



リリース 4.2 でサポートされる C シリーズ サーバーの Cisco IMC REST API の例

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Redfish セッションの作成

Redfish セッションの作成

Redfish セッションの作成をリクエストします。

```
curl -v -k https://10.10.10.10/redfish/v1/SessionService/Sessions -XPOST -d '{"UserName": "admin",
```

```
"Password": "password"
}'
```

応答

```
< HTTP/1.1 201
< Server: webservers
< Date: Sun, 31 May 2020 16:29:03 GMT
< Content-Type: application/json
< Content-Length: 212
< Connection: keep-alive
< Location: /redfish/v1/SessionService/Sessions/1
< X-Auth-Token: b14b5dbe5fbb3bb14e5bbe54df51b84
< Cache-Control: no-cache
< OData-Version: 4.0
<
{
  "@odata.id": "/redfish/v1/SessionService/Sessions/1",
  "Id": "1",
  "Name": "User Session #1",
  "Description": "Redfish session for user admin",
  "UserName": "admin",
  "@odata.type": "#Session.v1_1_1.Session"
}
```

セッション Cookie の使用

セッション Cookie を使用したリクエスト :

```
curl -k https://10.10.10.10/redfish/v1/SessionService/Sessions/1 -H
"X-Auth-Token:b14b5dbe5fbb3bb14e5bbe54df51b84"
```

応答

```
{
  "@odata.id": "/redfish/v1/SessionService/Sessions/1",
  "@odata.type": "#Session.v1_1_1.Session",
  "@odata.context": "/redfish/v1/$metadata#Session.Session",
  "Oem": {
    "Cisco": {
      "SessionType": "redfish",
      "RemoteIP": "10.10.10.11"
    }
  },
  "Id": "1",
  "Description": "redfish session for user admin",
  "Name": "User Session #1",
  "UserName": "admin"
}
```

Cisco IMC ユーザー セッションの取得

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 admin:password https://10.10.10.10/redfish/v1/SessionService/Sessions
```

応答

```
{
  "@odata.id": "/redfish/v1/SessionService/Sessions",
  "@odata.context": "/redfish/v1/$metadata#SessionService/Sessions",
}
```

```
"@odata.type": "#SessionCollection.SessionCollection",
>Description": "Collection of Sessions",
>Name": "Session Collection",
>Members": [{
>  "@odata.id": "/redfish/v1/SessionService/Sessions/1"
>}],
>Members@odata.count": 1
}
```

特定のセッションの詳細を取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/SessionService/Sessions/1
```

応答

```
{
>@odata.id": "/redfish/v1/SessionService/Sessions/1",
>@odata.context": "/redfish/v1/$metadata#SessionService/Sessions/Members/$entity",
>@odata.type": "#Session.v1_1_1.Session",
>Oem": {
>  "Cisco": {
>    "SessionType": "webgui",
>    "RemoteIP": "10.65.50.218"
>  }
>},
>"Id": "1",
>"Description": "webgui session for user admin",
>"Name": "User Session #1",
>"UserName": "admin"
>}
}
```

サーバの要約情報とホストの電源状態の取得

サーバーの詳細を取得するリクエスト :

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP21330G5B
```

レスポンス

```
{
>@odata.id": "/redfish/v1/Systems/WZP21330G5B",
>@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity",
>@odata.type": "#ComputerSystem.v1_7_0.ComputerSystem",
>Processors": {
>  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors"
>},
>"SimpleStorage": {
>  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SimpleStorage"
>},
>"Storage": {
>  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Storage"
>},
>"Memory": {
>  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory"
>},
>"MemoryDomains": {
>  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/MemoryDomains"
>},
>"NetworkInterfaces": {
>  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/NetworkInterfaces"
>}
}
```

```

},
"Bios": {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Bios"
},
"SecureBoot": {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SecureBoot"
},
"EthernetInterfaces": {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces"
},
"LogServices": {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/LogServices"
},
"Links": {
  "Chassis": [{
    "@odata.id": "/redfish/v1/Chassis/1"
  }],
  "CooledBy": [{
    "@odata.id": "/redfish/v1/Chassis/1/Thermal"
  }],
  "ManagedBy": [{
    "@odata.id": "/redfish/v1/Managers/CIMC"
  }],
  "PoweredBy": [{
    "@odata.id": "/redfish/v1/Chassis/1/Power"
  }]
},
"SerialNumber": "WZP21330G5B",
"Boot": {
  "BootSourceOverrideTarget": "None",
  "BootSourceOverrideTarget@Redfish.AllowableValues": ["None", "Pxe",
"Floppy", "Cd", "Hdd", "BiosSetup", "Diags"],
  "BootSourceOverrideEnabled@Redfish.AllowableValues": ["Once", "Continuous",
"Disabled"],
  "BootSourceOverrideEnabled": "Disabled"
},
"Id": "WZP21330G5B",
"AssetTag": "Test assetTagRedfish",
"PowerState": "On",
"SystemType": "Physical",
"ProcessorSummary": {
  "Model": "Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz",
  "Count": 2
},
"HostName": "test-hostname-kr-webcimc",
"MemorySummary": {
  "TotalSystemMemoryGiB": 64,
  "Status": {
    "HealthRollup": "OK",
    "Health": "OK"
  }
},
"PCIeDevices@odata.count": 6,
"PCIeFunctions@odata.count": 6,
>Description": "PatchName",
"UUID": "1C61EBC6-8E10-4A9B-90CE-A4C03913EA56",
>Status": {
  "State": "Enabled",
  "Health": "OK"
},
"PCIeDevices": [{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/1"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/2"
}

```

```

    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/FRONT-NVME-2"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/MLOM"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/MRAID"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/L"
    }
  ]],
  "Name": "UCS C220 M5L",
  "HostWatchdogTimer": {
    "Status": {
      "State": "Enabled"
    },
    "WarningAction": "None",
    "FunctionEnabled": true,
    "TimeoutAction": "ResetSystem"
  },
  "PCIeFunctions": [
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/1"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/2"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/FRONT-NVME-2"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MLOM"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MRAID"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/L"
    }
  ]],
  "Oem": {
    "Cisco": {
      "PostCompletionStatus": true,
      "SystemEffectiveMemory": 64,
      "SystemEffectiveSpeed": 2400
    }
  },
  "TrustedModules": [
    {
      "InterfaceType": "TPM2_0",
      "InterfaceTypeSelection": "BiosSetting",
      "FirmwareVersion": "2.0",
      "Status": {
        "Health": "OK"
      }
    }
  ]],
  "PowerRestorePolicy": "LastState",
  "Manufacturer": "Cisco Systems Inc",
  "IndicatorLED": "Off",
  "Model": "UCSC-C220-M5L",
  "BiosVersion": "C220M5.4.1.1.61.0504202214",
  "Actions": {
    "#ComputerSystem.Reset": {
      "target": "/redfish/v1/Systems/WZP21330G5B/Actions/ComputerSystem.Reset",
      "ResetType@Redfish.AllowableValues": ["On", "ForceOff", "GracefulShutdown",
      "GracefulRestart", "ForceRestart", "Nmi", "PowerCycle"]
    }
  }
}

```

Cisco IMC のファームウェア バックアップ イメージのアクティブ化

バックアップ イメージのアクティブ化のリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Actions/Oem/CiscoUCSExtensions.BmcFwActivate -XPOST -d '{}'
```

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。

サーバの電源装置の詳細の取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/Power
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Chassis/1/Power",
  "@odata.context": "/redfish/v1/$metadata#Chassis/Members/$entity/Power",
  "@odata.type": "#Power.v1_5_1.Power",
  "PowerControl": [{
    "PhysicalContext": "PowerSupply",
    "PowerMetrics": {
      "MinConsumedWatts": 223,
      "AverageConsumedWatts": 289,
      "MaxConsumedWatts": 302
    },
    "MemberId": "1",
    "PowerLimit": {
      "LimitException": "NoAction"
    },
    "PowerConsumedWatts": 270,
    "@odata.id": "/redfish/v1/Chassis/1/Power#/PowerControl/1"
  }],
  "Voltages": [{
    "PhysicalContext": "PowerSupply",
    "SensorNumber": 45,
    "MemberId": "1",
    "@odata.id": "/redfish/v1/Chassis/1/Power#/Voltages/PSU1_VOUT",
    "Status": {
      "State": "Enabled",
      "Health": "OK"
    },
    "UpperThresholdCritical": 14,
    "Name": "PSU1_VOUT",
    "ReadingVolts": 12.2
  }, {
    "PhysicalContext": "PowerSupply",
    "SensorNumber": 51,
```



```

    "MemberId": "2",
    "@odata.id": "/redfish/v1/Chassis/1/Power#/Voltages/PSU2_VOUT",
    "Status": {
      "State": "Enabled",
      "Health": "OK"
    },
    "UpperThresholdCritical": 14,
    "Name": "PSU2_VOUT",
    "ReadingVolts": 12.2
  }, {
    "@odata.id": "/redfish/v1/Chassis/1/Power#/Voltages/P12V",
    "Status": {
      "State": "Enabled",
      "Health": "OK"
    },
    "SensorNumber": 213,
    "Name": "P12V",
    "PhysicalContext": "PowerSupply",
    "MemberId": "3",
    "ReadingVolts": 11.89,
    "UpperThresholdCritical": 13.166,
    "LowerThresholdCritical": 10.788
  }, {
    "@odata.id": "/redfish/v1/Chassis/1/Power#/Voltages/P3V_BAT_SCALED",
    "Status": {
      "State": "Enabled",
      "Health": "OK"
    },
    "SensorNumber": 209,
    "Name": "P3V_BAT_SCALED",
    "PhysicalContext": "PowerSupply",
    "MemberId": "4",
    "ReadingVolts": 3.026,
    "UpperThresholdCritical": 3.588,
    "LowerThresholdCritical": 2.543
  }
}],
"Id": "Power",
"PowerSupplies": [{
  "SerialNumber": "LIT21302259",
  "InputRanges": [{
    "InputType": "AC",
    "OutputWattage": 1050,
    "MaximumFrequencyHz": 63,
    "MaximumVoltage": 264,
    "MinimumVoltage": 90,
    "MinimumFrequencyHz": 47
  }],
  "FirmwareVersion": "10062016",
  "@odata.id": "/redfish/v1/Chassis/1/Power#/PowerSupplies/PSU1",
  "PowerOutputWatts": 116,
  "LineInputVoltage": 233,
  "Name": "PSU1",
  "Status": {
    "State": "Enabled"
  },
  "PowerInputWatts": 139,
  "Manufacturer": "Cisco Systems Inc",
  "LastPowerOutputWatts": 116,
  "MemberId": "1",
  "PartNumber": "341-0638-02",
  "PowerSupplyType": "AC",
  "Model": "PS-2112-9S-LF",
  "SparePartNumber": "341-0638-02"
}]

```

```

    }, {
      "SerialNumber": "LIT213347UK",
      "InputRanges": [{
        "InputType": "AC",
        "OutputWattage": 1050,
        "MaximumFrequencyHz": 63,
        "MaximumVoltage": 264,
        "MinimumVoltage": 90,
        "MinimumFrequencyHz": 47
      }],
      "FirmwareVersion": "10062016",
      "@odata.id": "/redfish/v1/Chassis/1/Power#/PowerSupplies/PSU2",
      "PowerOutputWatts": 134,
      "LineInputVoltage": 234,
      "Name": "PSU2",
      "Status": {
        "State": "Enabled"
      },
      "PowerInputWatts": 150,
      "Manufacturer": "Cisco Systems Inc",
      "LastPowerOutputWatts": 134,
      "MemberId": "2",
      "PartNumber": "341-0638-02",
      "PowerSupplyType": "AC",
      "Model": "PS-2112-9S-LF",
      "SparePartNumber": "341-0638-02"
    }],
    "Name": "Power",
    "Description": "Power"
  }
}

```

SNMP 設定の詳細の取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol
```

レスポンス

```

{
  "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/NetworkProtocol",
  "@odata.type": "#ManagerNetworkProtocol.v1_4_1.ManagerNetworkProtocol",
  "KVMIP": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "SNMP": {
    "ProtocolEnabled": true,
    "Port": 161
  },
  "Id": "ManagerNetworkProtocol",
  "Oem": {
    "Cisco": {
      "KVMConfiguration": {
        "VideoEncryption": "Enabled",
        "LocalServerVideo": "Enabled",
        "MaxConcurrentSessions": 4
      }
    }
  }
}

