configResolveDn cookie="1256526667/3bbac6ee-cd76-16cd-8002-aaec921b0ff4"
response="yes" dn="sys/chassis-1/server-1/bios/bdgep/boot-mode">
  <outConfig>
    <biosBootMode dn="sys/chassis-1/server-1/bios/bdgep/boot-mode"
      actualBootMode="Legacy"/>
    </outConfig>
  </configResolveDn>
```

### Configuring Legacy to UEFI Boot Mode

Request:

```
<configConfMo cookie='1256586379/e30f586c-dc76-16dc-8008-aaec921b0ff4'
dn='sys/chassis-1/server-2/boot-precision'><inConfig><lsbootDevPrecision
configuredBootMode='Uefi' /></inConfig></configConfMo>
```

Response:

```
<configConfMo dn="sys/chassis-1/server-2/boot-precision"
cookie="1256586379/e30f586c-dc76-16dc-8008-aaec921b0ff4" response="yes">
  <outConfig>
    <lsbootDevPrecision dn="sys/chassis-1/server-2/boot-precision"
      name="boot-precision" purpose="operational" rebootOnUpdate="no"
      reapply="no" configuredBootMode="Uefi" lastConfiguredBootOrderSource="CIMC"
      status="modified"/>
    </outConfig>
  </configConfMo>
```

### Retrieving UEFI Secure Boot Information

Request:

```
<configResolveClass cookie="1256580961/3d850c6c-db76-16db-8006-aaec921b0ff4"
inHierarchical="false" classId="lsbootBootSecurity"/>
```

Response:

```
<configResolveClass cookie="1256580961/3d850c6c-db76-16db-8006-aaec921b0ff4" response="yes"
  classId="lsbootBootSecurity">
  <outConfigs>
    <lsbootBootSecurity dn="sys/chassis-1/server-1/boot-policy/boot-security"
      secureBoot="disabled"/>
  </outConfigs>
```

```

<lsbootBootSecurity dn="sys/chassis-1/server-2/boot-policy/boot-security"
secureBoot="disabled"/>
</outConfigs>
</configResolveClass>

```

### Enabling UEFI Secure Boot (Server 2)

Request:

```

<configConfMo cookie='1256583805/6a769571-db76-16db-8007-aaec921b0ff4'
dn='sys/chassis-1/server-2/boot-policy/boot-security'><inConfig><lsbootBootSecurity
secureBoot='enable' /></inConfig></configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-2/boot-policy/boot-security"
cookie="1256583805/6a769571-db76-16db-8007-aaec921b0ff4" response="yes">
<outConfig>
<lsbootBootSecurity dn="sys/chassis-1/server-2/boot-policy/boot-security"
secureBoot="enabled" status="modified"/>
</outConfig>
</configConfMo>

```

## Managing Boot Devices

The examples in this section show how to use the Cisco IMC XML API to manage a boot device. Each example shows the XML API request followed by the response from Cisco IMC.

This section includes the following examples:

- [Creating a Boot Device, on page 13](#)
- [Modifying a Boot Device, on page 14](#)
- [Deleting a Boot Device, on page 15](#)

### Creating a Boot Device

Request:

```

<configConfMo cookie="1418657182/795cfede-420a-1a42-800e-91fab1b0ff4"
dn="sys/chassis-1/server-1/boot-precision" inHierarchical="true">
<inConfig>
<lsbootDevPrecision dn="sys/chassis-1/server-1/boot-precision"
rebootOnUpdate="no" reapply="yes" >
<lsbootVMedia name="vmedia-c3260-test" type="VMEDIA"
order="1" state="Disabled" rn="vm-vmedia-c3260-test" />
<lsbootPxe name="pxe-c3260-test" type="PXE" slot="1" port="1"
order="2" state="Disabled" rn="pxe-pxe-c3260-test" />
<lsbootHdd name="hdd-c3260-test" type="LOCALHDD" order="3"
state="Disabled" rn="hdd-hdd-c3260-test" />
<lsbootSan name="san-c3260-test" type="SAN" slot="4" order="4"
state="Disabled" rn="san-san-c3260-test" />
<lsbootIscsi name="iscsi-c3260-test" type="ISCSI" slot="7"
order="5" state="Disabled" rn="iscsi-iscsi-c3260-test" />
</lsbootDevPrecision>
</inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-1/boot-precision"
cookie="1418657182/795cfede-420a-1a42-800e-91fab1b0ff4" response="yes">
<outConfig>

```

