Cisco ベースボード管理コントローラ 2.0 REST API ガイド、リリース 2.0

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はじめに

この前書きは、次の項で構成されています。

- 対象読者 （vii ページ）
- 表記法 （vii ページ）

対象読者

このガイドは、次の1つ以上に責任を持つ、専門知識を備えたデータセンター管理者を主な対象にしています。

- サーバ管理
- ストレージ管理
- ネットワーク管理
- ネットワーク セキュリティ

表記法

テキストのタイプ	説明
GUI 要素	タブの見出し、領域名、フィールドのラベルのような GUI 要素は、**このフォント**のように表示されます。 ウィンドウ、ダイアログボックス、ウィザードのタイトルのようなメインタイトルは、 **このフォント**のように表示されます。
マニュアルのタイトル	マニュアルのタイトルは、 このフォントのように表示されます。
TUI 要素	テキストベースのユーザーインターフェイスでは、システムによって表示されるテキストは、 このフォントのように表示されます。

テキストのタイプ	説明
システム出力	システムが表示するターミナルセッションおよび情報は、 このフォントのように表示されます。
CLI コマンド	CLI コマンドのキーワードは、 **this font**のように表示されます。 CLI コマンド内の変数は、 このフォントのように表示されます。
[ ]	角カッコの中の要素は、省略可能です。
{x | y | z}	どれか1つを選択しなければならない必須キーワードは、波カッコで囲み、縦棒で区切って示しています。
[x | y | z]	どれか1つを選択できる省略可能なキーワードは、角カッコで囲み、縦棒で区切って示しています。
string	引用符を付けない一組の文字。string の前後には引用符を使用しません。引用符を使用すると、その引用符も含めて string とみなされます。
< >	パスワードのように出力されない文字は、山カッコで囲んで示しています。
[ ]	システム プロンプトに対するデフォルトの応答は、角カッコで囲んで示しています。
!、#	コードの先頭に感嘆符（!）またはポンド記号（#）がある場合には、コメント行であることを示します。

（注） 意味は、「注釈」です。役立つ情報や、このマニュアル以外の参照資料などを紹介しています。

ヒント 意味は、「問題解決に役立つ情報」です。ヒントには、トラブルシューティングや操作方法ではなく、ワンポイントアドバイスと同様に知っておくと役立つ情報が記述される場合もあります。

ワンポイント アドバイス 意味は、「時間を節約する方法」です。ここに紹介している方法で作業を行うと、時間を短縮できます。

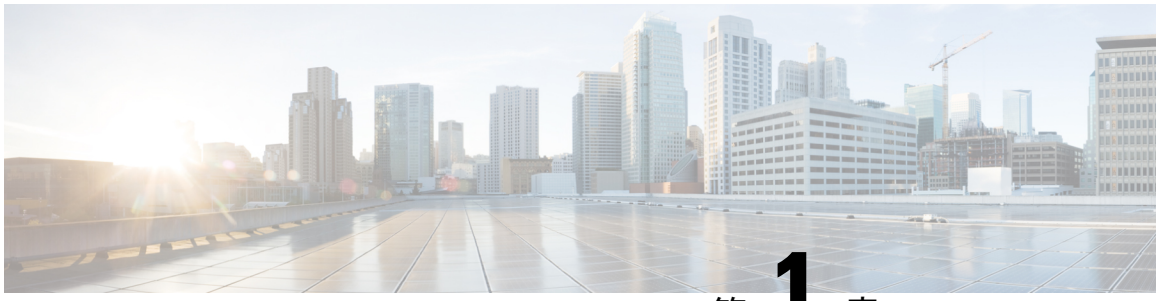
注意 意味は、「要注意」です。機器の損傷またはデータ損失を予防するための注意事項が記述されています。

警告 安全上の重要事項

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。各警告の最後に記載されているステートメント番号を基に、装置に付属の安全についての警告を参照してください。

これらの注意事項を保管しておいてください。

はじめに



第 1 章

Cisco BMC REST API の概要

- はじめに （1 ページ）
- Redfish スキーマと仕様 （1 ページ）

はじめに

Representational State Transfer（REST）または RESTful Web サービスを使用すると、インターネット上のコンピューター システム間の相互運用性を提供できます。REST 準拠の Web サービスを使用すると、統一された事前定義された一連のステートレス操作を使用して、Web リソースのテキスト表現にアクセスして操作するようシステムに要求できます。Ciscoは、RESTful API を使用して、Redfish™ テクノロジーを使用して UCS C シリーズ サーバーを構成する機能を構築しました。

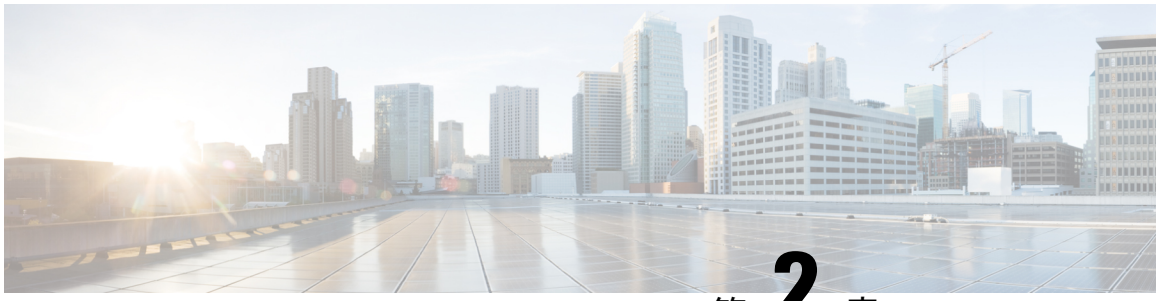
Redfish™ はオープンな業界標準仕様と構造定義（スキーマ）であり、RESTful インターフェイスと JSON や Odata を活用して顧客が既存のツールとソリューションを統合できるよう支援します。これは、広く使用されているさまざまな拡張性のあるITテクノロジーを利用しており、これらの受け入れられたテクノロジーを使用することにより、Redfish™ の使用を容易にします。Redfish™ は、業界全体で認知されているピアレビュー標準機関である Distributed Management Task Force Inc.（DMTF）の後援および管理を受けています。

DMTF および Redfish™ 標準の詳細については、 DMTF および Redfish* を参照してください。
。

Redfish スキーマと仕様

表 *1 : Redfish* スキーマと仕様

リリース	Redfish スキーマ	Redfish 仕様
リリース 2.0.1.250096	https://www.dmtf.org/sites/default/files/standards/documents/DSP0266_1.17.0.pdf	https://www.dmtf.org/sites/default/files/standards/documents/DSP8010_2024.2.zip



第 2 章

Cisco BMC REST API の例

- Redfish セッションの作成 （4 ページ）
- セッション Cookie の使用 （4 ページ）
- ユーザーの作成および削除 （5 ページ）
- 取得 Cisco BMC 2.0 ユーザ セッション （7 ページ）
- 特定のセッションの詳細を取得する （7 ページ）
- サーバの要約情報とホストの電源状態の取得 （8 ページ）
- サーバー電源の再投入 （10 ページ）
- BIOS トークンの取得 （10 ページ）
- TFTP を使用した Cisco IMC テクニカル サポート データのエクスポート （12 ページ）
- CPU 製品 ID の詳細の取得 （12 ページ）
- IMM/メモリ ユニット製品 ID の詳細の取得 （14 ページ）
- PCI アダプタ製品 ID の詳細の取得 （16 ページ）
- Cisco IMC ファームウェアのアップデート （18 ページ）
- BIOS ファームウェアの更新 （18 ページ）
- ストレージ アダプタ プロパティの取得 （19 ページ）
- ユーザー名がある VMedia への共有のマウント/アンマウント （20 ページ）
- ローカル ディスク（HDD）の詳細情報の取得 （23 ページ）
- Network Time Protocol（NTP）プロパティの取得 （24 ページ）
- すべて取得 Cisco BMC 2.0 [ユーザー （Users）] （25 ページ）
- 強力なパスワード ポリシーとパスワードの有効期限の有効化 （26 ページ）
- LDAP サーバの詳細の取得 （27 ページ）
- LDAP パラメータの設定 （29 ページ）
- サーバの既存のログの取得 （30 ページ）
- TPM 情報の取得 （31 ページ）
- PCI スロット情報の取得 （33 ページ）
- ネットワーク設定の取得 （34 ページ）
- SSL 証明書の作成およびアップロード （36 ページ）
- HSU 検出およびアップデート （36 ページ）
- HTTP 詳細の取得 （42 ページ）

• SMTP E メール受信者の構成 （43 ページ）
• NIC での DDNS およびドメイン名プロパティのサポート （44 ページ）
• 1 ～ 65535 の許容ポートで SMTP サービスを有効にする （48 ページ）
• サード パーティ アダプタの FRU データの表示 （50 ページ）
• サードパーティ アダプタの温度詳細の表示 （52 ページ）
• サードパーティ アダプタのポート ステータス詳細の表示 （52 ページ）
• GPU テレメトリ データのサポート （54 ページ）

Redfish セッションの作成

リクエスト

```
curl -v -k https://10.10.10.10/redfish/v1/SessionService/Sessions -XPOST -H
"Content-Type: application/json" -d '{
"UserName" : "admin",
"Password" : "password"
}'
```

レスポンス

```
{
"@odata.id": "/redfish/v1/SessionService/Sessions/Qg8te4hjhS",
"@odata.type": "#Session.v1_7_0.Session",
"ClientOriginIPAddress": "10.110.227.238",
"Description": "User Session",
"Id": "Qg8te4hjhS",
"Name": "User Session",
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/SessionService/Sessions/Qg8te4hjhS#Oem/Ami",
"@odata.type": "#AMIWebSession.v1_0_0.WebSession",
"WebSession": {
"KvmActive": false,
"VmActive": [
false,
false
]
}
}
},
"Roles": [
"Administrator"
],
"SessionType": "Redfish",
"UserName": "admin"
}
```

セッション Cookie の使用

リクエスト

```
curl -k https://10.10.10.10/redfish/v1/SessionService/Sessions/vHRPIu10ln
-H "X-Auth-Token : nLeqH8AVagg3ejBHhK7b"
```