```

```
    }
  },
  "NTP": {
    "ProtocolEnabled": true,
    "Port": 123,
    "NTPServers": ["ab", "GH", "fgf", "vfv"]
  },
  "Name": "Manager Network Protocol",
  "DHCPv6": {
    "ProtocolEnabled": false,
    "Port": null
  },
  "HTTPS": {
    "ProtocolEnabled": true,
    "Port": 443,
    "Certificates": {
      "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol/HTTPS/Certificates/1"
    }
  },
  "HostName": "test-hostname-kr-webcimc",
  "DHCP": {
    "ProtocolEnabled": false,
    "Port": null
  },
  "SSH": {
    "ProtocolEnabled": true,
    "Port": 22
  },
  "IPMI": {
    "ProtocolEnabled": true,
    "Port": 623
  },
  "HTTP": {
    "ProtocolEnabled": true,
    "Port": 80
  },
  "VirtualMedia": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "Description": "Manager Network Service"
}
```

サーバ電源の再投入

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP21330G5B/Actions/ComputerSystem.Reset -XPOST -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せん。

トラップの受信者の SNMP 構成を取得する

構成された **SNMP** トラップを取得するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/EventService/Subscriptions
```

応答

```
{
  "@odata.id": "/redfish/v1/EventService/Subscriptions",
  "@odata.type": "#EventDestinationCollection.EventDestinationCollection",
  "@odata.context":
"/redfish/v1/$metadata#EventDestinationCollection.EventDestinationCollection",
  "Description": "List of Event subscriptions",
  "Name": "Event Subscriptions Collection",
  "Members": [{
    "@odata.id": "/redfish/v1/EventService/Subscriptions/SNMP_1"
  }, {
    "@odata.id": "/redfish/v1/EventService/Subscriptions/SNMP_2"
  }, {
    "@odata.id": "/redfish/v1/EventService/Subscriptions/SNMP_3"
  }],
  "Members@odata.count": 3
}
```

個別に構成された **SNMP** トラップを取得するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/EventService/Subscriptions/SNMP_1
```

応答

```
{
  "@odata.id": "/redfish/v1/EventService/Subscriptions/SNMP_1",
  "@odata.type": "#EventDestination.v1_7_0.EventDestination",
  "@odata.context": "/redfish/v1/$metadata#EventDestination.EventDestination",
  "Description": "Event Subscription Details",
  "Destination": "snmp://admin@10.0.0.0:162",
  "Protocol": "SNMPv3",
  "SubscriptionType": "SNMPTrap",
  "Context": null,
  "Id": "SNMP_1",
  "Name": "EventSubscription SNMP_1",
}
```

BIOS トークンの取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP21330G5B/Bios
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Bios",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Bios",
}
```

```
"@odata.type": "#Bios.v1_0_4.Bios",
"Id": "BiosToken",
"AttributeRegistry": "CiscoBiosAttributeRegistry.v1_0_0",
"Attributes": {
  "ProcessorCMCI": "Enabled",
  "IMCInterleave": "1-way Interleave",
  "OSBootWatchdogTimerTimeout": "10 minutes",
  "MemorySizeLimit": "00000",
  "pSATA": "LSI SW RAID",
  "NUMAOptimize": "Enabled",
  "cdnEnable": "Enabled",
  "UsbPortFront": "Enabled",
  "PartialMirrorValue2": "0000",
  "PcieSlotMLOMLinkSpeed": "Auto",
  "CPUPerformance": "Custom",
  "PCiERASSupport": "Enabled",
  "UsbPortRear": "Enabled",
  "IntelHyperThread": "Enabled",
  "SataModeSelect": "AHCI",
  "PcieSlot1LinkSpeed": "Auto",
  "SelectMemoryRAS": "ADDC Sparing",
  "CoherencySupport": "Disabled",
  "CoreMultiProcessing": "All",
  "PartialMirrorModeConfig": "Disabled",
  "FRB_2": "Enabled",
  "FlowCtrl": "None",
  "PcieSlotN1OptionROM": "Enabled",
  "PwrPerfTuning": "OS",
  "VMDEnable": "Disabled",
  "PatrolScrub": "Enabled",
  "BootPerformanceMode": "Max Performance",
  "WorkLdConfig": "Balanced",
  "PcieSlot1OptionROM": "Enabled",
  "DcuIpPrefetch": "Enabled",
  "PsdCoordType": "HW ALL",
  "ProcessorC6Report": "Disabled",
  "IPV4PXE": "Enabled",
  "PcieSlot2LinkSpeed": "Auto",
  "NetworkStack": "Enabled",
  "PartialMirrorValue4": "0000",
  "PcieSlotMRAIDLinkSpeed": "Auto",
  "PartialMirrorValue1": "0000",
  "PcieSlotN2OptionROM": "Enabled",
  "ATS": "Enabled",
  "OSBootWatchdogTimerPolicy": "Reset",
  "PartialMirrorPercent": "00.00",
  "UsbPortSdCard": "Enabled",
  "UsbPortInt": "Enabled",
  "DCPMMFirmwareDowngrade": "Disabled",
  "UsbPortKVM": "Enabled",
  "KTIIPrefetch": "Enabled",
  "BmeDmaMitigation": "Disabled",
  "PcieSlot2OptionROM": "Enabled",
  "IntelTurboBoostTech": "Enabled",
  "EPPProfile": "Balanced Performance",
  "AutoCCState": "Disabled",
  "EnergyEfficientTurbo": "Disabled",
  "ProcessorC1E": "Disabled",
  "SNC": "Enabled",
  "AdjacentCacheLinePrefetch": "Enabled",
  "CpuHWPM": "HWPM Native Mode",
  "BaudRate": "19.2k",
  "MemoryMappedIOAbove4GB": "Enabled",
  "CpuEngPerfBias": "Balanced Performance",
```

```

    "TPMControl": "Enabled",
    "LomOpromControlPort0": "Enabled",
    "IPV6PXE": "Disabled",
    "LLCPrefetch": "Disabled",
    "CiscoAdaptiveMemTraining": "Disabled",
    "PackageCstateLimit": "C0 C1 State",
    "PcieSlotMLOMOptionROM": "Enabled",
    "LomOpromControlPort1": "Enabled",
    "XPTPrefetch": "Disabled",
    "DcuStreamerPrefetch": "Disabled",
    "IntelVT": "Enabled",
    "PartialMirrorValue3": "0000",
    "TXTSupport": "Disabled",
    "TerminalType": "VT100",
    "ConsoleRedir": "COM 0",
    "CiscoDebugLevel": "Maximum",
    "PcieSlotFrontNvme1LinkSpeed": "Auto",
    "ExecuteDisable": "Enabled",
    "CiscoOpromLaunchOptimization": "Enabled",
    "IntelVTD": "Enabled",
    "AllLomPortControl": "Enabled",
    "PcieSlotMRAIDOptionROM": "Enabled",
    "IntelSpeedSelect": "Base",
    "VgaPriority": "Onboard",
    "UsbLegacySupport": "Enabled",
    "PowerOnPassword": "Disabled",
    "SelectPprType": "Hard PPR",
    "PcieSlotFrontNvme2LinkSpeed": "Auto",
    "LocalX2Apic": "Disabled",
    "HardwarePrefetch": "Enabled",
    "OSBootWatchdogTimer": "Enabled",
    "EnhancedIntelSpeedStep": "Enabled"
  },
  "Name": "BiosToken",
  "Description": "BIOS Configuration Current Settings",
  "Actions": {
    "#Bios.ResetBios": {
      "target": "/redfish/v1/Systems/WZP21330G5B/Bios/Actions/
Bios.ResetBios"
    }
  }
}

```

ミラーリングモードの「Select Memory RAS」BIOS トークンの設定

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>/
Bios -XPATCH -d '{"SelectMemoryRAS":"Mirror Mode 1LM"}'
```

レスポンス

```
{
  "Id": "BiosToken",
  "AttributeRegistry": "CiscoBiosAttributeRegistry.v1_0_0",
  "Attributes": {
    "ProcessorCMCI": "Enabled",

```

```
"IMCInterleave": "1-way Interleave",
"OSBootWatchdogTimerTimeout": "10 minutes",
"MemorySizeLimit": "00000",
"pSATA": "LSI SW RAID",
"NUMAOptimize": "Enabled",
"cdnEnable": "Enabled",
"UsbPortFront": "Enabled",
"PartialMirrorValue2": "0000",
"PcieSlotMLOMLinkSpeed": "Auto",
"CPUPerformance": "Custom",
"PCIERASSupport": "Enabled",
"UsbPortRear": "Enabled",
"IntelHyperThread": "Enabled",
"SataModeSelect": "AHCI",
"PcieSlot1LinkSpeed": "Auto",
"SelectMemoryRAS": " Mirror Mode 1LM ",
"CoherencySupport": "Disabled",
"CoreMultiProcessing": "All",
"PartialMirrorModeConfig": "Disabled",
"FRB_2": "Enabled",
"FlowCtrl": "None",
"PcieSlotN1OptionROM": "Enabled",
"PwrPerfTuning": "OS",
"VMDEnable": "Disabled",
"PatrolScrub": "Enabled",
"BootPerformanceMode": "Max Performance",
"WorkLdConfig": "Balanced",
"PcieSlot1OptionROM": "Enabled",
"DcuIpPrefetch": "Enabled",
"PsdCoordType": "HW ALL",
"ProcessorC6Report": "Disabled",
"IPV4PXE": "Enabled",
"PcieSlot2LinkSpeed": "Auto",
"NetworkStack": "Enabled",
"PartialMirrorValue4": "0000",
"PcieSlotMRAIDLinkSpeed": "Auto",
"PartialMirrorValue1": "0000",
"PcieSlotN2OptionROM": "Enabled",
"ATS": "Enabled",
"OSBootWatchdogTimerPolicy": "Reset",
"PartialMirrorPercent": "00.00",
"UsbPortSdCard": "Enabled",
"UsbPortInt": "Enabled",
"DCPMMFirmwareDowngrade": "Disabled",
"UsbPortKVM": "Enabled",
"KTIPrefetch": "Enabled",
"BmeDmaMitigation": "Disabled",
"PcieSlot2OptionROM": "Enabled",
"IntelTurboBoostTech": "Enabled",
"EPPProfile": "Balanced Performance",
"AutoCCState": "Disabled",
"EnergyEfficientTurbo": "Disabled",
"ProcessorC1E": "Disabled",
"SNC": "Enabled",
"AdjacentCacheLinePrefetch": "Enabled",
"CpuHWPM": "HWPM Native Mode",
"BaudRate": "19.2k",
"MemoryMappedIOAbove4GB": "Enabled",
"CpuEngPerfBias": "Balanced Performance",
"TPMControl": "Enabled",
"LomOpromControlPort0": "Enabled",
"IPV6PXE": "Disabled",
"LLCPrefetch": "Disabled",
"CiscoAdaptiveMemTraining": "Disabled",
```

BIOS トークンのデフォルト値の取得

```

    "PackageCstateLimit": "C0 C1 State",
    "PcieSlotMLOMOptionROM": "Enabled",
    "LomOpromControlPort1": "Enabled",
    "XPTPrefetch": "Disabled",
    "DcuStreamerPrefetch": "Disabled",
    "IntelVT": "Enabled",
    "PartialMirrorValue3": "0000",
    "TXTSupport": "Disabled",
    "TerminalType": "VT100",
    "ConsoleRedir": "COM 0",
    "CiscoDebugLevel": "Maximum",
    "PcieSlotFrontNvme1LinkSpeed": "Auto",
    "ExecuteDisable": "Enabled",
    "CiscoOpromLaunchOptimization": "Enabled",
    "IntelVTD": "Enabled",
    "AllLomPortControl": "Enabled",
    "PcieSlotMRAIDOptionROM": "Enabled",
    "IntelSpeedSelect": "Base",
    "VgaPriority": "Onboard",
    "UsbLegacySupport": "Enabled",
    "PowerOnPassword": "Disabled",
    "SelectPprType": "Hard PPR",
    "PcieSlotFrontNvme2LinkSpeed": "Auto",
    "LocalX2Apic": "Disabled",
    "HardwarePrefetch": "Enabled",
    "OSBootWatchdogTimer": "Enabled",
    "EnhancedIntelSpeedStep": "Enabled"
  },
  "Name": "BiosToken",
  "Description": "BIOS Configuration Current Settings",
  "Actions": {
    "#Bios.ResetBios": {
      "target": "/redfish/v1/Systems/WZP21330G5B/Bios/Actions/Bios.ResetBios"
    }
  }
}