```

<lsbootDevPrecision dn="sys/chassis-1/server-1/boot-precision"
  name="boot-precision" purpose="operational" rebootOnUpdate="no"
  reapply="no" configuredBootMode="Uefi"
  lastConfiguredBootOrderSource="CIMC" status="modified">
  <lsbootVMedia name="vmedia-c3260-test" type="VMEDIA" order="1"
    state="Disabled" rn="vm-vmedia-c3260-test" status="modified"/>
  .
  .
  <lsbootPxe name="pxe-c3260-test" type="PXE" slot="1" port="1"
    order="2" state="Disabled" rn="pxe-pxe-c3260-test" status="modified"/>
  .
  .
  <lsbootHdd name="hdd-c3260-test" type="LOCALHDD" order="3"
    state="Disabled" rn="hdd-hdd-c3260-test" status="modified"/>
  .
  .
  <lsbootSan name="san-c3260-test" type="SAN" slot="4" order="4"
    state="Disabled" rn="san-san-c3260-test" status="modified"/>
  <lsbootIscsi name="iscsi-c3260-test" type="ISCSI" slot="7"
    order="5" state="Disabled" rn="iscsi-iscsi-c3260-test" status="modified"/>
  .
  .
</lsbootDevPrecision>
</outConfig>
</configConfMo>

```

## Modifying a Boot Device

Request:

```

<configConfMo cookie="1418661362/99fd4a5a-440a-1a44-800f-91fabbb1b0ff4"
  dn="sys/chassis-1/server-1/boot-precision" inHierarchical="true">
  <inConfig>
    <lsbootDevPrecision dn="sys/chassis-1/server-1/boot-precision"
      rebootOnUpdate="yes" status="modified">
      <lsbootVMedia name="vmedia-c3260-test" order="2" />
      <lsbootIscsi name="iscsi-c3260-test" order="4" />
    </lsbootDevPrecision>
  </inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-1/boot-precision"
  cookie="1418657182/795cfede-420a-1a42-800e-91fabbb1b0ff4"
  response="yes">
  <outConfig>
    <lsbootDevPrecision dn="sys/chassis-1/server-1/boot-precision"
      name="boot-precision" purpose="operational" rebootOnUpdate="no"
      reapply="no" configuredBootMode="Uefi" lastConfiguredBootOrderSource="CIMC"
      status="modified">
      <lsbootVMedia name="vmedia-c3260-test" type="VMEDIA" order="2"
        state="Disabled" rn="vm-vmedia-c3260-test" status="modified"/>
      .
      .
      <lsbootPxe name="pxe-c3260-test" type="PXE" slot="1" port="1"
        order="1" state="Disabled" rn="pxe-pxe-c3260-test" status="modified"/>
      .
      .
      <lsbootHdd name="hdd-c3260-test" type="LOCALHDD" order="3"
        state="Disabled" rn="hdd-hdd-c3260-test" status="modified"/>
      .
      .
      <lsbootSan name="san-c3260-test" type="SAN" slot="4" order="5s"

```

```

state="Disabled" rn="san-san-c3260-test" status="modified"/>
<lsbootIscsi name="iscsi-c3260-test" type="ISCSI" slot="7" order="4"
state="Disabled" rn="iscsi-iscsi-c3260-test" status="modified"/>
.
.
</lsbootDevPrecision>
</outConfig>
</configConfMo>

```

### Deleting a Boot Device

Request:

```

<configConfMo cookie="1418635679/ac17fae8-3d0a-1a3d-800a-91fab1b0ff4"
dn="sys/chassis-1/server-1/boot-precision" inHierarchical="true">
  <inConfig>
    <lsbootDevPrecision dn="sys/chassis-1/server-1/boot-precision"
rebootOnUpdate="yes" status="modified">
      <lsbootVMedia name="NIIODCIMCDVD" type="VMEDIA"
subtype="cimc-mapped-dvd" access="read-only-remote" order="3" status="removed"/>
    </lsbootDevPrecision>
  </inConfig>
</configConfMo>

```

## DIMM Blacklisting

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

This section includes the following examples:

- [Retrieving DIMM Blacklisting Details, on page 15](#)
- [Retrieving DIMM Blacklisting Details using DN, on page 16](#)
- [Enabling DIMM Blacklisting, on page 16](#)
- [Disabling DIMM Blacklisting, on page 16](#)

### Retrieving DIMM Blacklisting Details

Request:

```

<configResolveClass cookie="1256404558/fa002591-b176-16b1-8007-aaec921b0ff4"
inHierarchical="false" classId="memoryArray"/>

```

Response:

```

<configResolveClass cookie="1256404558/fa002591-b176-16b1-8007-aaec921b0ff4"
response="yes" classId="memoryArray">
  <outConfigs>
    <memoryArray dn="sys/chassis-1/server-1/board/memarray-1" currCapacity="131072" id="1"

maxDevices="16" populated="16" presence="equipped" overallDIMMStatus="green"
dimmBlackList="enabled" redundantMemory="0" memoryRASPossible="Independent Mirroring
Lockstep "
memoryConfiguration="Independent " failedMemory="0"
ignoredMemory="0" numOfIgnoredDimms="0" numOfFailedDimms="0"/>
    <memoryArray dn="sys/chassis-1/server-2/board/memarray-1"
currCapacity="262144" id="1" maxDevices="16" populated="16"
presence="equipped" overallDIMMStatus="red" dimmBlackList="enabled"
redundantMemory="0" memoryRASPossible="Independent "
memoryConfiguration="Independent " failedMemory="98304"
ignoredMemory="0" numOfIgnoredDimms="0" numOfFailedDimms="6"/>

```

```

    </outConfigs>
</configResolveClass>

```

## Retrieving DIMM Blacklisting Details using DN

Request:

```

<configResolveDn cookie="1256404558/fa002591-b176-16b1-8007-aaec921b0ff4"
dn='sys/chassis-1/server-1/board/memarray-1' inHierarchical="false"/>

```

Response:

```

<configResolveDn cookie="1256404558/fa002591-b176-16b1-8007-aaec921b0ff4"
response="yes" dn="sys/chassis-1/server-1/board/memarray-1">
  <outConfig>
    <memoryArray dn="sys/chassis-1/server-1/board/memarray-1" currCapacity="131072" id="1"

      maxDevices="16" populated="16" presence="equipped" overallDIMMStatus="green"
      dimmBlackList="enabled" redundantMemory="0"
      memoryRASPossible="Independent Mirroring Lockstep "
      memoryConfiguration="Independent " failedMemory="0"
      ignoredMemory="0" numOfIgnoredDimms="0" numOfFailedDimms="0"/>
    </outConfig>
  </configResolveDn>

```

## Enabling DIMM Blacklisting

Request:

```

<configConfMo cookie='1256416392/bc0f62a9-b476-16b4-8009-aaec921b0ff4'
dn='sys/chassis-1/server-2/board/memarray-1'><inConfig><memoryArray
dimmBlackList='enable'></inConfig></configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-2/board/memarray-1"
cookie="1256418045/eb9986c2-b476-16b4-8002-aaec921b0ff4" response="yes">
  <outConfig>
    <memoryArray dn="sys/chassis-1/server-2/board/memarray-1"
      currCapacity="262144" id="1" maxDevices="16" populated="16"
      presence="equipped" overallDIMMStatus="green" dimmBlackList="enabled"
      redundantMemory="0" memoryRASPossible="Independent "
      memoryConfiguration="Independent " failedMemory="98304"
      ignoredMemory="0" numOfIgnoredDimms="0" numOfFailedDimms="6"
      status="modified"/>
    </outConfig>
  </configConfMo>

```

## Disabling DIMM Blacklisting

Request:

```

<configConfMo cookie='1256416392/bc0f62a9-b476-16b4-8009-aaec921b0ff4'
dn='sys/chassis-1/server-2/board/memarray-1'><inConfig><memoryArray
dimmBlackList='disable'></inConfig></configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-2/board/memarray-1"
cookie="1256418045/eb9986c2-b476-16b4-8002-aaec921b0ff4" response="yes">
  <outConfig>
    <memoryArray dn="sys/chassis-1/server-2/board/memarray-1"
      currCapacity="262144" id="1" maxDevices="16" populated="16"
      presence="equipped" overallDIMMStatus="green" dimmBlackList="disabled"
      redundantMemory="0" memoryRASPossible="Independent "
      memoryConfiguration="Independent " failedMemory="98304"
      ignoredMemory="0" numOfIgnoredDimms="0" numOfFailedDimms="6"

```



```

    status="modified"/>
  </outConfig>
</configConfMo>

```

## BIOS Settings

The examples in this section show how to use the Cisco IMC XML API to manage BIOS settings. Each example shows the XML API request followed by the response from Cisco IMC.

This section includes the following examples:

- [Entering BIOS Setup, on page 17](#)
- [Retrieving BIOS Token Values, on page 17](#)
- [Configuring BIOS Parameters, on page 17](#)

### Entering BIOS Setup

Request:

```

<configConfMo cookie='1418468130/1d579ff4-160a-1a16-8004-91fabb1b0ff4'
dn='sys/chassis-1/server-1/bios'><inConfig><biosUnit
adminAction='enter-bios-setup' /></inConfig></configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-1/bios"
cookie="1418468130/1d579ff4-160a-1a16-8004-91fabb1b0ff4" response="yes">
  <outConfig>
    <biosUnit dn="sys/chassis-1/server-1/bios" model="UCSC-C3X60-BASE"
      vendor="Cisco Systems Inc" adminAction="no-op" status="modified"/>
  </outConfig>
</configConfMo>

```

### Retrieving BIOS Token Values

Request:

```

<configResolveClass cookie='1418722466/fced6450-520a-1a52-8014-91fabb1b0ff4'
inHierarchical='false' classId='biosVfLegacyUSBSupport' />

```

Response:

```

<configResolveClass cookie="1418722466/fced6450-520a-1a52-8014-91fabb1b0ff4"
response="yes" classId="biosVfLegacyUSBSupport">
  <outConfigs>
    <biosVfLegacyUSBSupport dn="sys/chassis-1/server-1/bios/bios-settings/LegacyUSB-Support"
      vpLegacyUSBSupport="enabled"/>
    <biosVfLegacyUSBSupport dn="sys/chassis-1/server-1/bios/bios-defaults/LegacyUSB-Support"
      vpLegacyUSBSupport="enabled"/>
  </outConfigs>
</configResolveClass>

```

### Configuring BIOS Parameters

Request:

```

<configConfMo cookie="1418723449/52bb08e3-520a-1a52-8015-91fabb1b0ff4"
inHierarchical="true" dn="sys/chassis-1/server-1/bios/bios-settings">
  <inConfig>

```

```

    <biosSettings>
    <biosVfLegacyUSBSupport
dn="sys/chassis-1/server-1/bios/bios-settings/LegacyUSB-Support"
    vpLegacyUSBSupport="disabled" />
    </biosSettings>
  </inConfig>
</configConfMo>

```

Response:

```

<configConfMo dn="sys/chassis-1/server-1/bios/bios-settings" cookie="1418723449/
52bb08e3-520a-1a52-8015-91fab1b0ff4" response="yes">
  <outConfig>
    <biosSettings dn="sys/chassis-1/server-1/bios/bios-settings" status="modified">
      <biosVfIntelVTForDirectedIO rn="Intel-VT-for-directed-IO" vpIntelVTDATSSup
port="enabled" vpIntelVTDCoherencySupport="disabled"
vpIntelVTForDirectedIO="enabled" status="modified"/>
      .
      .
      .
      <biosVfLegacyUSBSupport rn="LegacyUSB-Support" vpLegacyUSBSupport="disabled"
status="modified"/>
      .
      .
      .
    </biosSettings>
  </outConfig>
</configConfMo>

```