レスポンス


```
{
"@odata.id": "/redfish/v1/SessionService/Sessions/vHRPIu10ln",
"@odata.type": "#Session.v1_7_0.Session",
"ClientOriginIPAddress": "10.233.67.172",
"Description": "User Session",
"Id": "vHRPIu10ln",
"Name": "User Session",
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/SessionService/Sessions/vHRPIu10ln#Oem/Ami",
"@odata.type": "#AMIWebSession.v1_0_0.WebSession",
"WebSession": {
"KvmActive": false,
"UserId": 103556,
"VmActive": [
false,
false
]
}
}
},
"Roles": [
"Administrator"
],
"SessionType": "Redfish",
"UserName": "admin"
}
```


ユーザーの作成および削除

（注） Operator ロールを持つユーザーを作成すると、そのアカウントはデフォルトで有効になります。パスワードを変更する必要はなく、 仮想メディア（vMedia）アクセスが自動的に有効になります。

UserRequest の作成

リクエスト

```
curl -k -u *username*:*password* -X POST https://10.10.10.10/redfish/
v1/AccountService/Accounts -H "Content-Type: application/json" -d ' {
"UserName": "UserTest",
"Password": "password",
"RoleId": "Operator",
"Enabled": true,
"PasswordChangeRequired": false,
"OEMAccountTypes": [
"media"
]
}'
```

レスポンス


```
{
"@Message.ExtendedInfo": [
```

```
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The resource was created successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Created",
"MessageSeverity": "OK",
"Resolution": "None."
}
]
}
```


ユーザーの確認

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/
AccountService/Accounts/UserTest
```

レスポンス


```
{
"@odata.id": "/redfish/v1/AccountService/Accounts/UserTest",
"@odata.type": "#ManagerAccount.v1_7_0.ManagerAccount",
"AccountTypes": [
"IPMI",
"OEM",
"Redfish",
"WebUI",
"VirtualMedia",
"SNMP",
"ManagerConsole"
],
"Description": "User Account",
"Enabled": true,
"Id": "UserTest",
"Links": {
"Role": {
"@odata.id": "/redfish/v1/AccountService/Roles/Operator"
}
},
"Locked": false,
"Name": "User Account",
"OEMAccountTypes": [
"media"
],
"Password": null,
"PasswordChangeRequired": false,
"RoleId": "Operator",
"UserName": "UserTest"
}
```


ユーザの削除

リクエスト

```
curl -k -u *username*:*password* -X DELETE https://10.10.10.10/
redfish/v1/AccountService/Accounts/UserTest
```

レスポンス


```
{
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
```

```
"Message": "The account was successfully removed.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.AccountRemoved",
"MessageSeverity": "OK",
"Resolution": "None."
}
]
}
```


取得 Cisco BMC 2.0 ユーザ セッション

すべてのアクティブ セッションの取得リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/SessionService/Sessions
```

レスポンス


```
{
"@odata.id": "/redfish/v1/SessionService/Sessions",
"@odata.type": "#SessionCollection.SessionCollection",
"Description": "Session Collection",
"Members": [
{
"@odata.id": "/redfish/v1/SessionService/Sessions/eNgSrLFMRp"
},
{
"@odata.id": "/redfish/v1/SessionService/Sessions/yNk5n2A9Am"
},
{
"@odata.id": "/redfish/v1/SessionService/Sessions/PNZM53EZDb"
},
{
"@odata.id": "/redfish/v1/SessionService/Sessions/eyMxZjdD7u"
},
{
"@odata.id": "/redfish/v1/SessionService/Sessions/ICGVN2Nol6"
},
{
"@odata.id": "/redfish/v1/SessionService/Sessions/session_5"
}
],
"Members@odata.count": 6,
"Name": "Session Collection"
}
```


特定のセッションの詳細を取得する

特定のセッションの詳細を取得するリクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/SessionService/Sessions/yNk5n2A9m
```

レスポンス


```
{
"@odata.id": "/redfish/v1/SessionService/Sessions/yNk5n2A9Am",
"@odata.type": "#Session.v1_7_0.Session",
"ClientOriginIPAddress": "10.10.10.10",
"Description": "Manager User Session",
"Id": "yNk5n2A9Am",
"Name": "User Session",
"Oem": {
"AMI_WebSession": {
"@odata.id": "/redfish/v1/SessionService/Sessions/yNk5n2A9Am#/Oem/AMI_WebSession",
"@odata.type": "#AMIWebSession.v1_0_0.WebSession",
"KvmActive": false,
"MountType": "",
"UserId": 20,
"VmActive": [
false,
false
]
}
},
"Roles": [
"Administrator"
],
"SessionType": "Redfish",
"UserName": "*username*"
}
```


サーバの要約情報とホストの電源状態の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system",
"@odata.type": "#ComputerSystem.v1_22_0.ComputerSystem",
"Actions": {
"#ComputerSystem.Reset": {
"@Redfish.ActionInfo": "/redfish/v1/Systems/system/ResetActionInfo",
"target": "/redfish/v1/Systems/system/Actions/ComputerSystem.Reset"
}
},
"AssetTag": "Test123",
"BiosVersion": "1.5.8",
"Description": "Computer System",
"HostWatchdogTimer": {
"FunctionEnabled": false,
"Status": {
"State": "Enabled"
},
"TimeoutAction": "ResetSystem"
},
"Id": "system",
"LastResetTime": "2025-07-09T03:29:32+00:00",
"MemorySummary": {
"TotalSystemMemoryGiB": 512
```

```
},
"Model": "CAI-845A-M8",
"Name": "CAI 845A M8",
"PartNumber": "74-140233-01",
"PowerRestorePolicy": "AlwaysOff",
"PowerState": "On",
"ProcessorSummary": {
"CoreCount": 192,
"Count": 2
},
"SystemType": "Physical",
"UUID": "6c9fca01-69fc-496a-bcfe-fb9527cd3249",
"VirtualMediaConfig": {
"ServiceEnabled": true
}
}
```


サーバの電源装置の詳細の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Chassis/
chassis/PowerSubsystem/PowerSupplies/PSU2
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Chassis/chassis/PowerSubsystem/PowerSupplies/PSU2",
"@odata.type": "#PowerSupply.v1_6_0.PowerSupply",
"Id": "PSU2",
"Links": {
"Oem": {
"Cisco": {
"@odata.type": "#CiscoUCSExtensions.v1_0_0.CiscoUCSExtensions",
"Sensors": [
{
"@odata.id": "/redfish/v1/Chassis/chassis/Sensors/power_POWER_PSU2"
},
{
"@odata.id": "/redfish/v1/Chassis/chassis/Sensors/temperature_TEMP_PSU2"
}
]
}
}
},
"Manufacturer": "ACBEL",
"Model": "R1CA2322A",
"Name": "PSU2",
"PartNumber": "74-140240-01",
"SerialNumber": "A012512001859000GDFSP018",
"Status": {
"Health": "OK",
"State": "Enabled"
}
}
```

サーバー電源の再投入

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/
WZP21330G5B/Actions /ComputerSystem.Reset -XPOST -H "Content-Type: application/
json" -d '{"ResetType":"PowerCycle"}'
```

レスポンス

成功した場合、レスポンスは表示されません。失敗した場合、エラーメッセージが表示されます。

BIOS トークンの取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system/Bios
```

レスポンス


```
{
"@Redfish.Settings": {
"@odata.type": "#Settings.v1_2_2.Settings",
"SettingsObject": {
"@odata.id": "/redfish/v1/Systems/system/Bios/Settings"
}
},
"@odata.id": "/redfish/v1/Systems/system/Bios",
"@odata.type": "#Bios.v1_2_0.Bios",
"Actions": {
"#Bios.ChangePassword": {
"target": "/redfish/v1/Systems/system/Bios/Actions/Bios.ChangePassword"
},
"#Bios.ResetBios": {
"target": "/redfish/v1/Systems/system/Bios/Actions/Bios.ResetBios"
}
},
"AttributeRegistry": "BiosAttributeRegistryv.1.5.0",
"Attributes": {
"ACPI004": "Disabled",
"IPMI813": "",
"MAPIDS":
"SETUP0:0,SETUP10:0,NVCK01:0,NWK01:0,CsmMemRefmgmtDi:0,CsmMemAfmDi:0,IPM524:1,IPM553:0,IPM555:1,IPM557:1,IPM554:0,IPM556:1,IPM810:1,IPM811:1,IPM812:1,MAPIDS:0,",
"NB001": "Auto",
"NVLCK002": "Enabled",
"NWSK004": 0,
"NWSK005": 1,
"NWSK006": "Enabled",
"PcdAmdNbioEgressPoisonMaskHi": 4294770687,
"PcdSyshubWdtTimerInterval": 2600,
"SECB008": "Enabled",
"SETUP003": 5,
"SETUP004": "On",
"SETUP005": "Disabled",
```

```
"STRAP_COMPLIANCE_DIS": "Auto",
"TCG001": "Enabled",
"USB030": "Auto"
},
"Description": "BIOS Configuration Service",
"Id": "BIOS",
"Links": {
"ActiveSoftwareImage": {
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/bios"
},
"SoftwareImages": [
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/bios"
}
],
"SoftwareImages@odata.count": 1
},
"Name": "BIOS Configuration",
"ResetBiosToDefaultsPending": false
}
```


BIOS トークンのデフォルト値の取得

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Registries/BiosAttributeRegistryv.en-US.1.5.0.json
```

レスポンス


```
{
"@odata.context": "/redfish/v1/$metadata#AttributeRegistry.AttributeRegistry",
"@odata.etag": "Dummyetag",
"@odata.id": "/redfish/v1/Registries/BiosAttributeRegistryv.en-US.1.5.0.json",
"@odata.type": "#AttributeRegistry.v1_3_1.AttributeRegistry",
"Description": "This registry defines a representation of BIOS Attribute instances",
"Id": "BiosAttributeRegistryv.en-US.1.5.0",
"Language": "en-US",
"Name": "v BIOS Attribute Registry",
"OwningEntity": "AMI",
"RegistryEntries": {
"Attributes": [
{
"AttributeName": "SETUP009",
"DefaultValue": "7274605",
"DisplayName": "System Date",
"HelpText": "Set the Date. Use Tab to switch between Date elements. Default Ranges: Year:
 1998-9999 Months: 1-12 Days: Dependent on month Range of Years may vary.",
"MenuPath": "./Main",
"ReadOnly": false,
"ResetRequired": false,
"Type": "String",
"UefiNamespaceId": "x-UEFI-AMI"
}
]
},
"RegistryVersion": "1.5.0"
}
```