```

BIOS トークンのデフォルト値の取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Registries/
CiscoBiosAttributeRegistry.v1_0_0/BiosAttributeRegistry.json
```

レスポンス

デフォルト値を含むすべての BIOS トークンの詳細を表示します。次の例は 2 つのトークンのみを示します。

```

{
  "SupportedSystems": [
    {
      "FirmwareVersion": "4.1(1FS4)",
      "ProductName": "UCS C220 M5L",
      "SystemId": "WZP21330G5B"
    }
  ],
  "Id": "BiosAttributeRegistry",
  "OwningEntity": "Cisco Systems Inc.",
}

```



```

    "Name": "BIOS Attribute Registry",
    "@odata.context":
"/redfish/v1/$metadata#Registries/Members/$entity/BiosAttributeRegistry",
    "@odata.type": "#AttributeRegistry.v1_2_1.AttributeRegistry",
    "RegistryPrefix": "CiscoBiosAttributeRegistry.v1_0_0",
    "@odata.id":
"/redfish/v1/Registries/CiscoBiosAttributeRegistry.v1_0_0/BiosAttributeRegistry",
    "RegistryEntries": {
      "Attributes": [
        {
          "DefaultValue": "Enabled",
          "WriteOnly": false,
          "ResetRequired": true,
          "Hidden": false,
          "DisplayName": "Intel Virtualization Technology",
          "IsSystemUniqueProperty": true,
          "AttributeName": "IntelVT",
          "Immutable": false,
          "Value": [
            {
              "ValueName": "Enabled",
              "ValueDisplayName": "Enabled"
            },
            {
              "ValueName": "Disabled",
              "ValueDisplayName": "Disabled"
            }
          ],
          "ReadOnly": false,
          "MinLength": 1,
          "MaxLength": 64,
          "Type": "String"
        },
        {
          "DefaultValue": "Auto",
          "WriteOnly": false,
          "ResetRequired": true,
          "Hidden": false,
          "DisplayName": "IMC Interleaving",
          "IsSystemUniqueProperty": true,
          "AttributeName": "IMCInterleave",
          "Immutable": false,
          "Value": [
            {
              "ValueName": "Auto",
              "ValueDisplayName": "Auto"
            },
            {
              "ValueName": "1-way Interleave",
              "ValueDisplayName": "1-way Interleave"
            },
            {
              "ValueName": "2-way Interleave",
              "ValueDisplayName": "2-way Interleave"
            }
          ],
          "ReadOnly": false,
          "MinLength": 1,
          "MaxLength": 64,
          "Type": "String"
        }
      ],
      "RegistryVersion": "1.0.0",
    }
  ],
  "RegistryVersion": "1.0.0",
}

```

Platform-Default を使用した BIOS パラメータのデフォルト値への設定

```
    "Language": "en"
  }
```

Platform-Default を使用した BIOS パラメータのデフォルト値への設定

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/< SerialNumber>/
Bios -XPATCH -d '{"SelectMemoryRAS":"default"}'
```

レスポンス

```
{
  "Id": "BiosToken",
  "AttributeRegistry": "CiscoBiosAttributeRegistry.v1_0_0",
  "Attributes": {
    "ProcessorCMCI": "Enabled",
    "IMCInterleave": "1-way Interleave",
    "OSBootWatchdogTimerTimeout": "10 minutes",
    "MemorySizeLimit": "00000",
    "pSATA": "LSI SW RAID",
    "NUMAOptimize": "Enabled",
    "cdnEnable": "Enabled",
    "UsbPortFront": "Enabled",
    "PartialMirrorValue2": "0000",
    "PcieSlotMLOMLinkSpeed": "Auto",
    "CPUPerformance": "Custom",
    "PCIeRASSupport": "Enabled",
    "UsbPortRear": "Enabled",
    "IntelHyperThread": "Enabled",
    "SataModeSelect": "AHCI",
    "PcieSlot1LinkSpeed": "Auto",
    "SelectMemoryRAS": "Mirror Mode 1LM",
    "CoherencySupport": "Disabled",
    "CoreMultiProcessing": "All",
    "PartialMirrorModeConfig": "Disabled",
    "FRB_2": "Enabled",
    "FlowCtrl": "None",
    "PcieSlotN1OptionROM": "Enabled",
    "PwrPerfTuning": "OS",
    "VMDEnable": "Disabled",
    "PatrolScrub": "Enabled",
    "BootPerformanceMode": "Max Performance",
    "WorkLdConfig": "Balanced",
    "PcieSlot1OptionROM": "Enabled",
    "DcuIpPrefetch": "Enabled",
    "PsdCoordType": "HW ALL",
    "ProcessorC6Report": "Disabled",
    "IPV4PXE": "Enabled",
    "PcieSlot2LinkSpeed": "Auto",
    "NetworkStack": "Enabled",
    "PartialMirrorValue4": "0000",
    "PcieSlotMRAIDLLinkSpeed": "Auto",
    "PartialMirrorValue1": "0000",
    "PcieSlotN2OptionROM": "Enabled",
    "ATS": "Enabled",
    "OSBootWatchdogTimerPolicy": "Reset",
```

```

"PartialMirrorPercent": "00.00",
"UsbPortSdCard": "Enabled",
"UsbPortInt": "Enabled",
"DCPMMFirmwareDowngrade": "Disabled",
"UsbPortKVM": "Enabled",
"KTIIPrefetch": "Enabled",
"BmeDmaMitigation": "Disabled",
"PcieSlot2OptionROM": "Enabled",
"IntelTurboBoostTech": "Enabled",
"EPPProfile": "Balanced Performance",
"AutoCCState": "Disabled",
"EnergyEfficientTurbo": "Disabled",
"ProcessorClE": "Disabled",
"SNC": "Enabled",
"AdjacentCacheLinePrefetch": "Enabled",
"CpuHWPM": "HWPM Native Mode",
"BaudRate": "19.2k",
"MemoryMappedIOAbove4GB": "Enabled",
"CpuEngPerfBias": "Balanced Performance",
"TPMControl": "Enabled",
"LomOpromControlPort0": "Enabled",
"IPV6PXE": "Disabled",
"LLCPrefetch": "Disabled",
"CiscoAdaptiveMemTraining": "Disabled",
"PackageCstateLimit": "C0 C1 State",
"PcieSlotMLOMOptionROM": "Enabled",
"LomOpromControlPort1": "Enabled",
"XPTPrefetch": "Disabled",
"DcuStreamerPrefetch": "Disabled",
"IntelVT": "Enabled",
"PartialMirrorValue3": "0000",
"TXTSupport": "Disabled",
"TerminalType": "VT100",
"ConsoleRedir": "COM 0",
"CiscoDebugLevel": "Maximum",
"PcieSlotFrontNvme1LinkSpeed": "Auto",
"ExecuteDisable": "Enabled",
"CiscoOpromLaunchOptimization": "Enabled",
"IntelVTD": "Enabled",
"AllLomPortControl": "Enabled",
"PcieSlotMRAIDOptionROM": "Enabled",
"IntelSpeedSelect": "Base",
"VgaPriority": "Onboard",
"UsbLegacySupport": "Enabled",
"PowerOnPassword": "Disabled",
"SelectPprType": "Hard PPR",
"PcieSlotFrontNvme2LinkSpeed": "Auto",
"LocalX2Apic": "Disabled",
"HardwarePrefetch": "Enabled",
"OSBootWatchdogTimer": "Enabled",
"EnhancedIntelSpeedStep": "Enabled"
},
{Name": "BiosToken",
>Description": "BIOS Configuration Current Settings",
>Actions": {
>  "#Bios.ResetBios": {
>    "target": "/redfish/v1/Systems/WZP21330G5B/Bios/Actions
/Bios.ResetBios"
>  }
> }
}
}

```

TFTP を使用した Cisco IMC 構成データのエクスポート

TFTP を使用した CIMC 構成のエクスポートのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/
Actions/Oem/CiscoUCSEExtensions.ExportBmcConfig -XPOST -d '{
  "Protocol": "TFTP",
  "RemoteHostname": "10.10.10.10",
  "RemotePath": "Config.xml",
  "Passphrase": "Cisco"
}'
```

応答

応答は作成済みの非同期タスクへリンクされます。

```
{
  "Messages": [],
  "Id": "55",
  "Name": "Export CIMC Configuration",
  "StartTime": "05/28/2020 15:24:52 IST",
  "TaskState": "Running",
  "@odata.id": "/redfish/v1/TaskService/Tasks/55",
  "@odata.type": "#Task.v1_4_0.Task"
}
```

エクスポート構成タスクのステータスを確認するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/55
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/55",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "55",
  "Name": "Export CIMC Configuration",
  "StartTime": "05/28/2020 15:24:52 IST",
  "EndTime": "05/28/2020 15:25:03 IST",
  "PercentComplete": 100,
  "TaskState": "Completed",
  "TaskStatus": "OK",
  "Messages": [{
    "MessageId": "Base.1.4.Success",
    "Message": "Successfully Completed Request"
  }],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/55"
}
```

TFTP を使用した Cisco IMC 構成データのインポート

TFTP を使用した CIMC 構成のインポートのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/
CIMC/Actions/Oem/CiscoUCSEExtensions.ImportBmcConfig -XPOST -d '{
```

```
"Protocol": "TFTP",
"RemoteHostname": "10.10.10.10",
"RemotePath": "Config.xml",
"Passphrase": "Cisco"
}
```

応答

```
{
  "Messages": [],
  "Id": "57",
  "Name": "Import CIMC Configuration",
  "StartTime": "05/28/2020 15:35:26 IST",
  "TaskState": "Running",
  "@odata.id": "/redfish/v1/TaskService/Tasks/57",
  "@odata.type": "#Task.v1_4_0.Task"
}
```

インポート構成タスクのステータスを確認するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/57
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/57",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "57",
  "Name": "Import CIMC Configuration",
  "StartTime": "05/28/2020 15:35:26 IST",
  "PercentComplete": 6,
  "TaskState": "Running",
  "Messages": [],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/57"
}
```

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

TFTP を使用した CIMC テクニカル サポート データのエクスポートのリクエスト

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

応答

```
{
  "Messages": [],
  "Id": "59",
  "Name": "Technical Support Collection",
  "StartTime": "05/28/2020 15:47:59 IST",
  "TaskState": "Running",
  "@odata.id": "/redfish/v1/TaskService/Tasks/59",
}
```

```
"@odata.type": "#Task.v1_4_0.Task"
}
```

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

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/59
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/59",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "59",
  "Name": "Technical Support Collection",
  "StartTime": "05/28/2020 15:47:59 IST",
  "PercentComplete": 3,
  "TaskState": "Running",
  "Messages": [],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/59"
}
```

CPU 製品 ID の詳細の取得

サーバー上の異なる CPU を取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP21330G5B/Processors
```

応答

```
{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Processors",
  "@odata.type": "#ProcessorCollection.ProcessorCollection",
  "Description": "Collection of Processors for this system",
  "Name": "Processors Collection",
  "Members": [{
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors/CPU2"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors/CPU1"
  }],
  "Members@odata.count": 2
}
```

各 CPU の詳細を取得するリクエスト

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Systems/WZP21330G5B/Processors/CPU1
```

応答

```
{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors/CPU1",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Processors/Members/$entity",
  "@odata.type": "#Processor.v1_5_0.Processor",
  "InstructionSet": "x86-64",
  "TotalThreads": 10,
  "ProcessorArchitecture": "x86",
  "Status": {
```

```

    "State": "Enabled",
    "Health": "OK"
  },
  "ProcessorType": "CPU",
  "Name": "CPU1",
  "ProcessorId": {
    "Step": "4",
    "VendorId": "Intel(R) Corporation",
    "EffectiveModel": "85",
    "EffectiveFamily": "6"
  },
  "TotalEnabledCores": 10,
  "TotalCores": 10,
  "Id": "1",
  "Description": "Intel(R) Xeon(R) Silver 4114 2.20 GHz 85W 10C 13.75MB Cache
DDR4 2400MHz 768GB",
  "Manufacturer": "Intel(R) Corporation",
  "MaxSpeedMHz": 4000,
  "Model": "Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz",
  "Socket": "CPU1"
}

```

IMM/メモリ ユニット製品 ID の詳細の取得

すべてのメモリ ユニットを取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>/Memory/
```

応答

```

{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Memory",
  "@odata.type": "#MemoryCollection.MemoryCollection",
  "Description": "Collection of Memory resource instances for this system",
  "Name": "Memory Collection",
  "Members": [{
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory/DIMM_A1"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory/DIMM_H1"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory/DIMM_G1"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory/DIMM_B1"
  }
  ],
  "Members@odata.count": 4
}

```

特定のメモリ ユニットの詳細を取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>/
Memory/DIMM_G1
```

応答

```

{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory/DIMM_G1",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Memory/Members/$entity",
  "@odata.type": "#Memory.v1_7_0.Memory",

```

```

    "Description": "Computer Memory",
    "Links": {
      "Chassis": {
        "@odata.id": "/redfish/v1/Chassis/1"
      }
    },
    "SerialNumber": "3612D2AF",
    "MemoryType": "DRAM",
    "MemoryDeviceType": "DDR4",
    "Id": "13",
    "DeviceLocator": "DIMM_G1",
    "SecurityCapabilities": {
      "PassphraseCapable": false
    },
    "DataWidthBits": 64,
    "Status": {
      "State": "Enabled",
      "Health": "OK"
    },
    "Name": "DIMM_G1",
    "OperatingMemoryModes": ["Volatile"],
    "MemoryMedia": ["DRAM"],
    "PartNumber": "M393A2G40EB2-CTD",
    "Manufacturer": "0xCE00",
    "OperatingSpeedMhz": 2666,
    "CapacityMiB": 16384,
    "MemoryLocation": {
      "Channel": 0,
      "Slot": 0,
      "Socket": 1
    }
  }
}

```

PCI アダプタ 製品 ID の詳細の取得

PCI アダプタのリスト取得のリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>
```

応答

```

{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity",
  "@odata.type": "#ComputerSystem.v1_7_0.ComputerSystem",
  "Processors": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors"
  },
  "SimpleStorage": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SimpleStorage"
  },
  "Storage": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Storage"
  },
  "Memory": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory"
  },
  "MemoryDomains": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/MemoryDomains"
  },
  "NetworkInterfaces": {

```



```

    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/NetworkInterfaces"
  },
  "Bios": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Bios"
  },
  "SecureBoot": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SecureBoot"
  },
  "EthernetInterfaces": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces"
  },
  "LogServices": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/LogServices"
  },
  "Links": {
    "Chassis": [{
      "@odata.id": "/redfish/v1/Chassis/1"
    }],
    "CooledBy": [{
      "@odata.id": "/redfish/v1/Chassis/1/Thermal"
    }],
    "ManagedBy": [{
      "@odata.id": "/redfish/v1/Managers/CIMC"
    }],
    "PoweredBy": [{
      "@odata.id": "/redfish/v1/Chassis/1/Power"
    }]
  },
  "SerialNumber": "WZP21330G5B",
  "Boot": {
    "BootSourceOverrideTarget": "None",
    "BootSourceOverrideTarget@Redfish.AllowableValues": ["None", "Pxe",
    "Floppy", "Cd", "Hdd", "BiosSetup", "Diags"],
    "BootSourceOverrideEnabled@Redfish.AllowableValues": ["Once", "Continuous",
    "Disabled"],
    "BootSourceOverrideEnabled": "Disabled"
  },
  "Id": "WZP21330G5B",
  "AssetTag": "Test assetTagRedfish",
  "PowerState": "On",
  "SystemType": "Physical",
  "ProcessorSummary": {
    "Model": "Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz",
    "Count": 2
  },
  "HostName": "test-hostname-kr-webcimc",
  "MemorySummary": {
    "TotalSystemMemoryGiB": 64,
    "Status": {
      "HealthRollup": "OK",
      "Health": "OK"
    }
  },
  "PCIeDevices@odata.count": 6,
  "PCIeFunctions@odata.count": 6,
  "Description": "PatchName",
  "UUID": "1C61EBC6-8E10-4A9B-90CE-A4C03913EA56",
  "Status": {
    "State": "Enabled",
    "Health": "OK"
  },
  "PCIeDevices": [{
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/1"
  }], {

```

```

    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/2"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/FRONT-NVME-2"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/MLOM"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/MRAID"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/L"
  }
}],
"Name": "UCS C220 M5L",
"HostWatchdogTimer": {
  "Status": {
    "State": "Enabled"
  },
  "WarningAction": "None",
  "FunctionEnabled": true,
  "TimeoutAction": "ResetSystem"
},
"PCIeFunctions": [{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/1"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/FRONT-NVME-2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MLOM"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MRAID"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/L"
}
}],
"Oem": {
  "Cisco": {
    "PostCompletionStatus": true,
    "SystemEffectiveMemory": 64,
    "SystemEffectiveSpeed": 2400
  }
},
"TrustedModules": [{
  "InterfaceType": "TPM2_0",
  "InterfaceTypeSelection": "BiosSetting",
  "FirmwareVersion": "2.0",
  "Status": {
    "Health": "OK"
  }
}
}],
"PowerRestorePolicy": "LastState",
"Manufacturer": "Cisco Systems Inc",
"IndicatorLED": "Off",
"Model": "UCSC-C220-M5L",
"BiosVersion": "C220M5.4.1.1.61.0504202214",
"Actions": {
  "#ComputerSystem.Reset": {
    "target": "/redfish/v1/Systems/WZP21330G5B/Actions/ComputerSystem.Reset",
    "ResetType@Redfish.AllowableValues": ["On", "ForceOff", "GracefulShutdown", "GracefulRestart", "ForceRestart", "Nmi", "PowerCycle"]
  }
}
}

```

各 PCI アダプタの情報を取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>/
PCIEFunctions/MLOM
```

応答

```
{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIEFunctions/MLOM",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/PCIEFunctions/
Members/$entity",
  "@odata.type": "#PCIEFunction.v1_2_1.PCIEFunction",
  "Links": {
    "PCIeDevice": {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/MLOM"
    },
    "EthernetInterfaces@odata.count": 0,
    "StorageControllers@odata.count": 0,
    "Drives@odata.count": 0,
    "NetworkDeviceFunctions": [
      {
        "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/MLOM/
NetworkDeviceFunctions/eth0"
      }, {
        "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/MLOM/
NetworkDeviceFunctions/eth1"
      }, {
        "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/MLOM/
NetworkDeviceFunctions/fc0"
      }, {
        "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/MLOM/
NetworkDeviceFunctions/fc1"
      }
    ],
    "NetworkDeviceFunctions@odata.count": 4
  },
  "VendorId": "0x1137",
  "Description": "This gives information of PCIEFunctions on the system",
  "DeviceId": "0x0042",
  "Id": "MLOM",
  "SubsystemId": "0x0218",
  "Name": "Cisco UCS VIC 1457 MLOM",
  "SubsystemVendorId": "0x1137"
}
```

Cisco IMC ファームウェアのアップデート

CIMC ファームウェア アップデートの開始リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/UpdateService/
Actions/UpdateService.SimpleUpdate -XPOST -d '{
  "Targets": ["/redfish/v1/UpdateService/FirmwareInventory/CIMC"],
  "TransferProtocol": "SCP",
  "ImageURI": "10.10.10.10:/path/to/bin/file.bin",
  "Username": "username",
  "Password": "password"
}'
```

応答

応答は作成済みの非同期タスクヘリンクされます。

```
{
  "Messages": [],
  "Id": "53",
  "Name": "BMC Firmware Update",
  "StartTime": "05/28/2020 14:29:39 IST",
  "TaskState": "Running",
  "@odata.id": "/redfish/v1/TaskService/Tasks/53",
  "@odata.type": "#Task.v1_4_0.Task"
}
```

ファームウェアのアップデート状況を確認するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/53
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/53",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "53",
  "Name": "BMC Firmware Update",
  "StartTime": "05/28/2020 14:29:39 IST",
  "PercentComplete": 5,
  "TaskState": "Running",
  "Messages": [],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/53"
}
```

BIOS ファームウェアの更新

BIOS ファームウェアの更新開始のリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/UpdateService/
Actions/UpdateService.SimpleUpdate -XPOST -d '{
  "Targets": ["/redfish/v1/UpdateService/FirmwareInventory/BIOS"],
  "TransferProtocol": "SCP",
  "ImageURI": "10.10.10.10:/path/to/Bios/file/bios.cap",
  "Username": "username",
  "Password": "password"
}'
```

応答

```
{
  "Messages": [],
  "Id": "54",
  "Name": "BIOS Firmware Update",
  "StartTime": "05/28/2020 14:39:14 IST",
  "TaskState": "Running",
  "@odata.id": "/redfish/v1/TaskService/Tasks/54",
  "@odata.type": "#Task.v1_4_0.Task"
}
```

ファームウェアの更新状況を確認するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/54
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/54",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "54",
  "Name": "BIOS Firmware Update",
  "StartTime": "05/28/2020 14:39:14 IST",
  "PercentComplete": 29,
  "TaskState": "Running",
  "Messages": [],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/54"
}
```

VIC アダプタ パラメータの設定

VIC のネットワーク アダプタの取得



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

要求

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7
```

応答

```
{
  "Id": "UCSC-PCIE-C25Q-04_FCH233770L7",
  "Name": "UCS VIC 1455",
  "Manufacturer": "Cisco Systems Inc",
  "SerialNumber": "FCH233770L7",
  "Model": "UCSC-PCIE-C25Q-04",
  "PartNumber": "73-18418-06",
  "Actions": {
    "#NetworkAdapter.ResetSettingsToDefault": {
      "target": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/Actions/NetworkAdapter.ResetSettingsToDefault"
    }
  },
  "Controllers": [
    {
      "FirmwarePackageVersion": "5.1 (2.30)",
      "Links": {
        "NetworkPorts": [
          {
            "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1"
          },
          {
            "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-2"
          },
          {
            "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-3"
          },
          {
            "@odata.id": "/redfish/v1/Chassis/1/"
          }
        ]
      }
    }
  ]
}
```

```

NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-4"
    }],
    "NetworkPorts@odata.count": 4,
    "NetworkDeviceFunctions": [{
        "@odata.id": "/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0"
    }, {
        "@odata.id": "/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth1"
    }, {
        "@odata.id": "/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc0"
    }, {
        "@odata.id": "/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc1"
    }
    ]],
    "NetworkDeviceFunctions@odata.count": 4
},
"ControllerCapabilities": {
    "NetworkPortCount": 4,
    "NetworkDeviceFunctionCount": 4
},
"Location": {
    "PartLocation": {
        "LocationType": "Slot",
        "ServiceLabel": "SlotID:1"
    }
}
}],
"Oem": {
    "Cisco": {
        "@odata.type": "#CiscoUCSExtensions.v1_0_0.CiscoUCSExtensions",
        "BaseMac": "5C:71:0D:04:44:B4",
        "VicConfiguration": {
            "LldpEnabled": true,
            "NivEnabled": false,
            "FipEnabled": true,
            "PhysicalNicModeEnabled": false,
            "AzureQosEnabled": false,
            "PortChannelEnabled": true,
            "ConfigurationPending": false
        }
    }
},
"@odata.id":
"/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7",
"@odata.type": "#NetworkAdapter.v1_2_0.NetworkAdapter",
"@odata.context": "/redfish/v1/$metadata#NetworkAdapter.NetworkAdapter",
"NetworkDeviceFunctions": {
    "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions"
},
"NetworkPorts": {
    "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts"
},
"Assembly": {
    "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/Assembly"
}
}