TFTP を使用した Cisco IMC テクニカル サポート データのエクスポート

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/Actions/Oem/CiscoUCSExtensions.BmcTechSupportExport
 -XPOST -d '{ "Protocol":"TFTP", "RemoteHostname":"10.10.10.10",
"RemotePath":"TechSupport.tar.gz" }'
```

レスポンス

```
{
"@odata.id": "/redfish/v1/TaskService/Tasks/209",
"@odata.type": "#Task.v1_4_3.Task",
"Id": "209",
"TaskState": "New"
}
```

エクスポート テクニカル サポート タスクのステータスを確認するリクエスト

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/TaskService/Tasks/209
```

レスポンス

```
{
"@odata.id": "/redfish/v1/TaskService/Tasks/209",
"@odata.type": "#Task.v1_4_3.Task",
"HidePayload": true,
"Id": "209",
"Messages": [],
"Name": "Task 209",
"PercentComplete": 30,
"StartTime": "2025-07-10T07:40:31+00:00",
"TaskMonitor": "/redfish/v1/TaskService/TaskMonitors/209",
"TaskState": "Running"
}
```

CPU 製品 ID の詳細の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system/Processors
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Processors",
"@odata.type": "#ProcessorCollection.ProcessorCollection",
"Description": "The Collection of processors",
"Members": [
{
"@odata.id": "/redfish/v1/Systems/system/Processors/CPU1"
},
{
"@odata.id": "/redfish/v1/Systems/system/Processors/CPU2"
},
{
"@odata.id": "/redfish/v1/Systems/system/Processors/GPU_7"
},
{
"@odata.id": "/redfish/v1/Systems/system/Processors/GPU_8"
}
],
"Members@odata.count": 4,
"Name": "Processor Collection"
}
```


各 CPU の詳細を取得するリクエスト

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Systems/system/Processors/CPU1
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Processors/CPU1",
"@odata.type": "#Processor.v1_15_0.Processor",
"AccelerationFunctions": {
"@odata.id": "/redfish/v1/Systems/system/Processors/CPU1/AccelerationFunctions"
},
"FPGA": {
"PCIeVirtualFunctions": 0,
"ProgrammableFromHost": false
},
"Id": "CPU1",
"InstructionSet": "x86-64",
"Links": {
"ConnectedProcessors": [
{
"@odata.id": "/redfish/v1/Systems/system/Processors/CPU1/SubProcessors/CPU1_Core0"
},
{
"@odata.id": "/redfish/v1/Systems/system/Processors/CPU1/SubProcessors/CPU1_Core95"
}
],
"ConnectedProcessors@odata.count": 96
},
"Manufacturer": "Advanced Micro Devices, Inc.",
"MaxSpeedMHz": 4500,
"Model": "AMD EPYC 9655 96-Core Processor",
"Name": "CPU1",
"OperatingSpeedMHz": 2600,
```

```
"PartNumber": "15-110937-01",
"ProcessorArchitecture": "x86",
"ProcessorId": {
"EffectiveFamily": "0x001A",
"Step": "0x00C1"
},
"ProcessorMemory": [
{
"CapacityMiB": 7,
"IntegratedMemory": true,
"MemoryType": "L1Cache"
}
],
"ProcessorType": "CPU",
"SerialNumber": "9MI7061V40057",
"Socket": "CPU1",
"Status": {
"Health": "OK",
"State": "Enabled"
},
"SubProcessors": {
"@odata.id": "/redfish/v1/Systems/system/Processors/CPU1/SubProcessors"
},
"TotalCores": 96,
"TotalEnabledCores": 96,
"TotalThreads": 192,
"Version": "AMD EPYC 9655 96-Core Processor"
}
```


IMM/メモリ ユニット製品 ID の詳細の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system/Memory/
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Memory",
"@odata.type": "#MemoryCollection.MemoryCollection",
"Description": "Collection of Memories for this system",
"Members": [
{
"@odata.id": "/redfish/v1/Systems/system/Memory/DIMM1"
},
{
"@odata.id": "/redfish/v1/Systems/system/Memory/GPU_8_DRAM_0"
}
],
"Members@odata.count": 34,
"Name": "Memory Module Collection"
}
```

特定のメモリ ユニット（DIMM）の詳細の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system/Memory/DIMM1
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Memory/DIMM2",
"@odata.type": "#Memory.v1_11_0.Memory",
"AllocationAlignmentMiB": 0,
"AllocationIncrementMiB": 0,
"AllowedSpeedsMHz": [
5600
],
"BaseModuleType": "RDIMM",
"BusWidthBits": 80,
"CacheSizeMiB": 0,
"CapacityMiB": 32768,
"ConfigurationLocked": false,
"DataWidthBits": 64,
"ErrorCorrection": "NoECC",
"FirmwareRevision": "0",
"Id": "DIMM2",
"IsRankSpareEnabled": false,
"IsSpareDeviceEnabled": false,
"Location": {
"PartLocation": {
"ServiceLabel": "CPU1_DIMM_A1"
}
},
"Manufacturer": "Samsung",
"MaxTDPMilliWatts": [],
"MemoryDeviceType": "DDR5",
"MemoryLocation": {
"Channel": 0,
"MemoryController": 3,
"Slot": 1,
"Socket": 0
},
"MemoryMedia": [
"DRAM"
],
"MemorySubsystemControllerManufacturerID": "0x0000",
"MemorySubsystemControllerProductID": "0x0000",
"MemoryType": "DRAM",
"Model": "M321R4GA0PB0-CWMKH",
"ModuleManufacturerID": "0xCE80",
"ModuleProductID": "0x0000",
"Name": "DIMM2",
"NonVolatileSizeMiB": 0,
"OperatingMemoryModes": [
"Volatile"
],
"OperatingSpeedMhz": 4800,
"PartNumber": "M321R4GA0PB0-CWMKH",
"PersistentRegionNumberLimit": 0,
"PersistentRegionSizeLimitMiB": 0,
"PersistentRegionSizeMaxMiB": 0,
"RankCount": 1,
"SecurityCapabilities": {
```

```
"ConfigurationLockCapable": false,
"DataLockCapable": false,
"MaxPassphraseCount": 0,
"PassphraseCapable": false,
"PassphraseLockLimit": 0
},
"SerialNumber": "80CE01232604DB85B9",
"SpareDeviceCount": 0,
"SparePartNumber": "",
"Status": {
"Health": "OK",
"State": "Enabled"
},
"VolatileRegionNumberLimit": 1,
"VolatileRegionSizeLimitMiB": 32768,
"VolatileRegionSizeMaxMiB": 32768,
"VolatileSizeMiB": 32768
}
```


PCI アダプタ製品 ID の詳細の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system
```

レスポンス


```
{
"@Redfish.Settings": {
"@odata.type": "#Settings.v1_2_2.Settings",
"SettingsObject": {
"@odata.id": "/redfish/v1/Systems/system/SD"
}
},
"@odata.id": "/redfish/v1/Systems/system",
"@odata.type": "#ComputerSystem.v1_22_0.ComputerSystem",
"AssetTag": "Test123",
"Bios": {
"@odata.id": "/redfish/v1/Systems/system/Bios"
},
"BiosVersion": "1.5.8",
"Description": "Computer System",
"GraphicalConsole": {
"ConnectTypesSupported": [
"KVMIP"
],
"MaxConcurrentSessions": 2,
"ServiceEnabled": true
},
"PCIeDevices": [
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_10"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_12"
}
],
"PCIeDevices@odata.count": 2,
"PCIeFunctions": [
```

```
{
"@odata.id":
"/redfish/v1/Systems/system/PCIeDevices/GPU_7/PCIeFunctions/0"
}
],
"PCIeFunctions@odata.count": 1,
"Id": "system",
"LastResetTime": "2025-07-10T05:05:25+00:00",
"LocationIndicatorActive": false,
"Manufacturer": "Cisco Systems Inc",
"Model": "CAI-845A-M8",
"Name": "CAI 845A M8",
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/Systems/system#Oem/Ami",
"@odata.type": "#AMIBIOSInventoryCRC.v1_0_0.AMIBIOSInventoryCRC"
}
},
"OpenBmc": {
"SerialConsole": {
"IPMI": {
"@odata.type":
"#AMIManagerNetworkProtocol.v1_0_0.AMIManagerNetworkProtocol",
"Masked": false
},
"SSH": {
"@odata.type":
"#AMIManagerNetworkProtocol.v1_0_0.AMIManagerNetworkProtocol",
"Masked": false
}
},
"VirtualMediaConfig": {
"@odata.type":
"#AMIManagerNetworkProtocol.v1_0_0.AMIManagerNetworkProtocol",
"Masked": false
}
},
"PartNumber": "74-140233-01",
"PowerRestorePolicy": "AlwaysOff",
"PowerState": "On",
"ProcessorSummary": {
"CoreCount": 192,
"Count": 2
},
"SerialNumber": "5077771122A",
"SystemType": "Physical",
"UUID": "6c9fca01-69fc-496a-bcfe-fb9527cd3249",
"VirtualMediaConfig": {
"ServiceEnabled": true
}
}
```


各 PCI アダプタの情報を取得するリクエスト

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Systems/system/PCIeDevices/GPU_7/PCIeFunctions/0
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/GPU_7/PCIeFunctions/0",
"@odata.type": "#PCIeFunction.v1_2_3.PCIeFunction",
"DeviceId": "0x26b9",
"FunctionId": 0,
"Id": "0",
"Links": {
"PCIeDevice": {
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/GPU_7"
}
},
"Name": "PCIe Function",
"SubsystemId": "0x1851",
"SubsystemVendorId": "0x10de",
"VendorId": "0x10de"
}
```


Cisco IMC ファームウェアのアップデート

リクエスト

```
curl -k -u *username*:*password* -H "Content-Type: application/octet-stream" -XPOST -T
*path_to_bmc_image_file* https://10.10.10.10/redfish/v1/UpdateService/update
```

レスポンス


```
Response is a link to the async task created:
{
"Message": "BMC update is in progress. RoT will flash the BMC and
reboot it. This process will take approximately 15 minutes.",
"error": {
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The request completed successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Success",
"MessageSeverity": "OK",
"Resolution": "None."
}
],
"code": "Base.1.18.1.Success",
"message": "The request completed successfully."
}
}
```