```

ネットワーク アダプタ設定の構成

```
curl -X PATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/ -d '{"Oem":{"Cisco":{"VicConfiguration":{"LldpEnabled":false}}}}'

curl -X PATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/ -d '{"Oem":{"Cisco":{"VicConfiguration":{"FipEnabled":false}}}}'

curl -X PATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/ -d '{"Oem":{"Cisco":{"VicConfiguration":{"PortChannelEnabled":false}}}}'

curl -X PATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/ -d '{"Oem":{"Cisco":{"VicConfiguration":{"NivEnabled":true}}}}'

curl -X PATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/ -d '{"Oem":{"Cisco":{"VicConfiguration":{"PhysicalNicModeEnabled":true}}}}'

curl -X PATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/ -d '{"Oem":{"Cisco":{"VicConfiguration":{"AzureQosEnabled":false}}}}'

curl -X PATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/ -d '{"Oem":{"Cisco":{"VicConfiguration":{"GeneveOptionsEnabled":false}}}}'
```

VIC アダプタのアップリンク ポートの詳細の取得



- (注) この要求は Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

NetworkPort コレクションの取得

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts
{
  "Members": [
    {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-2"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-3"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-4"
    }
  ],
  "Members@odata.count": 4,
}
```

アダプタのイーサネットインターフェイスの詳細の取得

```

      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts",
      "@odata.type": "#NetworkPortCollection.NetworkPortCollection",
      "@odata.context": "/redfish/v1/$metadata#NetworkPortCollection.
NetworkPortCollection",
      "Description": "Collection of NetworkPort resource instances for this system",
      "Name": "NetworkPort Collection"
    }
  }
}

```

個々のネットワークポートの詳細の取得

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1
{
  "Id": "Port-1",
  "Name": "Port-1",
  "PhysicalPortNumber": "1",
  "LinkStatus": "Down",
  "AssociatedNetworkAddresses": ["5C:71:0D:04:44:B8"],
  "Oem": {
    "Cisco": {
      "@odata.type": "#CiscoUCSExtensions.v1_0_0.CiscoUCSExtensions",
      "VicPort": {
        "AdminFecMode": "cl91",
        "OperFecMode": "Off",
        "ConnectorPresent": false,
        "ConnectorType": "N/A",
        "ConnectorVendorName": "N/A",
        "ConnectorPartNumber": "N/A",
        "ConnectorPartRevision": "N/A",
        "ConnectorVendorPid": "N/A"
      }
    }
  },
  "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1",
  "@odata.type": "#NetworkPort.v1_2_0.NetworkPort",
  "@odata.context": "/redfish/v1/$metadata#NetworkPort.NetworkPort"
}

```

ネットワークポート設定の修正

```

curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1 -d '{"Oem":
{"Cisco":{"VicPort":{"AdminFecMode":"Off"}}}}'

```

アダプタのイーサネットインターフェイスの詳細の取得



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

NetworkDeviceFunctions コレクションを取得して、すべてのイーサネットインターフェイスとアダプタ ファイバチャネル インターフェイスを一覧表示します。

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions
{
  "Members": [
    {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth1"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc0"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc1"
    }
  ],
  "Members@odata.count": 4,
  "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions",
  "@odata.type": "#NetworkDeviceFunctionCollection.NetworkDeviceFunctionCollection",
  "@odata.context": "/redfish/v1/$metadata#NetworkDeviceFunctionCollection",
  "Description": "Collection of NetworkDeviceFunction resource instances for this system",
  "Name": "NetworkDeviceFunction Collection"
}
```

個々のイーサネット インターフェイスの取得

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0
{
  "Id": "eth0",
  "Name": "eth0",
  "NetDevFuncType": "Ethernet",
  "NetDevFuncCapabilities": ["Ethernet", "iSCSI"],
  "Ethernet": {
    "MACAddress": "5C:71:0D:04:44:C0",
    "MTUSize": 1500,
    "VLAN": {
      "VLANEnable": false
    }
  },
  "BootMode": "Disabled",
  "AssignablePhysicalPorts": [
    {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-3"
    }
  ],
  "AssignablePhysicalPorts@odata.count": 2,
  "Links": {
    "PhysicalPortAssignment": {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1"
    }
  }
},
```

```

"Oem": {
  "Cisco": {
    "@odata.type": "#CiscoUCSEExtensions.v1_0_0.CiscoUCSEExtensions",
    "VnicConfiguration": {
      "UplinkPort": 0,
      "PCIOrder": "0.0",
      "InterruptMode": "Any",
      "VlanMode": "Trunk",
      "Vif": {
        "VifId": 0,
        "VifCookie": 0
      },
      "EthConfiguration": {
        "Cdn": "VIC-1-eth0",
        "TrustedClassOfServiceEnabled": false,
        "CompQueueCount": 5,
        "StandByRecoveryDly": 5,
        "StandByVif": {
          "VifId": 0,
          "VifCookie": 0
        },
        "WorkQueue": {
          "Count": 1,
          "RingSize": 256
        },
        "RecvQueue": {
          "Count": 4,
          "RingSize": 512
        },
        "InterruptProfile": {
          "Count": 8,
          "CoalescingTime": 125,
          "CoalescingType": "Min"
        },
        "Features": {
          "AdvancedFilterEnabled": false,
          "ArfsEnabled": false,
          "NvgreEnabled": false,
          "GroupInterruptEnabled": false,
          "VxlanEnabled": false,
          "Rocev2Enabled": false,
          "VmqEnabled": false,
          "MultiQueueEnabled": false,
          "GeneveEnabled": false
        },
        "OffloadProfile": {
          "TcpLargeReceiveEnabled": true,
          "TcpSegmentEnabled": true,
          "TcpRxChecksumEnabled": true,
          "TcpTxChecksumEnabled": true
        },
        "RssProfile": {
          "RssEnabled": true,
          "RssIpv4HashEnabled": true,
          "RssTcpIpv4HashEnabled": true,
          "RssIpv6HashEnabled": true,
          "RssTcpIpv6HashEnabled": true,
          "RssIpv6ExHashEnabled": false,
          "RssTcpIpv6ExHashEnabled": false,
          "RssUdpIpv4HashEnabled": false,
          "RssUdpIpv6HashEnabled": false
        }
      }
    }
  }
}

```

```

    }
  },
  "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0",
  "@odata.type": "#NetworkDeviceFunction.v1_3_0.NetworkDeviceFunction",
  "@odata.context": "/redfish/v1/$metadata#NetworkDeviceFunction.
NetworkDeviceFunction"
}

```

アダプタのイーサネットインターフェイスの作成



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions -d '{"Id": "eth4",
"NetDevFuncType": "Ethernet", "Oem": {"Cisco": {"VnicConfiguration":
{"PCIOrder": "0.6"}}}}' -XPOST

```



- (注) PCIOrder は xy フォーマットの文字列で、x は PCI デバイス番号 (0 ~ 255、上限はプラットフォームでサポートされる PCI バスの最大数によって異なります)、y は PCI 機能番号 (0 ~ 7) です。

イーサネットインターフェイスのプロパティの変更



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

```

curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Ethernet":
{"MACAddress": "10:12:23:00:00:02", "MTUSize": 1600, "VLAN": {"VLANEnable": true}}}'

curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"BootMode":
"PXE"}'

```

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco": {"VnicConfiguration":{"UplinkPort":1,"PCIOrder":"0.6","InterruptMode":"Msi",
"VlanMode":"Trunk"}}}}'
```



(注) **PCIOrder** は xy フォーマットの文字列です。ここで、x は PCI デバイス番号 (0 ~ 255、上限はプラットフォームでサポートされる PCI バスの最大数によって異なります)、y は PCI 機能番号 (0 ~ 7) です。

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco": {"VnicConfiguration":{"EthConfiguration":{"Cdn":"VIC-MLOM-eth5",
"TrustedClassOfServiceEnabled":true,"CompQueueCount":11,"StandByRecoveryDly":123}}}}}'
```

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco":
{"VnicConfiguration":{"EthConfiguration":{"WorkQueue":{"Count":11,"RingSize":65}}}}}}'
```

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco":
{"VnicConfiguration":{"EthConfiguration":{"RecvQueue":{"Count":11,"RingSize":65}}}}}}'
```

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco": {"VnicConfiguration":{"EthConfiguration":{"InterruptProfile":
{"Count":11,"CoalescingTime":65,"CoalescingType":"Min"}}}}}}'
```

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco": {"VnicConfiguration":{"EthConfiguration":{"Features":
{"AdvancedFilterEnabled":true,"ArfsEnabled":true,"NvgreEnabled":true,
"VxlanEnabled":true,"Rocev2Enabled":false,"VmqEnabled":false}}}}}}'
```

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco": {"VnicConfiguration":{"EthConfiguration":{"OffloadProfile":
{"TcpLargeReceiveEnabled":true,"TcpSegmentEnabled":true,"TcpRxChecksumEnabled":true,
"TcpTxChecksumEnabled":true}}}}}}'
```

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth0 -d '{"Oem":
{"Cisco": {"VnicConfiguration":{"EthConfiguration":{"RssProfile":{"RssEnabled":true,
"RssIpv4HashEnabled":true,"RssTcpIpv4HashEnabled":true,"RssIpv6HashEnabled":true,
"RssTcpIpv6HashEnabled":true,"RssIpv6ExHashEnabled":true,"RssTcpIpv6ExHashEnabled":true,
"RssUdpIpv4HashEnabled":true,"RssUdpIpv6HashEnabled":true}}}}}}}'
```

イーサネット インターフェイスの削除



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

要求

```
curl -XDELETE -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth4
```

アダプタのファイバチャネルインターフェイスの詳細の取得



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

リクエスト

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc0
```

レスポンス

```
{
  "Id": "fc0",
  "Name": "fc0",
  "NetDevFuncType": "FibreChannelOverEthernet",
  "NetDevFuncCapabilities": ["FibreChannelOverEthernet"],
  "Ethernet": {
    "MACAddress": "5C:71:0D:04:44:C2",
    "VLAN": {
      "VLANEnable": false
    }
  },
  "FibreChannel": {
    "WWNN": "10:00:5C:71:0D:04:44:C2",
    "WWPN": "20:00:5C:71:0D:04:44:C2",
    "WWNSource": "ConfiguredLocally"
  },
  "BootMode": "Disabled",
  "AssignablePhysicalPorts": [{"
    "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/
```

```

UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1"
    }, {
        "@odata.id":    "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-3"
    }],
    "AssignablePhysicalPorts@odata.count": 2,
    "Links": {
        "PhysicalPortAssignment": {
            "@odata.id":    "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkPorts/Port-1"
        }
    },
    "Oem": {
        "Cisco": {
            "@odata.type": "#CiscoUCSEExtensions.v1_0_0.CiscoUCSEExtensions",

            "VnicConfiguration": {
                "UplinkPort": 0,
                "PCIOrder":  "0.2",
                "InterruptMode": "Any",
                "ClassOfService": 3,
                "Vif": {
                    "VifId": 0,
                    "VifCookie": 0
                },
            },
            "VHBAConfiguration": {
                "FcWorkQueueRingSize": 64,
                "FcRecvQueueRingSize": 64,
                "MaxDataFieldSize": 2112,
                "PersistentLunBindEnabled": false,
                "VHBAType": ["FcInitiator"],
                "CdbWorkQueue": {
                    "Count": 1,
                    "RingSize": 512
                },
            },
            "PortFLogi": {
                "RetryCount": -1,
                "Timeout": 2000
            },
            "PortPLogi": {
                "RetryCount": 8,
                "Timeout": 2000
            },
            "ErrorRecoveryProfile": {
                "FcpErrorRecoveryEnabled": false,
                "LinkDownTimeout": 30000,
                "PortDownTimeout": 10000,
                "IoTimeoutRetry": 5,
                "PortDownIoRetryCount": 8,
                "ErrorDetectTimeout": 2000,
                "ResourceAllocationTimeout": 10000
            },
            "FcPortProfile": {
                "IoThrottleCount": 512,
                "LunsPerTarget": 256,
                "LunQueueDepth": 20
            },
            "BootTable": []
        }
    }
}
},
"@odata.id":    "/redfish/v1/Chassis/1/NetworkAdapters/
UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc0",

```

```

      "@odata.type": "#NetworkDeviceFunction.v1_3_0.NetworkDeviceFunction",
      "@odata.context": "/redfish/v1/$metadata#NetworkDeviceFunction.
NetworkDeviceFunction"
    }
  }
}

```

ファイバチャネルインターフェイスのブート エントリの作成



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

新規ファイバチャネルインターフェイスの作成

```

curl -X POST -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions -d '{"Id"
:"ec2","NetDevFuncType": "FibreChannelOverEthernet", "Oem": {"Cisco":{"VnicConfiguration":
{"PCIOrder": "0.5", "NivCfg": {"ChannelNumber":10}}}}}'

```



(注) FC インターフェイスを使用するには、VNTAG/NIV モードを有効にする必要があります。

BootMode を FibreChannelOverEthernet に設定します。

```

curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc1 -d
'{"BootMode":"FibreChannelOverEthernet"}'

```

ファイバチャネルインターフェイスの削除

```

curl -XDELETE -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc6

```

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 admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/
VirtualMedia/1/Actions/VirtualMedia.InsertMedia -XPOST -d '{
"Image":"http://10.10.10.10/readwrite.img",
"WriteProtected":true,
"TransferProtocolType":"HTTP",
"TransferMethod":"Stream",

```

```
"Inserted":true,
"UserName":"username",
"Password":"password"
}'
```

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

マウント後の詳細取得リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/VirtualMedia/1
```

応答

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/VirtualMedia/1",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/VirtualMedia/Members/$entity",
  "@odata.type": "#VirtualMedia.v1_3_0.VirtualMedia",
  "ConnectedVia": "URI",
  "Id": "1",
  "MediaTypes": ["Floppy", "USBStick"],
  "Name": "Virtual Removable Disk",
  "Inserted": true,
  "Image": "http://10.104.236.41/readwrite1.img",
  "ImageName": "readwrite1.img",
  "WriteProtected": true,
  "Description": "Virtual Media Settings",
  "TransferMethod": "Stream",
  "TransferProtocolType": "HTTP",
  "UserName": "wwwuser",
  "Actions": {
    "#VirtualMedia.EjectMedia": {
      "target": "/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/VirtualMedia.EjectMedia"
    },
    "#VirtualMedia.InsertMedia": {
      "Image@Redfish.AllowableValues": ["This parameter shall specify the string URI of the remote media to be attached to the virtual media. (Required)"],
      "UserName@Redfish.AllowableValues": ["This parameter shall contain a string representing the username to be used when accessing the URI specified by the Image parameter."],
      "Password@Redfish.AllowableValues": ["This parameter shall contain a string representing the password to be used when accessing the URI specified by the Image parameter."],
      "WriteProtected@Redfish.AllowableValues": ["true"],
      "TransferProtocolType@Redfish.AllowableValues": ["CIFS", "HTTP", "HTTPS", "NFS"],
      "TransferMethod@Redfish.AllowableValues": ["Stream"],
      "Inserted@Redfish.AllowableValues": ["true"],
      "target": "/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/VirtualMedia.InsertMedia"
    }
  }
}
```

vMedia のアンマウントのリクエスト

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/VirtualMedia.EjectMedia -XPOST
```


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せん。

アンマウントの取得リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/VirtualMedia/1
```

応答

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/VirtualMedia/1",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/VirtualMedia/Members/$entity",
  "@odata.type": "#VirtualMedia.v1_3_0.VirtualMedia",
  "ConnectedVia": "NotConnected",
  "Id": "1",
  "MediaTypes": ["Floppy", "USBstick"],
  "Name": "Virtual Removable Disk",
  "Inserted": false,
  "WriteProtected": true,
  "Description": "Virtual Media Settings",
  "Actions": {
    "#VirtualMedia.EjectMedia": {
      "target": "/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/VirtualMedia.EjectMedia"
    },
    "#VirtualMedia.InsertMedia": {
      "Image@Redfish.AllowableValues": ["This parameter shall specify the string URI of the remote media to be attached to the virtual media. (Required)"],
      "UserName@Redfish.AllowableValues": ["This parameter shall contain a string representing the username to be used when accessing the URI specified by the Image parameter."],
      "Password@Redfish.AllowableValues": ["This parameter shall contain a string representing the password to be used when accessing the URI specified by the Image parameter."],
      "WriteProtected@Redfish.AllowableValues": ["true"],
      "TransferProtocolType@Redfish.AllowableValues": ["CIFS", "HTTP", "HTTPS", "NFS"],
      "TransferMethod@Redfish.AllowableValues": ["Stream"],
      "Inserted@Redfish.AllowableValues": ["true"],
      "target": "/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/VirtualMedia.InsertMedia"
    }
  }
}
```

ユーザ名がない VMedia への共有のマウント

vMedia のマウントのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/VirtualMedia.InsertMedia -XPOST -d '{
  "Image": "http://10.10.10.10/readwrite.img",
  "WriteProtected": true,
  "TransferProtocolType": "HTTP",
  "TransferMethod": "Stream",
```

```
"Inserted":true
}'
```

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。

マウントの詳細を取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/VirtualMedia/1
```

応答

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/VirtualMedia/1",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/VirtualMedia/
Members/$entity",
  "@odata.type": "#VirtualMedia.v1_3_0.VirtualMedia",
  "ConnectedVia": "URI",
  "Id": "1",
  "MediaTypes": ["Floppy", "USBStick"],
  "Name": "Virtual Removable Disk",
  "Inserted": true,
  "Image": "http://10.104.236.41/readwrite1.img",
  "ImageName": "readwrite1.img",
  "WriteProtected": true,
  "Description": "Virtual Media Settings",
  "TransferMethod": "Stream",
  "TransferProtocolType": "HTTP",
  "Actions": {
    "#VirtualMedia.EjectMedia": {
      "target": "/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/
VirtualMedia.EjectMedia"
    },
    "#VirtualMedia.InsertMedia": {
      "Image@Redfish.AllowableValues": ["This parameter shall specify the
string URI of the remote media to be attached to the virtual media. (Required)"],
      "UserName@Redfish.AllowableValues": ["This parameter shall contain
a string representing the username to be used when accessing the URI specified by the
Image
parameter."],
      "Password@Redfish.AllowableValues": ["This parameter shall contain
a string representing the password to be used when accessing the URI specified by the
Image
parameter."],
      "WriteProtected@Redfish.AllowableValues": ["true"],
      "TransferProtocolType@Redfish.AllowableValues": ["CIFS", "HTTP",
"HTTPS", "NFS"],
      "TransferMethod@Redfish.AllowableValues": ["Stream"],
      "Inserted@Redfish.AllowableValues": ["true"],
      "target": "/redfish/v1/Managers/CIMC/VirtualMedia/1/Actions/
VirtualMedia.InsertMedia"
    }
  }
}
```

リモート Syslog プライマリ サーバーの設定

リモート Syslog プライマリ サーバーの構成リクエスト



(注) このリクエストは、Cisco UCS C220M4、C240M4、C460M4、および S3X60 サーバーではサポートされていません。

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/LogServices/CIMC -XPATCH -d '{
  "Oem":{
  "Cisco":{
    "MinimumSeverityLevel": "Notice",
    "SyslogConnectionInfo": [{
      "DestinationServer": "10.10.10.10",
      "Enabled": true,
      "Port": 500,
      "Protocol": "TCP"
    }]
  }
}
```

レスポンス

```
{
  "ServiceEnabled": true,
  "OverWritePolicy": "WrapsWhenFull",
  "Id": "CIMC",
  "Name": "CIMC Log Service",
  "LogEntryType": "OEM",
  "Description": "CIMC Log Service",
  "DateTime": "Thu May 28 07:40:01 2020",
  "DateTimeLocalOffset": "+05:30",
  "MaxNumberOfRecords": 10000,
  "Oem": {
    "Cisco": {
      "MinimumSeverityLevel": "Debug",
      "SyslogConnectionInfo": [{
        "Protocol": "TCP",
        "Enabled": true,
        "DestinationServer": "10.10.10.10",
        "Port": 500
      }, {
        "Protocol": "UDP",
        "Enabled": false,
        "DestinationServer": "0.0.0.0",
        "Port": 514
      }]
    }
  },
  "Actions": {
    "#LogService.ClearLog": {
      "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Actions/LogService.ClearLog"
    }
  }
}
```

```

    "Oem": {
      "#CiscoUCSExtensions.TestRemoteSyslogCfg": {
        "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/
Actions/Oem/CiscoUCSExtensions.TestRemoteSyslogCfg"
      }
    }
  }
}

```

リモート Syslog セカンダリサーバーの設定

リモート Syslog セカンダリサーバーの設定のリクエスト



(注) このリクエストは、Cisco UCS C220M4、C240M4、C460M4、および S3X60 サーバーではサポートされていません。

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/
LogServices/CIMC -XPATCH -d
'
{
  "Oem": {
    "Cisco": {
      "MinimumSeverityLevel": "Debug",
      "SyslogConnectionInfo": [{}],
      {
        "DestinationServer": "10.13.12.14",
        "Enabled": true,
        "Port": 501,
        "Protocol": "TCP"
      }
    ]
  }
}
'

```

レスポンス

```

{
  "ServiceEnabled": true,
  "OverWritePolicy": "WrapsWhenFull",
  "Id": "CIMC",
  "Name": "CIMC Log Service",
  "LogEntryType": "OEM",
  "Description": "CIMC Log Service",
  "DateTime": "Thu May 28 07:46:56 2020",
  "DateTimeLocalOffset": "+05:30",
  "MaxNumberOfRecords": 10000,
  "Oem": {
    "Cisco": {
      "MinimumSeverityLevel": "Notice",
      "SyslogConnectionInfo": [{}],
      {
        "Protocol": "TCP",
        "Enabled": true,
        "DestinationServer": "10.10.10.10",
        "Port": 500
      }, {
        "Protocol": "TCP",
        "Enabled": true,

```

```

        "DestinationServer": "10.13.12.14",
        "Port": 501
    }
  ]
},
"Actions": {
  "#LogService.ClearLog": {
    "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Actions/
LogService.ClearLog"
  },
  "Oem": {
    "#CiscoUCSExtensions.TestRemoteSyslogCfg": {
      "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Actions/
Oem/CiscoUCSExtensions.TestRemoteSyslogCfg"
    }
  }
}
}
}
}

```

Syslog クライアント/サーバの詳細の取得



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/LogServices/CIMC
```

レスポンス

```

{
  "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/CIMC",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/LogServices/Members/$entity",
  "@odata.type": "#LogService.v1_1_1.LogService",
  "Entries": {
    "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Entries"
  },
  "ServiceEnabled": true,
  "OverWritePolicy": "WrapsWhenFull",
  "Id": "CIMC",
  "Name": "CIMC Log Service",
  "LogEntryType": "OEM",
  "Description": "CIMC Log Service",
  "DateTime": "Thu May 28 07:17:53 2020",
  "DateTimeLocalOffset": "+05:30",
  "MaxNumberOfRecords": 10000,
  "Oem": {
    "Cisco": {
      "MinimumSeverityLevel": "Debug",
      "SyslogConnectionInfo": [{
        "Protocol": "UDP",
        "Enabled": true,
        "DestinationServer": "10.104.236.59",
        "Port": 514
      }
    ]
  }
}

```

```

    }, {
      "Protocol": "UDP",
      "Enabled": false,
      "DestinationServer": "0.0.0.0",
      "Port": 514
    }
  ]
}
},
"Actions": {
  "#LogService.ClearLog": {
    "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Actions/LogService.ClearLog"
  },
  "Oem": {
    "#CiscoUCSEExtensions.TestRemoteSyslogCfg": {
      "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Actions/Oem/CiscoUCSEExtensions.TestRemoteSyslogCfg"
    }
  }
}
}
}

```

ネットワークコントローラの個々のポートの MAC アドレスの取得

ポートを含むネットワークアダプタのリストを取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>/EthernetInterfaces/
```

応答

```

{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/EthernetInterfaces",
  "@odata.type": "#EthernetInterfaceCollection.EthernetInterfaceCollection",
  "Name": "Ethernet Interfaces Collection",
  "Members": [
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/1.1"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/2.1"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/1.0"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/2.2"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/3.1"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/L.1"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/L.2"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/3.3"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/3.2"
    },
    {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/3.0"
    }
  ]
}

```