BIOS ファームウェアの更新

リクエスト

```
curl -k -u *username*:*password* -H "Content-Type: application/octet-stream" -XPOST -T
*path_to_bios_image_file*
https://10.10.10.10/redfish/v1/Managers/bmc/Oem/OemManagement/OEMUpdate
```

レスポンス


```
{
"Message": "BIOS update is in progress. RoT will flash the BIOS and
reboot it. This process will take approximately 10 minutes.",
"error": {
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The request completed successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Success",
"MessageSeverity": "OK",
"Resolution": "None."
}
],
"code": "Base.1.18.1.Success",
"message": "The request completed successfully."
}
}
```


ストレージ アダプタ プロパティの取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system/Storage
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Storage",
"@odata.type": "#StorageCollection.StorageCollection",
"Description": "Collection of storage for this system",
"Members": [
{
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTOR-RAID"
}
],
"Members@odata.count": 1,
"Name": "Storage Collection"
}
```


特定のストレージ アダプタの詳細の取得

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Systems/system/Storage/MSTOR-RAID
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTOR-RAID",
"@odata.type": "#Storage.v1_13_0.Storage",
"Description": "Cisco Boot optimized M.2 Raid controller",
"Drives": [
{
```

```
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTOR-RAID/Drives/253"
},
{
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTOR-RAID/Drives/254"
}
],
"Drives@odata.count": 2,
"Id": "MSTOR-RAID",
"Links": {
"Oem": {
"Cisco": {
"PCIeInfo": {
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/MSTORRAID/PCIeFunctions/0"
}
}
}
},
"Name": "MSTOR-RAID",
"Status": {
"Health": "OK",
"State": "Enabled"
},
"StorageControllers": [
{
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTORRAID#/StorageControllers/0",
"FirmwareVersion": "2.3.17.1014",
"Location": {
"PartLocation": {
"LocationOrdinalValue": 1,
"LocationType": "Slot",
"ServiceLabel": "MSTOR-RAID"
}
},
"Manufacturer": "Cisco Systems Inc",
"MemberId": "MSTOR-RAID",
"Model": "CAI-M2-HWRAID",
"Name": "Cisco Boot optimized M.2 Raid controller",
"SerialNumber": "FCH283376BV",
"SupportedControllerProtocols": [
"PCIe"
],
"SupportedRAIDTypes": [
"RAID1"
]
}
],
"Volumes": {
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTOR-RAID/Volumes"
}
}
```


ユーザー名がある VMedia への共有のマウント/アンマウント

vMedia のマウントのリクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/VirtualMedia/Slot_2/
Actions/VirtualMedia.InsertMedia -XPOST -d '{
```

```
"Image": "nfs://10.10.10.10:/path_to_image/*image_name*",
"UserName": "*username*",
"Password": "*password*",
"TransferProtocolType": "NFS"
}'
```

仮想メディア（vMedia） のマウント リクエストに対する応答

```
{
"error": {
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The request completed successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Success",
"MessageSeverity": "OK",
"Resolution": "None."
}
],
"code": "Base.1.18.1.Success",
"message": "The request completed successfully."
}
}
```

マウント後の詳細取得リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/VirtualMedia/Slot_2
```

詳細取得リクエストに対する応答

```
{
"@odata.id": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2",
"@odata.type": "#VirtualMedia.v1_3_0.VirtualMedia",
"Actions": {
"#VirtualMedia.EjectMedia": {
"target": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2/Actions/VirtualMedia.EjectMedia"
},
"#VirtualMedia.InsertMedia": {
"target": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2/Actions/VirtualMedia.InsertMedia"
}
},
"ConnectedVia": "URI",
"Description": "Virtual removable media that can only be accessed or mapped through a
remote server",
"Id": "Slot_2",
"Image": "nfs://10.10.10.10:/home/ubuntu-16.04.5-desktop-amd64.iso",
"ImageName": "ubuntu-16.04.5-desktop-amd64.iso",
"Inserted": true,
"MediaTypes": [
"CD",
"USBStick"
],
"Name": "Remote Server mapped Virtual Removable Media",
"Oem": {
"OpenBMC": {
"@odata.id": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2#/Oem/OpenBMC",
"@odata.type": "#OpenBMCVirtualMedia.v1_0_0.VirtualMedia",
"RetryCount": 3,
"RetryInterval": 15
}
},
```

```
"TransferMethod": "Stream",
"TransferProtocolType": "NFS",
"WriteProtected": true
}
```


vMedia のアンマウントのリクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/VirtualMedia/Slot_2/Actions/VirtualMedia.EjectMedia
 -XPOST
```

仮想メディア（vMedia） のマウント解除リクエストに対する応答


```
{
"error": {
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The request completed successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Success",
"MessageSeverity": "OK",
"Resolution": "None."
}
],
"code": "Base.1.18.1.Success",
"message": "The request completed successfully."
}
}
```


マウント解除された仮想メディア ステータスの取得

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/VirtualMedia/Slot_2
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2",
"@odata.type": "#VirtualMedia.v1_3_0.VirtualMedia",
"Actions": {
"#VirtualMedia.EjectMedia": {
"target": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2/Actions/VirtualMedia.EjectMedia"
},
"#VirtualMedia.InsertMedia": {
"target": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2/Actions/VirtualMedia.InsertMedia"
}
},
"ConnectedVia": "NotConnected",
"Description": "Virtual removable media that can only be accessed or mapped through a
remote server",
"Id": "Slot_2",
"Inserted": false,
"MediaTypes": [
"CD",
"USBStick"
],
"Name": "Remote Server mapped Virtual Removable Media",
```

```
"Oem": {
"OpenBMC": {
"@odata.id": "/redfish/v1/Managers/bmc/VirtualMedia/Slot_2#/Oem/OpenBMC",
"@odata.type": "#OpenBMCVirtualMedia.v1_0_0.VirtualMedia",
"RetryCount": 3,
"RetryInterval": 15
}
},
"TransferMethod": "Stream",
"WriteProtected": true
}
```


ユーザ名がない VMedia への共有のマウント

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/VirtualMedia/Slot_2/
Actions/VirtualMedia.InsertMedia -XPOST -d '{
"Image": "nfs://10.10.10.10:/path_to_image",
"WriteProtected":true,
"TransferMethod":"Stream",
"Inserted":true,
"TransferProtocolType":"NFS"
}'
```

レスポンス


```
{
"error": {
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The request completed successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Success",
"MessageSeverity": "OK",
"Resolution": "None."
}
],
"code": "Base.1.18.1.Success",
"message": "The request completed successfully."
}
}
```


ローカル ディスク（HDD）の詳細情報の取得

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Systems/system/Storage/MSTOR-RAID/Drives/253
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTOR-RAID/Drives/253",
"@odata.type": "#Drive.v1_13_0.Drive",
```

```
"BlockSizeBytes": 512,
"CapableSpeedGbs": 6,
"CapacityBytes": 960197123584,
"EncryptionAbility": "None",
"EncryptionStatus": "Unencrypted",
"FailurePredicted": false,
"HotspareType": "None",
"Id": "253",
"Links": {
"Storage": {
"@odata.id": "/redfish/v1/Systems/system/Storage/MSTOR-RAID"
}
},
"Manufacturer": "ATA",
"MediaType": "SSD",
"Model": "CAI-M2-960G",
"Name": "Micron_5400_MTFDDAV960TGA",
"NegotiatedSpeedGbs": 6,
"Oem": {
"Cisco": {
"DriveState": "Jbod"
}
},
"PredictedMediaLifeLeftPercent": 100,
"Protocol": "SATA",
"Revision": "D4CS000",
"RotationSpeedRPM": 0,
"SerialNumber": "2426499FC8B0",
"Status": {
"Health": "OK",
"State": "Enabled"
}
}
```


Network Time Protocol（NTP）プロパティの取得

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/NetworkProtocol
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Managers/bmc/NetworkProtocol",
"@odata.type": "#ManagerNetworkProtocol.v1_9_0.ManagerNetworkProtocol",
"Description": "Manager Network Service",
"FQDN": "C845-5077771122A",
"HTTP": {
"Port": null,
"ProtocolEnabled": false
},
"HTTPS": {
"Certificates": {
"@odata.id": "/redfish/v1/Managers/bmc/NetworkProtocol/HTTPS/Certificates"
},
"Port": 443,
"ProtocolEnabled": true
},
"HostName": "C845-5077771122A",
```

```
"IPMI": {
"Port": 623,
"ProtocolEnabled": true
},
"Id": "NetworkProtocol",
"NTP": {
"NTPServers": [
"time-a-b.nist.gov",
"time-b-b.nist.gov"
],
"NetworkSuppliedServers": [],
"ProtocolEnabled": true
},
"Name": "Manager Network Protocol",
"SSH": {
"Port": 22,
"ProtocolEnabled": true
},
"Status": {
"Health": "OK",
"State": "Enabled"
}
}
```


Network Time Protocol（NTP）プロパティの設定

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/NetworkProtocol -XPATCH -d '{
"NTP": {
"ProtocolEnabled": true,
"NTPServers": [
"time-b-c.nist.gov"
]
}
}'
```

レスポンス

```
204, No Content
```

すべて取得 Cisco BMC 2.0 [ユーザー （Users）]

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/AccountService/Accounts/
```

レスポンス


```
{
"@odata.id": "/redfish/v1/AccountService/Accounts",
@odata.type": "#ManagerAccountCollection.ManagerAccountCollection",
"Description": "User Accounts",
"Members": [
{
"@odata.id": "/redfish/v1/AccountService/Accounts/testuser"
```

```
},
{
"@odata.id": "/redfish/v1/AccountService/Accounts/test_user1"
},
{
"@odata.id": "/redfish/v1/AccountService/Accounts/admin"
}
],
Members@odata.count": 3,
"Name": "Accounts Collection"
}
```

強力なパスワードポリシーとパスワードの有効期限の有効化

リクエスト

```
curl -XPATCH -k -u *username*:*password* https://10.10.10.10/redfish/v1/AccountService
-d '{
"Oem":
{
"OpenBMC":
{
"PasswordPolicyComplexity":"Low"
}
}
}'
```

レスポンス

```
{
"error": {
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The request completed successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Success",
"MessageSeverity": "OK",
"Resolution": "None."
}
],
"code": "Base.1.18.1.Success",
"message": "The request completed successfully."
}
}
```

（注） 以下では、パスワードの有効期限はサポートされていません Cisco UCS C845A M8 ラック サーバー。

LDAP サーバの詳細の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/AccountService/
```

レスポンス


```
{
"@odata.id": "/redfish/v1/AccountService",
"@odata.type": "#AccountService.v1_15_0.AccountService",
"AccountLockoutDuration": 300,
"AccountLockoutThreshold": 10,
"Accounts": {
"@odata.id": "/redfish/v1/AccountService/Accounts"
},
"Description": "Account Service",
"HTTPBasicAuth": "Enabled",
"Id": "AccountService",
"LDAP": {
"Authentication": {
"AuthenticationType": "UsernameAndPassword",
"Password": null,
"Username": ""
},
"Certificates": {
"@odata.id": "/redfish/v1/AccountService/LDAP/Certificates"
},
"LDAPService": {
"SearchSettings": {
"BaseDistinguishedNames": [
""
],
"GroupsAttribute": "",
"UsernameAttribute": ""
}
},
"RemoteRoleMapping": [],
"ServiceAddresses": [
""
],
"ServiceEnabled": false
},
"MaxPasswordLength": 20,
"MinPasswordLength": 8,
"MultiFactorAuth": {
"ClientCertificate": {
"CertificateMappingAttribute": "CommonName",
"Certificates": {
"@odata.id":
"/redfish/v1/AccountService/MultiFactorAuth/ClientCertificate/Certificates",
"@odata.type": "#CertificateCollection.CertificateCollection",
"Members": [
{
"@odata.id":
"/redfish/v1/AccountService/MultiFactorAuth/ClientCertificate/Certificates/1"
}
],
"Members@odata.count": 3,
"Name": "Multi-factor authentication client certificates"
```

```
},
"Enabled": true,
"RespondToUnauthenticatedClients": true
}
},
"Name": "Account Service",
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/AccountService#/Oem/Ami",
"@odata.type": "#OemAccountService.Configuration",
"Configuration": {
"PamOrder": [
"Internal Users",
"LDAP"
]
}
}
},
"Roles": {
"@odata.id": "/redfish/v1/AccountService/Roles"
},
"ServiceEnabled": true
}
```


LDAP サーバの IP アドレスとポート番号の設定

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/AccountService/ -XPATCH
 -d '{
"LDAP" :{
"ServiceAddresses":["ldap://10.1.1.1:389","ldap://10.1.1.1:389"]
}
}'
```

レスポンス


```
{
"LDAP": {
"Authentication": {
"AuthenticationType": "UsernameAndPassword",
"Password": null,
"Username": ""
},
"LDAPService": {
"SearchSettings": {
"BaseDistinguishedNames": [
""
],
"GroupsAttribute": "",
"UsernameAttribute": ""
}
},
"RemoteRoleMapping": [],
"ServiceAddresses": [
"ldap://10.1.1.1:389"
],
"ServiceEnabled": false
},
"ServiceAddresses@Message.ExtendedInfo": [
{
```

```
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The property ServiceAddresses was assigned the value
'\"ldap://10.1.1.1:389\"' due to modification by the service.",
"MessageArgs": [
"ServiceAddresses",
"\"ldap://10.1.1.1:389\""
],
"MessageId": "Base.1.18.1.PropertyValueModified",
"MessageSeverity": "Warning",
"Resolution": "None."
}
]
}
```

LDAP パラメータの設定

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/AccountService/ -XPATCH
 -d '{
"LDAP": {
"ServiceEnabled": true,
"ServiceAddresses": [
"ldap://10.1.1.1:389",
"ldap://10.1.1.1:389"
],
"LDAPService": {
"SearchSettings": {
"GroupsAttribute": "memberGroup",
"UsernameAttribute": "CiscoUsername",
"BaseDistinguishedNames": [
"test"
]
}
}
}'
```

レスポンス

```
{
"LDAP": {
"Authentication": {
"AuthenticationType": "UsernameAndPassword",
"Password": null,
"Username": ""
},
"LDAPService": {
"SearchSettings": {
"BaseDistinguishedNames": [
"test"
],
"GroupsAttribute": "memberGroup",
"UsernameAttribute": "CiscoUsername"
}
},
"RemoteRoleMapping": [],
"ServiceAddresses": [
"ldap://10.1.1.1:389"
],
"ServiceEnabled": true
```

```
},
"ServiceAddresses@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The property ServiceAddresses was assigned the value '\"ldap://10.1.1.1:389\"'
 due to
modification by the service.",
"MessageArgs": [
"ServiceAddresses",
"\"ldap://10.1.1.1:389\""
],
"MessageId": "Base.1.18.1.PropertyValueModified",
"MessageSeverity": "Warning",
"Resolution": "None."
}
]
}
```


サーバの既存のログの取得

既存のログのリストを取得するためのリクエスト

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/
redfish/v1/Managers/bmc/LogServices/Journal/Entries
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Managers/bmc/LogServices/Journal/Entries",
"@odata.type": "#LogEntryCollection.LogEntryCollection",
"Description": "Collection of BMC Journal Entries",
"Members": [
{
"@odata.id":
"/redfish/v1/Managers/bmc/LogServices/Journal/Entries/6561b5faf1774aa6b34dabc11c9c309c_16747931",
"@odata.type": "#LogEntry.v1_9_0.LogEntry",
"Created": "2025-07-18T13:56:22.608718+00:00",
"EntryType": "Oem",
"Id": "6561b5faf1774aa6b34dabc11c9c309c_16747931",
"Message": "kernel: Booting Linux on physical CPU 0xf00",
"Name": "BMC Journal Entry",
"OemRecordFormat": "BMC Journal Entry",
"Severity": "OK"
}
],
"Members@odata.count": 1,
"Members@odata.nextLink":
"/redfish/v1/Managers/bmc/LogServices/Journal/Entries?$skip=1000",
"Name": "BMC Journal Entries"
}
```


既存の障害イベントのリストを取得するためのリクエスト

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/
redfish/v1/Managers/bmc/LogServices/Journal/Entries
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/LogServices/EventLog/Entries",
"@odata.type": "#LogEntryCollection.LogEntryCollection",
"Description": "Collection of System Event Log Entries",
"Members": [
{
"@odata.id": "/redfish/v1/Systems/system/LogServices/EventLog/Entries/2",
"@odata.type": "#LogEntry.v1_9_0.LogEntry",
"AdditionalDataURI":
"/redfish/v1/Systems/system/LogServices/EventLog/Entries/2/attachment",
"Created": "2025-07-30T12:25:00.112+00:00",
"EntryType": "Event",
"Id": "2",
"Message": "CAI-845A-DCSCM= Board with serial number WIP28480002 was installed.",
"Modified": "2025-07-30T12:25:00.112+00:00",
"Name": "System Event Log Entry",
"Resolved": false,
"Severity": "OK"
}
],
"Members@odata.count": 335,
"Name": "System Event Log Entries"
}
```


各ログの詳細を取得するリクエスト

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/
redfish/v1/Managers/bmc/LogServices/Journal/Entries/
abbea5a197b04e8aa17a240f1871e608_72761440
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Managers/bmc/LogServices/Journal/Entries/
abbea5a197b04e8aa17a240f1871e608_72761440",
"@odata.type": "#LogEntry.v1_9_0.LogEntry",
"Created": "2025-08-01T12:00:27.525243+00:00",
"EntryType": "Oem",
"Id": "abbea5a197b04e8aa17a240f1871e608_72761440",
"Message": "kvm-dbus-monitor: lpcReset: not Selected as Triggering event",
"Name": "BMC Journal Entry",
"OemRecordFormat": "BMC Journal Entry",
"Severity": "OK"
}
```


TPM 情報の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/system
```

レスポンス


```
{
"@Redfish.Settings": {
"@odata.type": "#Settings.v1_2_2.Settings",
"SettingsObject": {
"@odata.id": "/redfish/v1/Systems/system/SD"
}
},
"@odata.id": "/redfish/v1/Systems/system",
"@odata.type": "#ComputerSystem.v1_22_0.ComputerSystem",
"AssetTag": "Test123",
"BiosVersion": "1.5.8",
"Boot": {
"AutomaticRetryConfig": "Disabled",
"BootOptions": {
"@odata.id": "/redfish/v1/Systems/system/BootOptions"
},
"BootOrder": [
"Boot0003"
],
"BootSourceOverrideEnabled": "Disabled",
"BootSourceOverrideMode": "UEFI",
"BootSourceOverrideTarget": "None",
"StopBootOnFault": "Never",
"TrustedModuleRequiredToBoot": "Disabled"
},
"Description": "Computer System",
"HostWatchdogTimer": {
"FunctionEnabled": false,
"Status": {
"State": "Enabled"
},
"TimeoutAction": "ResetSystem"
},
"Id": "system",
"LastResetTime": "2025-07-18T13:56:46+00:00",
"LocationIndicatorActive": false,
"LogServices": {
"@odata.id": "/redfish/v1/Systems/system/LogServices"
},
"Manufacturer": "Cisco Systems Inc",
"Model": "CAI-845A-M8",
"Name": "CAI 845A M8",
"Oem": {
"Cisco": {
"@odata.id": "/redfish/v1/Systems/system#/Oem/Cisco",
"@odata.type": "#CiscoUCSExtensions.v1_0_0.CiscoUCSExtensions",
"BiosPostComplete": true
}
},
"PartNumber": "74-140233-01",
"PowerRestorePolicy": "AlwaysOff",
"PowerState": "On",
"ProcessorSummary": {
"CoreCount": 192,
"Count": 2
},
"Processors": {
"@odata.id": "/redfish/v1/Systems/system/Processors"
},
"SerialNumber": "5077771122A",
"SystemType": "Physical",
"TrustedModules": [
```

```
{
"FirmwareVersion": "15.23.17664.0",
"InterfaceType": "TPM2_0",
"Oem": {
"Cisco": {
"TPM": {
"Description": "INFINEON",
"OemInformation": "0x00000000",
"SpecificationVersion": "2.0",
"Vendor": "IFX"
}
}
},
"Status": {
"Health": "OK",
"HealthRollup": "OK",
"State": "Enabled"
}
}
],
"UUID": "6c9fca01-69fc-496a-bcfe-fb9527cd3249",
"VirtualMediaConfig": {
"ServiceEnabled": true
}
}
```