```

    }],
    "Members@odata.count": 10,
    "Description": "Collection of EthernetInterfaces for this System"
  }
}

```

各サードパーティのネットワーク アダプタ ポートの MAC アドレスの取得リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/
<SerialNumber>/EthernetInterfaces/L.2

```

応答

```

{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces/L.2",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/
EthernetInterfaces/Members/$entity",
  "@odata.type": "#EthernetInterface.v1_4_1.EthernetInterface",
  "Links": {
    "Chassis": {
      "@odata.id": "/redfish/v1/Chassis/1"
    }
  },
  "Id": "L.2",
  "Name": "Ethernet Interface",
  "MACAddress": "70:df:2f:86:f3:73",
  "PermanentMACAddress": "70:df:2f:86:f3:73",
  "Description": "Network Interface"
}

```

C シリーズにインストールされた LSI ストレージアダプタの概要プロパティの取得



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

ストレージコントローラ コレクションの取得リクエスト

```

curl -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP21460GPQ/Storage

```

応答

```

{
  "@odata.id": "/redfish/v1/Systems/WZP21460GPQ/Storage",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Storage",
  "@odata.type": "#StorageCollection.StorageCollection",
  "Description": "Collection of storage resource instances for this system",
  "Name": "Storage Collection",
  "Members": [
    {
      "@odata.id": "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21460GPQ/Storage/FlexFlash"
    }, {

```

```

        "@odata.id":    "/redfish/v1/Systems/WZP21460GPQ/Storage/FlexUtil"
    }],
    "Members@odata.count": 3
}

```

特定のストレージコントローラの詳細を取得するリクエスト

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID
```

応答

```

{
    "@odata.id":    "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID",
    "@odata.context":
"/redfish/v1/$metadata#Systems/Members/$entity/Storage/Members/$entity",
    "@odata.type":  "#Storage.v1_7_0.Storage",
    "Description":  "Storage Controller",
    "Drives":       [{
        "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/1"
    }, {
        "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/5"
    }, {
        "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/9"
    }, {
        "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/10"
    }, {
        "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/13"
    }, {
        "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/14"
    }
    ],
    "Volumes":      {
        "@odata.id":    "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes"
    },
    "Links":        {
        "Oem":         {
            "Cisco":    {
                "PCIeInfo":  [{
                    "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/PCIeFunctions/MRAID"
                }
            ]
        }
    }
    },
    "Id":           "MRAID",
    "Name":         "MRAID",
    "StorageControllers":  [{
        "@odata.id":    "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID",
        "SupportedControllerProtocols": ["PCIe"],
        "SupportedDeviceProtocols":    ["SATA", "SAS"],
        "MemberId":                    "MRAID",
        "Model":                        "UCSC-RAID-M5",
        "Name":                        "Cisco 12G Modular Raid Controller with 2GB cache (max
16 drives)",
    }
    ]
}

```



```

    "FirmwareVersion": "51.10.0-2978",
    "Manufacturer": "Cisco Systems Inc",
    "SerialNumber": "SK81166472",
    "CacheSummary": {
      "PersistentCacheSizeMiB": 1374,
      "TotalCacheSizeMiB": 2048
    },
    "Oem": {
      "Cisco": {
        "StorageControllerBiosVersion":
"7.10.03.1_0x070A0402",
        "PCIESlot": "MRAID",
        "ChipRevision": "08003",
        "StorageInstanceId": 8,
        "ControllerInterfaceType": "Sas",
        "ControllerStatus": "Optimal",
        "HasForeignConfig": false,
        "DefaultStripeSizeKiBytes": 64,
        "SupportedStripeSizesKiBytes": [64, 128, 256,
512, 1024],
        "RaidLevelsSupported": ["RAID0", "RAID1",
"RAID5", "RAID6",
"RAID10", "RAID50", "RAID60"],
        "JbodMode": true,
        "MaximumVolumesPerController": 64,
        "ControllerType": "Raid",
        "FullDiskEncryptionCapable": true,
        "ControllerEncryptionEnabled": false,
        "EccBucketLeakRate": 1440,
        "ConnectedSasExpander": true,
        "MemoryCorrectableErrors": 0,
        "PinnedCacheState": 0,
        "RebuildRatePercent": 30,
        "SubOEMId": 2,
        "BootDevices":
["/redfish/v1/Systems/WZP21460GPQ/Storage
/MRAID/Volumes/1"],
        "Bbu": {
          "BbuVendor": "",
          "BbuManufacturingDate": "2048-00-00",
          "BbuModuleVersion": "",
          "BbuSerialNumber": 0,
          "BbuType": "None",
          "BbuStatus": "NotPresent",
          "BbuChargingState": "Unknown",
          "IsCapacitor": false,
          "BbuDesignVoltageInVolts": 0,
          "BbuVoltageInVolts": 0,
          "BbuCurrentInAmps": 0,
          "IsTemperatureHigh": false,
          "IsBatteryPresent": false,
          "LearnMode": "Auto",
          "LearnCycleProgressStatus": "Success",
          "LearnCycleProgressStartTimeStamp":
"0",
          "LearnCycleProgressEndTimeStamp":
"0",
          "NextLearnCycleTimeStamp": "N/A",
          "IsLearnCycleRequested": false,
          "CapacitanceInPercent": 0,
          "DesignCapacityInJoules": 0,
          "PackEnergyInJoules": 0
        }
      }
    }
  }
}

```

```

    },
    "Status": {
      "State": "Enabled",
      "Health": "OK",
      "HealthRollup": "OK"
    },
    "Location": {
      "PartLocation": {
        "LocationType": "Slot",
        "ServiceLabel": "MRAID"
      }
    }
  }],
  "Actions": {
    "Oem": {
      "#Cisco.ClearConfig": {
        "target": "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Actions/Oem/Cisco.ClearConfig",
        "@odata.type": "#CiscoUCSEExtensions.v1_0_0.ClearConfig"
      },
      "#Cisco.DoForeignConfig": {
        "target": "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Actions/Oem/Cisco.DoForeignConfig",
        "@odata.type": "#CiscoUCSEExtensions.v1_0_0.DoForeignConfig",
        "ForeignCfgOp@Redfish.AllowableValues": ["Clear", "Import"]
      },
      "#Cisco.ResetToFactoryDefaults": {
        "target": "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Actions/Oem/Cisco.ResetToFactoryDefaults",
        "@odata.type": "#CiscoUCSEExtensions.v1_0_0.ResetToFactoryDefaults"
      }
    }
  }
}

```

ローカル ディスク (HDD) の詳細情報の取得



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

リクエスト

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/1
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives/1",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Storage/Members/$entity/Drives/Members/$entity",
}
```

```

"@odata.type": "#Drive.v1_5_0.Drive",
"Id": "1",
"Name": "1",
"Model": "ST1000NM0045",
"Revision": "CN04",
"Protocol": "SAS",
"MediaType": "HDD",
"Manufacturer": "SEAGATE",
"SerialNumber": "ZBS118DD0000R805A5K7",
"BlockSizeBytes": 512,
"CapableSpeedGbs": 12,
"HotspareType": "None",
"PredictedMediaLifeLeftPercent": 0,
"IndicatorLED": "Off",
"CapacityBytes": 1000204140544,
"FailurePredicted": false,
"EncryptionAbility": "None",
"Oem": {
  "Cisco": {
    "DriveState": "Online",
    "DrivePowerState": "Active",
    "DisabledForRemoval": false,
    "Bootable": false,
    "PredictiveFailureCount": 0,
    "MediaErrorCount": 0,
    "StorageInstanceId": 1,
    "CoercedSizeBytes": 998999326720,
    "NonCoercedSizeBytes": 999667269632,
    "SmartData": {
      "PercentLifeLeft": 0,
      "PercentReservedCapacityConsumed": 0,
      "PowerCycleCount": 0,
      "PowerOnHours": 0,
      "ThresholdOperatingTemperature": 60,
      "WearStatusInDays": 0
    }
  }
},
"Status": {
  "Health": "OK",
  "State": "Enabled"
},
"StatusIndicator": "OK",
"PhysicalLocation": {
  "PartLocation": {
    "LocationType": "Slot",
    "ServiceLabel": "1"
  }
},
"Actions": {
  "#Drive.SecureErase": {
    "target":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Drives
/1/Actions/Drive.SecureErase"
  },
  "Oem": {
    "#Cisco.AddHotspare": {
      "target": "/redfish/v1/Systems/WZP21460GPQ/Storage
/MRAID/Drives/1/Actions/Oem/Cisco.AddHotspare",
      "@odata.type": "#CiscoUCSExtensions.v1_0_0.AddHotSpare",
      "HotSpareType@Redfish.AllowableValues": ["Global",
"Dedicated"]
    }
  }
},

```

ローカル ディスクをホットスペアとして割り当て

```

        "#Cisco.RemoveHotspare": {
            "target": "/redfish/v1/Systems/WZP21460GPQ/Storage
/MRAID/Drives/1/Actions/Oem/Cisco.RemoveHotspare",
            "@odata.type": "#CiscoUCSExtensions.v1_0_0.RemoveHotSpare"
        },
        "#Cisco.PrepareForRemoval": {
            "target": "/redfish/v1/Systems/WZP21460GPQ/Storage
/MRAID/Drives/1/Actions/Oem/Cisco.PrepareForRemoval",
            "@odata.type":
"#CiscoUCSExtensions.v1_0_0.PrepareForRemoval"
        },
        "#Cisco.UndoPrepareForRemoval": {
            "target": "/redfish/v1/Systems/WZP21460GPQ/Storage
/MRAID/Drives/1/Actions/Oem/Cisco.UndoPrepareForRemoval",
            "@odata.type":
"#CiscoUCSExtensions.v1_0_0.UndoPrepareForRemoval"
        }
    }
}
}
}

```

ローカル ディスクをホットスペアとして割り当て



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

グローバル ホットスペアの追加

```
curl -X POST -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/
WZP211704JZ/Storage/MRAID/Drives/13/Actions/Oem/CiscoUCSExtensions.AddHotspare -d
'{"Oem":{"Cisco":{"HotSpareType":"Global" }}}'
```

専用ホットスペアの追加

```
curl -X POST -k -u admin:Password https://10.10.10.10/redfish/v1/Systems
WZP211704JZ/Storage/MRAID/Drives/12/Actions/Oem/CiscoUCSExtensions.AddHotspare -d
'{"Oem":{"Cisco":{"HotSpareType":"Dedicated","VolumeID":"/redfish/v1/Systems
/WZP211704JZ/Storage/MRAID/Volumes/0" }}}'
```

ホットスペアの削除

```
curl -X POST -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP211704JZ
/Storage/MRAID/Drives/12/Actions/Oem/CiscoUCSExtensions.RemoveHotspare
```

ドライブの削除のための準備



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

ドライブの削除のための準備

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP211704JZ/Storage/MRAID/Drives/10/Actions/Oem/Cisco.PrepareForRemoval -XPOST
```

「ドライブ削除の準備を元に戻す」をポスト

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP211704JZ/Storage/MRAID/Drives/10/Actions/Oem/Cisco.UndoPrepareForRemoval -XPOST
```

ローカル ドライブ状態の変更



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

このリクエストは、MSTOR-RAID/M.2 ストレージコントローラには適用されません。

DriveState を Jbod に設定

```
curl -XPATCH -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP211704JZ/Storage/MRAID/Drives/2 -d '{"Oem":{"Cisco":{"DriveState":"Jbod"}}}'
```

DriveState を UnconfiguredGood に設定

```
curl -XPATCH -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP211704JZ/Storage/MRAID/Drives/2 -d '{"Oem":{"Cisco":{"DriveState":"UnConfiguredGood"}}}'
```

LSI アダプタに設定されているすべての仮想ドライブの詳細の取得



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

ボリュームコレクションの詳細を取得する

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes
```

応答

```
{
  "@odata.id":      "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes",
  "@odata.context":
  "/redfish/v1/$metadata#Systems/Members/$entity/Storage/Members/$entity/Volumes",
```

```

        "@odata.type": "#VolumeCollection.VolumeCollection",
        "Description": "Collection of Volumes for this system",
        "Name": "Volume Collection",
        "Members@odata.count": 13,
        "Members": [
            {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/0"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/1"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/2"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/3"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/4"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/5"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/6"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/7"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/8"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/9"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/10"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/11"
            }, {
                "@odata.id":
"/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/12"
            }
        ]
    }
}

```

個別ボリュームの詳細を取得する

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/0
```