PCI スロット情報の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Systems/
system/PCIeDevices
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices",
"@odata.type": "#PCIeDeviceCollection.PCIeDeviceCollection",
"Description": "Collection of PCIe Devices",
"Members": [
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_9"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_10"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_11"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_12"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_13"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/GPU_5"
},
{
```

```
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/GPU_6"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/GPU_7"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/GPU_8"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/MSTOR-RAID"
},
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/OCP_NIC"
}
],
"Members@odata.count": 11,
"Name": "PCIe Device Collection"
}
```


ネットワーク設定の取得

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/
Managers/bmc/EthernetInterfaces/eth0
```

レスポンス


```
UseDNSServers": false,
"UseDomainName": true,
"UseNTPServers": true
},
"DHCPv6": {
"OperatingMode": "Enabled",
"UseDNSServers": false,
"UseDomainName": true,
"UseNTPServers": true
},
"Description": "Management Network Interface",
"EthernetInterfaceType": "Physical",
"FQDN": "C845-5077771122A",
"FullDuplex": true,
"HostName": "C845-5077771122A",
"IPv4Addresses": [
{
"Address": "10.106.146.73",
"AddressOrigin": "Static",
"Gateway": "10.106.146.1",
"SubnetMask": "255.255.255.0"
}
],
"IPv4StaticAddresses": [
{
"Address": "10.106.146.73",
"AddressOrigin": "Static",
"Gateway": "10.106.146.1",
"SubnetMask": "255.255.255.0"
}
],
"IPv6AddressPolicyTable": [],
```

```
"IPv6Addresses": [
{
"Address": "fe80::a4c3:40ff:fe23:e8b5",
"AddressOrigin": "LinkLocal",
"PrefixLength": 64
}
],
"IPv6DefaultGateway": "fe80::6e9c:edff:febb:2b80",
"IPv6StaticAddresses": [],
"IPv6StaticDefaultGateways": [],
"Id": "eth0",
"InterfaceEnabled": true,
"LinkStatus": "LinkUp",
"MACAddress": "a6:c3:40:23:e8:b5",
"MTUSize": 1500,
"MaxIPv6StaticAddresses": 16,
"Name": "Manager Ethernet Interface",
"NameServers": [
"171.70.168.183"
],
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/Managers/bmc/EthernetInterfaces/eth0#Oem/Ami",
"@odata.type": "#AMINetworkConfiguration.v1_0_0.AmiNetworkConfiguration",
"DNSConfiguration": {
"DHCPConfiguration": {
"SendHostNameEnabled": true,
"SendNsupdateEnabled": true
},
"DomainConfiguration": {
"DomainNames": []
},
"HostConfiguration": {
"HostNameSetting": "Auto",
"StaticHostName": ""
},
"InterfacesConfiguration": {
"DDNSMethod": "Register",

"NSUpdateEnable": true,
"UseTSIG": false
}
},
"NCSIConfiguration": {
"IsNCSI": false
}
}
},
"SpeedMbps": 1000,
"StatelessAddressAutoConfig": {
"IPv6AutoConfigEnabled": true
},
"StaticNameServers": [
"171.70.168.183"
],
"Status": {
"State": "Enabled"
}
}
```

SSL 証明書の作成およびアップロード

リクエスト

```
curl -XPOST -H "Content-Type: application/json" -k -u admin:password
https://10.106.146.73/redfish/v1/CertificateService/Actions/CertificateService.GenerateCSR
 -d '
{
"CertificateCollection": {
"@odata.id": "/redfish/v1/Managers/bmc/NetworkProtocol/HTTPS/Certificates/"
},
"Country": "IN",
"State": "Ka",
"City": "Blr",
"Organization": "Cisco",
"OrganizationalUnit": "ucs",
"CommonName": "no-one@cisco.com",
"KeyPairAlgorithm": "EC",
"AlternativeNames": [],
"KeyCurveId": "secp384r1",
"ChallengePassword": "1234",
"Email": "xyz@cisco.com"
}’
Response:
{
"CSRString": "-----BEGIN CERTIFICATE REQUEST-----
<REDACTED_CERTIFICATE_STRING>
-----END CERTIFICATE REQUEST-----\n",
"CertificateCollection": {
"@odata.id": "/redfish/v1/Managers/bmc/NetworkProtocol/HTTPS/Certificates/"
}
}
```

BMC へのアップロード

リクエスト

```
curl -XPOST -H "Content-Type: application/json" -k -u admin:password
https://10.10.10.10/redfish/v1/
CertificateService/Actions/CertificateService.ReplaceCertificate -d '
{ "CertificateString" : <SIGNED CERTIFICATE CONTENT>
"CertificateType" : "PEM", "CertificateUri" : "/redfish/v1/Managers/bmc/
NetworkProtocol/HTTPS/Certificates/1"
```

レスポンス

HSU 検出およびアップデート

ファームウェアインベントリを取得して、検出された更新可能なアイテムのリストを検索するリクエスト

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/
UpdateService/FirmwareInventory
```

レスポンス


```
{
"@odata.context":
"/redfish/v1/$metadata#SoftwareInventoryCollection.SoftwareInventoryCollection",
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory",
"@odata.type": "#SoftwareInventoryCollection.SoftwareInventoryCollection",
"Description": "Inventory of Firmware components",
"Members": [
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/bmc"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/scm_fpga"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/mb_fpga"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/sw_fpga"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/bios"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/CAI-P-N3220-slot-FHHL_10"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/CAI-P-N7S400GF-slot-FHHL_12"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/UCS-NVES1T9K1V-slot-FRONT_NVME_8"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/CAI-GPU-L40S-slot-GPU_7"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/CAI-GPU-L40S-slot-GPU_8"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/CAI-M2-HWRAID-slot-MSTOR-RAID"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/MSTOR-RAID_Drive_253"
},
{
"@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/MSTOR-RAID_Drive_254"
}
],
"Members@odata.count": 13,
"Name": "Firmware Inventory"
}
```


「すべての」検出されたコンポーネントでの HSU ファームウェア アップデートをトリガするリクエスト

リクエスト

```
curl -k -H "Content-Type: application/json" -X POST -u admin:abc@2025
https://10.10.10.10/redfish/
v1/UpdateService/Actions/UpdateService.SimpleUpdate -d
'{"ImageURI":"https://10.10.10.10/HUU/Server/
ucsc-845a-m8-huu-2.0.1.250001D.iso",
```

```
"Username":"httpuser","Password":"Httppwd@123","TransferProtocol":"HTTPS",
"ForceUpdate":false,"@Redfish.OperationApplyTime": "Immediate", "Targets": []}'
```

レスポンス

```
{
"@odata.id": "/redfish/v1/TaskService/Tasks/52",
"@odata.type": "#Task.v1_4_3.Task",
"Id": "52",
"TaskState": "New"
}
```

タスク ID を取得してファームウェア アップデートのステータスを取得するリクエスト

リクエスト

```
curl -ksu *username*:*password* https://10.10.10.10/redfish/v1/TaskService/Tasks/52
```

レスポンス

```
{
"@odata.id": "/redfish/v1/TaskService/Tasks/52",
"@odata.type": "#Task.v1_4_3.Task",
"EndTime": "2025-07-21T18:54:19+00:00",
"HidePayload": true,
"Id": "52",
"Messages": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-P-N3140H-slot-FHHL_11' successfully updated with image
'32.44.1036'.",
"MessageArgs": [
"CAI-P-N3140H-slot-FHHL_11",
"32.44.1036"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-P-N3140H-slot-FHHL_12' successfully updated with image
'32.44.1036'.",
"MessageArgs": [
"CAI-P-N3140H-slot-FHHL_12",
"32.44.1036"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'UCS-NVES7T6K1V-slot-FRONT_NVME_13' successfully updated with image
'1PET6103'.",
"MessageArgs": [
"UCS-NVES7T6K1V-slot-FRONT_NVME_13",
"1PET6103"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-P-N3220-slot-FHHL_10' successfully updated with image
'32.44.1036'.",
```

```
"MessageArgs": [
"CAI-P-N3220-slot-FHHL_10",
"32.44.1036"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-GPU-MI210-slot-GPU_1' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_1",
"113-D67307V-073_3.16"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-GPU-MI210-slot-GPU_2' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_2",
"113-D67307V-073_3.16"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-GPU-MI210-slot-GPU_5' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_5",
"113-D67307V-073_3.16"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-GPU-MI210-slot-GPU_7' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_7",
"113-D67307V-073_3.16"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-GPU-MI210-slot-GPU_8' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_8",
"113-D67307V-073_3.16"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
```

```
"Message": "Device 'CAI-M2-HWRAID-slot-MSTOR-RAID' successfully updated with image
'2.3.17.1014'.",
"MessageArgs": [
"CAI-M2-HWRAID-slot-MSTOR-RAID",
"2.3.17.1014"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-P-N3140H-slot-FHHL_13' successfully updated with image
'32.44.1036'.",
"MessageArgs": [
"CAI-P-N3140H-slot-FHHL_13",
"32.44.1036"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'MSTOR-RAID_Drive_253' successfully updated with image '7CV1CS05'.",
"MessageArgs": [
"MSTOR-RAID_Drive_253",
"7CV1CS05"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'MSTOR-RAID_Drive_254' successfully updated with image '7CV1CS05'.",
"MessageArgs": [
"MSTOR-RAID_Drive_254",
"7CV1CS05"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-P-N3140H-slot-FHHL_9' successfully updated with image
'32.44.1036'.",
"MessageArgs": [
"CAI-P-N3140H-slot-FHHL_9",
"32.44.1036"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-GPU-MI210-slot-GPU_3' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_3",
"113-D67307V-073_3.16"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
```

```
"Message": "Device 'CAI-GPU-MI210-slot-GPU_6' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_6",
"113-D67307V-073_3.16"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'UCS-NVES3T8K1V-slot-FRONT_NVME_3' successfully updated with image
'1PET6103'.",
"MessageArgs": [
"UCS-NVES3T8K1V-slot-FRONT_NVME_3",
"1PET6103"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'CAI-GPU-MI210-slot-GPU_4' successfully updated with image
'113-D67307V-073_3.16'.",
"MessageArgs": [
"CAI-GPU-MI210-slot-GPU_4",
"113-D67307V-073_3.16"
],
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'mb_fpga' successfully updated with image '1.0c'.",
"MessageArgs": [
"mb_fpga",
"1.0c"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'bios' successfully updated with image '1.5.9'.",
"MessageArgs": [
"bios",
"1.5.9"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'sw_fpga' successfully updated with image '0.30'.",
"MessageArgs": [
"sw_fpga",
"0.30"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'bmc' successfully updated with image '2.0(2.250015)'.",
"MessageArgs": [
"bmc",
"2.0(2.250015)"
```

```
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Device 'scm_fpga' successfully updated with image '1.09'.",
"MessageArgs": [
"scm_fpga",
"1.09"
],
"MessageId": "Update.1.1.1.UpdateSuccessful",
"Severity": "OK"
},
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "Successfully Completed Request",
"MessageId": "Base.1.13.0.Success",
"Severity": "OK"
}
],
"Name": "Task 52",
"PercentComplete": 100,
"StartTime": "2025-07-21T16:05:21+00:00",
"TaskMonitor": "/redfish/v1/TaskService/TaskMonitors/52",
"TaskState": "Completed",
"TaskStatus": "OK"
}
```


HTTP 詳細の取得

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Managers/bmc/NetworkProtocol
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Managers/bmc/NetworkProtocol",
"@odata.type": "#ManagerNetworkProtocol.v1_9_0.ManagerNetworkProtocol",
"Description": "Manager Network Service",
"FQDN": "C845-5077771122A.cisco.com",
"HTTP": {
"Port": null,
"ProtocolEnabled": false
},
"HTTPS": {
"Certificates": {
"@odata.id": "/redfish/v1/Managers/bmc/NetworkProtocol/HTTPS/Certificates"
},
"Port": 443,
"ProtocolEnabled": true
},
"HostName": "C845-5077771122A",
"IPMI": {
"Port": 623,
"ProtocolEnabled": true
},
```

```
"Id": "NetworkProtocol",
"NTP": {
"NTPServers": [
"10.10.10.10"
],
"NetworkSuppliedServers": [],
"ProtocolEnabled": true
},
"Name": "Manager Network Protocol",
"SSH": {
"Port": 22,
"ProtocolEnabled": true
},
"Status": {
"Health": "OK",
"State": "Enabled"
}
}
```


SMTP E メール受信者の構成

リクエスト

レスポンス


```
{
"@odata.id": "/redfish/v1/EventService",
"@odata.type": "#EventService.v1_5_0.EventService",
"Actions": {
"#EventService.SubmitTestEvent": {
"@Redfish.ActionInfo": "/redfish/v1/EventService/SubmitTestEventActionInfo",
"target": "/redfish/v1/EventService/Actions/EventService.SubmitTestEvent"
}
},
"DeliveryRetryAttempts": 3,
"DeliveryRetryIntervalSeconds": 60,
"Description": "Event Service",
"EventFormatTypes": [
"Event",
"MetricReport"
],
"Id": "EventService",
"Name": "Event Service",
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/EventService#Oem/Ami",
"@odata.type": "#AMIEventService.SMTP",
"SMTP": {
"PrimaryConfiguration": {
"Enable": true,
"Host": "10.10.10.10",
"Port": 1,
"Recipient": [
"newrecipient@example.com"
],
"Sender": "sender@example.com"
},
"SecondaryConfiguration": {
"Enable": false,
```

```
"Host": "",
"Port": 25,
"Recipient": [
"",
"",
"",
""
],
"Sender": ""
}
}
}
},
"RegistryPrefixes": [
"Base",
"OpenBMC",
"TaskEvent"
],
"ResourceTypes": [
"Task"
],
"SSEFilterPropertiesSupported": {
"EventFormatType": true,
"MessageId": true,
"MetricReportDefinition": true,
"OriginResource": false,
"RegistryPrefix": true,
"ResourceType": false
},
"ServerSentEventUri": "/redfish/v1/EventService/SSE",
"ServiceEnabled": true,
"Status": {
"State": "Enabled"
},
"Subscriptions": {
"@odata.id": "/redfish/v1/EventService/Subscriptions"
}
}
```


NIC での DDNS およびドメイン名プロパティのサポート

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/
Managers/bmc/EthernetInterfaces/eth0
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Managers/bmc/EthernetInterfaces/eth0",
"@odata.type": "#EthernetInterface.v1_9_0.EthernetInterface",
"AutoNeg": true,
"DHCPv4": {
"DHCPEnabled": false,
"UseDNSServers": false,
"UseDomainName": true,
"UseNTPServers": true
},
"DHCPv6": {
"OperatingMode": "Enabled",
```

```
"UseDNSServers": false,
"UseDomainName": true,
"UseNTPServers": true
},
"Description": "Management Network Interface",
"EthernetInterfaceType": "Physical",
"FQDN": "C845-5077771122A",
"FullDuplex": true,
"HostName": "C845-5077771122A",
"IPv4Addresses": [
{
"Address": "10.106.146.73",
"AddressOrigin": "Static",
"Gateway": "10.106.146.1",
"SubnetMask": "255.255.255.0"
}
],
"IPv4StaticAddresses": [
{
"Address": "10.106.146.73",
"AddressOrigin": "Static",
"Gateway": "10.106.146.1",
"SubnetMask": "255.255.255.0"
}
],
"IPv6AddressPolicyTable": [],
"IPv6Addresses": [
{
"Address": "fe80::a4c3:40ff:fe23:e8b5",
"AddressOrigin": "LinkLocal",
"PrefixLength": 64
}
],
"IPv6DefaultGateway": "fe80::6e9c:edff:febb:2b80",
"IPv6StaticAddresses": [],
"IPv6StaticDefaultGateways": [],
"Id": "eth0",
"InterfaceEnabled": true,
"LinkStatus": "LinkUp",
"MACAddress": "a6:c3:40:23:e8:b5",
"MTUSize": 1500,
"MaxIPv6StaticAddresses": 16,
"Name": "Manager Ethernet Interface",
"NameServers": [
"171.70.168.183"
],
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/Managers/bmc/EthernetInterfaces/eth0#Oem/Ami",
"@odata.type": "#AMINetworkConfiguration.v1_0_0.AmiNetworkConfiguration",
"DNSConfiguration": {
"DHCPConfiguration": {
"SendHostNameEnabled": true,
"SendNsupdateEnabled": true
},
"DomainConfiguration": {
"DomainNames": []
},
"HostConfiguration": {
"HostNameSetting": "Auto",
"StaticHostName": ""
},
"InterfacesConfiguration": {
"DDNSMethod": "Register",
```

```
"NSUpdateEnable": true,
"UseTSIG": false
}
},
"NCSIConfiguration": {
"IsNCSI": false
}
}
},
"SpeedMbps": 1000,
"StatelessAddressAutoConfig": {
"IPv6AutoConfigEnabled": true
},
"StaticNameServers": [
"171.70.168.183"
],
"Status": {
"State": "Enabled"
}
}
```


設定

リクエスト

```
curl -k -X PATCH -H "Content-Type: application/json" -u admin:abc@123 https://10.10.10.10/
redfish/v1/Managers/bmc/EthernetInterfaces/eth0 -d
'{"DHCPv4":{"UseDomainName":false},"DHCPv6":
{"UseDomainName":false},"Oem":{"Ami":{"DNSConfiguration":{"DomainConfiguration":{"DomainNames":
["example.com"]}}}}}'
```

レスポンス


```
{
"error": {
"@Message.ExtendedInfo": [
{
"@odata.type": "#Message.v1_1_1.Message",
"Message": "The request completed successfully.",
"MessageArgs": [],
"MessageId": "Base.1.18.1.Success",
"MessageSeverity": "OK",
"Resolution": "None."
}
],
"code": "Base.1.18.1.Success",
"message": "The request completed successfully."
}
}
```


\

更新されたデータの確認

リクエスト

```
curl -k -u admin:abc@123 https://10.10.10.10/redfish/v1/
Managers/bmc/EthernetInterfaces/eth0
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Managers/bmc/EthernetInterfaces/eth0",
"@odata.type": "#EthernetInterface.v1_9_0.EthernetInterface",
```

```
"AutoNeg": true,
"DHCPv4": {
"DHCPEnabled": true,
"UseDNSServers": false,
"UseDomainName": false,
"UseNTPServers": true
},
"DHCPv6": {
"OperatingMode": "Enabled",
"UseDNSServers": false,
"UseDomainName": false,
"UseNTPServers": true
},
"Description": "Management Network Interface",
"EthernetInterfaceType": "Physical",
"FQDN": "C845-50800008M3S.example.com",
"FullDuplex": true,
"HostName": "C845-50800008M3S",
"IPv4Addresses": [
{
"Address": "10.106.146.97",
"AddressOrigin": "DHCP",
"Gateway": "10.106.146.1",
"SubnetMask": "255.255.255.0"
}
],
"IPv4StaticAddresses": [],
"IPv6AddressPolicyTable": [],
"IPv6Addresses": [
{
"Address": "fe80::eef4:cff:fea0:1494",
"AddressOrigin": "LinkLocal",
"PrefixLength": 64
}
],
"IPv6DefaultGateway": "fe80::6e9c:edff:febb:2b80",
"IPv6StaticAddresses": [],
"IPv6StaticDefaultGateways": [],
"Id": "eth0",
"InterfaceEnabled": true,
"LinkStatus": "LinkUp",
"MACAddress": "ec:f4:0c:a0:14:94",
"MTUSize": 1500,
"MaxIPv6StaticAddresses": 16,
"Name": "Manager Ethernet Interface",
"NameServers": [
"171.70.168.183"
],
"Oem": {
"Ami": {
"@odata.id": "/redfish/v1/Managers/bmc/EthernetInterfaces/eth0#Oem/Ami",
"@odata.type": "#AmiNetworkConfiguration.v1_0_0.AmiNetworkConfiguration",
"DNSConfiguration": {
"DHCPConfiguration": {
"SendHostNameEnabled": true,
"SendNsupdateEnabled": true
},
"DomainConfiguration": {
"DomainNames": [
"example.com"
]
},
"HostConfiguration": {
"HostNameSetting": "Auto",
```

```
"StaticHostName": ""
},
"InterfacesConfiguration": {
"DDNSMethod": "Register",
"NSUpdateEnable": true,
"UseTSIG": false
}
},
"NCSIConfiguration": {
"IsNCSI": false
}
}
},
"SpeedMbps": 1000,
"StatelessAddressAutoConfig": {
"IPv6AutoConfigEnabled": true
},
"StaticNameServers": [
"171.70.168.183"
],
"Status": {
"State": "Enabled"
}
}
```


1 ～ 65535 の許容ポートで SMTP サービスを有効にする

リクエスト

```
curl -k -u *username*:*password* -X PATCH https://10.10.10.10/redfish/v1/EventService
-H "Content-Type: application/json" -d '{
"ServiceEnabled": true,
"Oem": {
"Ami": {
"SMTP": {
"PrimaryConfiguration": {
"Host": "10.10.10.10",
"Port": 1
}
}
}
}
}'
```

レスポンス


```
{
"@odata.id": "/redfish/v1/EventService",
"@odata.type": "#EventService.v1_5_0.EventService",
"Actions": {
"#EventService.SubmitTestEvent": {
"@Redfish.ActionInfo": "/redfish/v1/EventService/SubmitTestEventActionInfo",
"target": "/redfish/v1/EventService/Actions/EventService.SubmitTestEvent"
}
},
"DeliveryRetryAttempts": 3,
"DeliveryRetryIntervalSeconds": 60,
"Description": "Event Service",
"EventFormatTypes": [
"Event",
```

```
"MetricReport"
],
"Id": "EventService",
"Name": "Event Service",
"Oem": {
"Ami": {
"SMTP": {
"@odata.type": "#AMIEventService.SMTP",
"PrimaryConfiguration": {
"Enable": true,
"Host": "10.10.10.10",
"Port": 25,
"Recipient": [
"admin@example.com"
],
"Sender": "sender@example.com"
},
"SecondaryConfiguration": {
"Enable": false,
"Host": "",
"Port": 25,
"Recipient": [
"",
"",
"",
""
],
"Sender": ""
}
}
}
},
"RegistryPrefixes": [
"Base",
"OpenBMC",
"TaskEvent"
],
"ResourceTypes": [
"Task"
],
"SSEFilterPropertiesSupported": {
"EventFormatType": true,
"MessageId": true,
"MetricReportDefinition": true,
"OriginResource": false,
"RegistryPrefix": true,
"ResourceType": false
},
"ServerSentEventUri": "/redfish/v1/EventService/SSE",
"ServiceEnabled": true,
"Status": {
"State": "Enabled"
},
"Subscriptions": {
"@odata.id": "/redfish/v1/EventService/Subscriptions"
}
}
```

サードパーティ アダプタの FRU データの表示

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Chassis/chassis/NetworkAdapters/FHHL_10
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Chassis/chassis/NetworkAdapters/FHHL_10",
"@odata.type": "#NetworkAdapter.v1_3_0.NetworkAdapter",
"Controllers": [
{
"ControllerCapabilities": {
"DataCenterBridging": {
"Capable": false
},
"NPAR": {
"NparCapable": false,
"NparEnabled": false
},
"NPIV": {
"MaxDeviceLogins": 0,
"MaxPortLogins": 0
},
"NetworkPortCount": 1,
"VirtualizationOffload": {
"SRIOV": {
"SRIOVVEPACapable": false
},
"VirtualFunction": {
"DeviceMaxCount": 0,
"MinAssignmentGroupSize": 0,
"NetworkPortMaxCount": 0
}
}
},
"FirmwarePackageVersion": "32.41.1300",
"Links": {
"NetworkPorts": [
{
"@odata.id":
"/redfish/v1/Chassis/chassis/NetworkAdapters/FHHL_10/NetworkPorts/NetworkPort_0"
}
],
"NetworkPorts@odata.count": 1,
"PCIeDevices": [
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_10"
}
],
"PCIeDevices@odata.count": 1
},
"PCIeInterface": {
"LanesInUse": 0,
"MaxLanes": 0
}
},
{
```

```
"ControllerCapabilities": {
"DataCenterBridging": {
"Capable": false
},
"NPAR": {
"NparCapable": false,
"NparEnabled": false
},
"NPIV": {
"MaxDeviceLogins": 0,
"MaxPortLogins": 0
},
"NetworkPortCount": 1,
"VirtualizationOffload": {
"SRIOV": {
"SRIOVVEPACapable": false
},
"VirtualFunction": {
"DeviceMaxCount": 0,
"MinAssignmentGroupSize": 0,
"NetworkPortMaxCount": 0
}
}
},
"FirmwarePackageVersion": "32.41.1300",
"Links": {
"NetworkPorts": [
{
"@odata.id":
"/redfish/v1/Chassis/chassis/NetworkAdapters/FHHL_10/NetworkPorts/NetworkPort_1"
}
],
"NetworkPorts@odata.count": 1,
"PCIeDevices": [
{
"@odata.id": "/redfish/v1/Systems/system/PCIeDevices/FHHL_10"
}
],
"PCIeDevices@odata.count": 1
},
"PCIeInterface": {
"LanesInUse": 0,
"MaxLanes": 0
}
}
],
"Description": "An instance of network adapter represents the physical network adapter
capable of connecting
to a computer network",
"Id": "FHHL_10",
"Manufacturer": "Mellanox Technologies Ltd.",
"Model": "CAI-P-N3220",
"Name": "Nvidia OEM BlueField-3 B3220 DPU 2x200G QSFP112, Crypto Disabled",
"NetworkPorts": {
"@odata.id": "/redfish/v1/Chassis/chassis/NetworkAdapters/FHHL_10/NetworkPorts"
},
"PartNumber": "30-100381-01",
"SKU": "900-9D3B6-00SV-AA0",
"SerialNumber": "MT2438600RNL",
"Status": {
"Health": "OK",
"State": "Enabled"
}
}
```

サードパーティ アダプタの温度詳細の表示

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Chassis/chassis/Sensors/temperature_TEMP_OCP
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Chassis/chassis/Sensors/temperature_TEMP_OCP",
"@odata.type": "#Sensor.v1_2_0.Sensor",
"Id": "temperature_TEMP_OCP",
"Name": "TEMP OCP",
"Oem": {
"Ami": {
"SensorThreshold": {
"@odata.id": "/redfish/v1/Chassis/chassis/Sensors/Oem/Threshold/temperature_TEMP_OCP"
}
}
},
"PhysicalContext": "SystemBoard",
"Reading": 40.0,
"ReadingRangeMax": 127.0,
"ReadingRangeMin": 0.0,
"ReadingType": "Temperature",
"ReadingUnits": "Cel",
"Status": {
"Health": "OK",
"State": "Enabled"
},
"Thresholds": {
"UpperCaution": {
"Reading": 105.0
},
"UpperCritical": {
"Reading": 108.0
}
}
}
```


サードパーティ アダプタのポートステータス詳細の表示

リクエスト

```
curl -k -u *username*:*password* https://10.10.10.10/redfish/v1/Chassis/
chassis/NetworkAdapters/OCP_NIC/NetworkPorts/NetworkPort_0
```

レスポンス

リンクダウン


```
{
"@odata.id":
"/redfish/v1/Chassis/chassis/NetworkAdapters/OCP_NIC/NetworkPorts/NetworkPort_0",
```

```
"@odata.type": "#NetworkPort.v1_2_3.NetworkPort",
"AssociatedNetworkAddresses": [
"30:3E:A7:1E:A0:BC"
],
"CurrentLinkSpeedMbps": 0,
"Description": "A network port represents a discrete physical port capable of connecting
 to a network",
"EEEEnabled": false,
"Id": "NetworkPort_0",
"LinkStatus": "Down",
"MaxFrameSize": 0,
"Name": "NetworkPort_0",
"NumberDiscoveredRemotePorts": 0,
"PortMaximumMTU": 0,
"SignalDetected": false,
"Status": {
"Health": "OK",
"State": "Disabled"
},
"SupportedLinkCapabilities": [
{
"LinkNetworkTechnology": "Ethernet"
}
],
"WakeOnLANEnabled": false
}
```


リンクアップ


```
{
"@odata.id":
"/redfish/v1/Chassis/chassis/NetworkAdapters/OCP_NIC/NetworkPorts/NetworkPort_0",
"@odata.type": "#NetworkPort.v1_2_3.NetworkPort",
"AssociatedNetworkAddresses": [
"30:3E:A7:1F:4B:18"
],
"CurrentLinkSpeedMbps": 1024,
"Description": "A network port represents a discrete physical port capable of connecting
 to a network",
"EEEEnabled": false,
"Id": "NetworkPort_0",
"LinkStatus": "Up",
"MaxFrameSize": 0,
"Name": "NetworkPort_0",
"NumberDiscoveredRemotePorts": 0,
"PortMaximumMTU": 0,
"SignalDetected": true,
"Status": {
"Health": "OK",
"State": "Enabled"
},
"SupportedLinkCapabilities": [
{
"LinkNetworkTechnology": "Ethernet"
}
],
"WakeOnLANEnabled": false
}
```

GPU テレメトリ データのサポート

リクエスト

```
curl -k -u *username*:*password*
https://10.10.10.10/redfish/v1/Systems/system/Processors/GPU_5/ProcessorMetrics
```

レスポンス


```
{
"@odata.id": "/redfish/v1/Systems/system/Processors/GPU_5/ProcessorMetrics",
"@odata.type": "#ProcessorMetrics.v1_6_1.ProcessorMetrics",
"CacheMetricsTotal": {
"LifeTime": {
"CorrectableECCErrorCount": 0,
"UncorrectableECCErrorCount": 0
}
},
"CoreVoltage": {
"DataSourceUri": "/redfish/v1/Chassis/GPU_5/Sensors/GPU_5_Voltage_0",
"Reading": 0.685
},
"Id": "ProcessorMetrics",
"Name": "GPU_5 Processor Metrics",
"Oem": {
"Nvidia": {
"@odata.type": "#NvidiaProcessorMetrics.v1_4_0.NvidiaGPUProcessorMetrics",
"PCIeRXBytes": 52751889,
"PCIeTXBytes": 3428102207,
"SMUtilizationPercent": 0.0,
"ThrottleReasons": [
"NA"
]
}
},
"PCIeErrors": {
"CorrectableErrorCount": 0,
"FatalErrorCount": 0,
"L0ToRecoveryCount": 5,
"NAKReceivedCount": 0,
"NAKSentCount": 0,
"NonFatalErrorCount": 0,
"ReplayCount": 0,
"ReplayRolloverCount": 0
}
}
```

翻訳について
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