応答

```

{
    "@odata.id": "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/0",
    "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity/Storage/Members/$entity/Volumes/Members/$entity",
    "@odata.type": "#Volume.v1_3_1.Volume",
    "Description": "Volume",
    "Links": {
        "Oem": {
            "Cisco": {
                "Spans": [
                    {
                        "DrivesList": [

```

```

"@odata.id":
"/redfish/v1
/Systems/WZP21460GPQ/Storage/MRAID/Drives/1"
    }],
    "DrivesList@odata.count": 1,
    "SpanId": 0
    }],
    "Spans@odata.count": 1
  }
},
"DedicatedSpareDrives": [],
"SpareResourceSets": [],
"DedicatedSpareDrives@odata.count": 0,
"SpareResourceSets@odata.count": 0
},
"Id": "0",
"Name": "RAID0_1",
"Operations": [{
  "OperationName": "No operation in progress",
  "PercentageComplete": 0
}],
"Encrypted": false,
"CapacityBytes": 214748364800,
"BlockSizeBytes": 512,
"OptimumIOSizeBytes": 65536,
"Identifiers": [{
  "DurableNameFormat": "UUID",
  "DurableName": "6cc167e972c8ab4025df649d1f22cc1e"
}],
"RAIDType": "RAID0",
"Status": {
  "Health": "OK",
  "State": "Enabled"
},
"Oem": {
  "Cisco": {
    "VolumeAccessPolicy": "ReadWrite",
    "RequestedWriteCachePolicy": "WriteThrough",
    "ConfiguredWriteCachePolicy": "WriteThrough",
    "VolumeDriveCachePolicy": "NoChange",
    "VolumeReadAheadPolicy": "NoReadAhead",
    "VolumeIoPolicy": "DirectIo",
    "VolumeState": "Optimal",
    "AvailableSizeMiBytes": 726920,
    "Bootable": false,
    "FullDiskEncryptionCapable": false
  }
},
"Actions": {
  "#Volume.Initialize": {
    "target": "/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID
/Volumes/0/Actions/Volume.Initialize",
    "InitializeType@Redfish.AllowableValues": ["Fast", "Slow"]
  }
}
}
}

```



```
DVQQGEWJTTJESMBAGA1UECBMJS2FybmF0YWthMRIwEAYDVQQHEw1CZw5nYXw1cnUxUjAMBGNVBAoTBUNpc2NvMRiW
EAYDVQQLEw1TdG9yYWdl1UUEXDJAMBGNVBAoTBUx0xMSEWWhYJKoZiHvcNAQkBFhJzYw1iZWthckBjaXNjby5jb
20wHhcNMTkwNTEyMDYwMTE2WWhcNMjYxMDI0MDYwMTE2WjCBiDELMAkGA1UEBHMCSU4xZjAQBGNVBAoTBUx0xMSEWWhYJKoZiHvcNAQkBFhJzYw1iZWthckBjaXNjby5jb20wggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEK
A0IBAQAQDYUAOu98t/3ZZU5JvXQRyaoJbZLa3ladFC7x0EShek+dhLOMPtnk2PmDoi4woCeelHtFh9X3UCb/OQBDfte
o2cFs+aHNXR0ZwHHVpw9M8Vnlpb1Rva1PME/PRH2+f4D3zJ+uGfz7TQHYNhc9ZhsM/52MsFM7ong0HJzTEL72DwG2
tpvTWcfyOH35BwPitTdm5/sxS/VsL/ps0e+pBlEQ9s5KEUpwrOfmzvhlvuarzNGO4b6p2xjs/KU17n4qqwFKf1850
fdvHT6Ytr+CsoRoMxeLbpdLpoZTokieR+aRIS3SFzXxplkOes5t1TF5jOKbnD7dN+Kb3/4+WDJ3mTg2y7AgMBAAGj
IDAeMAkGA1UdEwQCAAwEQYJYIZIAAYb4QgEBBAQDAgeAMA0GCSqGSIb3DQEBCwUAA4IBAQC8SyUwERO8jBSdkaWZ4
zkP2T6z+f5vdBQIuQTbdCnQ7MX3dId71T/UkQsQIyc6dgNYWoj70fvo8ZmKqZM5k1TuqwpWdmpCHSD4C/cRDgBtKz
7MAYsNFx+ARf9rBqW1M8KntCNzFc/deVTxmIEUtTKECTiRexrojlg/vuwJhR/zGTn2A0Dw/QIKyAs/N9m/IBA/7j4
GMZxCjKq7VVeEJXWxyvPwz1a6jxwMIloTGMxEpB2WnfnYb/UoY/TrMobf22vigRzTBt8oQp/E3rDXiroctoSa29
YbzquiNqe+OgqoP61c+HjLpN6dhaJBIXN8kCAUpIo4a6dOLRndUxSVuW\n-----END CERTIFICATE-----\n-----
-BEGIN RSA PRIVATE KEY-----\nMIIEpAIBAAKCAQEAA2FADrvfLf92WVosb10EcmqCW2S2t5WnRQu8ThEoXpPnY
SzjD055Nj5g6IuMKAnnpR7X4fv91HAFzkAQ37XqNnH0vmhzV69GcBx76cPTPFZ5aW9Ub2pTzBPz0R9vn+A98yfrhn
8+00B2B53PFWYbDP+djLBT06J4NBYc0xC+9g8Btrab01nH8j9+QcD4rU3Zuf7MUv1bC/6bNhvqQZREPB0SHFKcKzn
zM74Zb7mq8zRjUg+qdsY7PylJe5+KqsBSn5fOdH3bx0+mLa/grKK6DMXi26XS6aGU6JInkfmkSEt0hc18aZZDnrOb
dUxeYzim5w+3Tfim9/+Plgyd5k4NsuwIDAQABAoIBAD92213PxeLz/e1SVVbGR7om05vkhwy0Cy10L2m0w1Mn6onH
Uc0YuPDUXNo3eoxXcFYV0Z4XD6j1vEQYUL/4IOW03m5831ac3QZJ1Hinmspg92nSEKYE5XglLxaWMmzZPmeUL/ZPX
mFhBuf9WHy4/4vySz5vesJ1BCxNA4LY7LwFBQR2X8SyxE9Gw1SoP6+gprSjkdUmpvQ9Fm/oMYQFw85KawLXXeU8q
SNCbPet5dEaXkolWLu0/9uZsZni2WopdFyZrficisicyD9fpaIhMWZnOijhBv1WXKGW1QU3V1taxtNQFDAN/qOa0
RM2GUH5TP+uIgjQ6HfIDm67VJQiECgYEA/JUxzbCENBea5NfCz/KkjhvkjwOFFghRCRTJ9iOm7JSBTu4TgqiDz4a
D1G0BhqiEWuLXVRQA4hTjCionNwvi+sB9o4w5wEfff9eWgItCHih+D+6ev0Ri9SvFJWEjuIOzO5i+IYPYQp3vNi/Sew
BJt56IzjKyF77IKV6X30BvK7F8CgYEA2z0zNiPdaxItiTNDAGRP1B3udCOhW88ZUTz3HbFFOPCEb1M/HJqE1yJqp
ipJABtF9XIjqqTfTjIlF+1xjLwSQ0RIMtcsuzmp+QSmhvwI1k45B7zWXj2tCsDexkm+xt9i0CS3/E8p8uZmMLCX
fl9ooadVEzwI4M82ySj5nnSUCgYBhy+aHrKPTg5w+pOfSGjHCA6Rcr4oICIOA3cuwruGwmR+21QOr2tG6syH18o2Q
m3lK42gHj+CXLy6jww41+Preee9rhpzJvUwfZnRVZoZETAwnP8SkYj7QrsPWQg6pguctKxRt7pJONtpEKUfaOIiDW
kM5YydoYpIsk59a3zf5YwKBgQCJ+BKxYJKoHhFwBUWHEGwYbJmYlvWlZef3et7zwf627bok5cd8GxisrJESPe47jU
3ucQg81oLk3tojnPMHirfJI0B4Vjd8T+esAni+Ppp731n+bl+q3BMvkiCkxn5uLaSNCLgoAS1VM13F61B3ze93Xm
PWLprt87csvgfh/Q2zQKBgQCm1HdpzYv0f7hk4kq28Php8OYAGek0yE6HQrW6+w2zmgBfVrKccmLVOZc9cCYSyqZ
AL4Ur/sbXzAgYCTQ+e184q1kT7Zze8KMfq+ecea8pbd+Ppu0ghum6/CPw8QCX7Hy7V1vlgm3zVrdRsfzLnvZmsvbT5
FVEZwpkGabGBHurow==\n-----END RSA PRIVATE KEY-----\n"}'
```

リモートキー管理のセキュリティを有効化する

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/
Systems/WZP23391JPJ/Storage/MRAID/Actions/Oem/Cisco.EncryptionOp -d '{"Oem":
{"Cisco":{"EnOpName":"Enable","Remote":true}}}' -XPOST
```

物理ドライブでの自己暗号化の有効化



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3x60 サーバーでサポートされていません。

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/
Systems/WZP23391JPJ/Storage/MRAID/Drives/8/Actions/Oem/Cisco.EncryptinOp -d '{"Oem":
{"Cisco":{"EncryptionOperation":"Enable"}}}' -XPOSTCreating Secured
```

コントローラでのセキュアなドライブのロック解除



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3x60 サーバーでサポートされていません。

コントローラでローカルキー管理が有効になっている場合のセキュアドライブのロック解除

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP23391JPJ/Storage/MRAID/Actions/Oem/Cisco.EncryptionOp -d '{"Oem":{"Cisco":{"EnOpName":"Unlock", "EncryptionKey":"password", "DriveEncryptionModeRemote":false}}}' -XPOST
```

コントローラでローカルリモートキー管理が有効になっている場合のセキュアドライブのロック解除

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP23391JPJ/Storage/MRAID/Actions/Oem/Cisco.EncryptionOp -d '{"Oem":{"Cisco":{"EnOpName":"Unlock", "DriveEncryptionModeRemote":true}}}' -XPOST
```

セキュアかつ未設定で良好なドライブ上のデータの消去



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3x60 サーバーでサポートされていません。

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP23391JPJ/Storage/MRAID/Drives/7/Actions/Drive.SecureErase -XPOST
```



- (注) このオプションは、セキュリティが有効になっていて、[未構成で良好 (Unconfigured Good)] 状態または [ロック解除された安全な外部 (Unlocked Secure foreign)] モードである場合にのみ、ドライブで機能します。

コントローラのセキュリティキーの変更



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3x60 サーバーでサポートされていません。

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems
/WZP23391JPJ/Storage/MRAID/Actions/Oem/Cisco.EncryptionOp -d '{"Oem":{"Cisco":
{"EnOpName":"Modify","Remote":false,"KeyId":"Cisco@123","EncryptionKey":
"CurrentKey","NewEncryptionKey":"NewKey"}}}' -XPOST
```

仮想ドライブの作成



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

RAID 1 作成のリクエスト

ストレージコントローラ タイプ [MSTOR-RAID] の場合 :

RAID 1 作成のリクエスト

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Systems/WZP25130PVM/Storage/MSTOR-RAID/Volumes -d
'{"RAIDType":"RAID1","Name":"boot-dsk253_254","Oem":{"Cisco":{"$spans":[{"DrivesList":[{"@odata.id":"/redfish/v1/
Systems/WZP25130PVM/Storage/MSTOR-RAID/Drives/253"},
{"@odata.id":"/redfish/v1/Systems/WZP25130PVM/Storage/MSTOR-RAID/Drives/254"}],"SpanId":0}}},"Oem":
{"Cisco":{"VolumeAccessPolicy":"Read-Write","VolumeReadAheadPolicy":"None","RequestedWriteCachePolicy":
"WriteThrough"}}}' -XPOST
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/88",
  "@odata.type": "#Task.v1_5_0.Task",
  "@odata.context": "/redfish/v1/$metadata#Task.Task",
  "Id": "88",
  "Name": "Storage:MSTOR-RAID, Operation:Volume Create",
  "StartTime": "2021-08-06T09:42:59+00:00",
  "EndTime": "2021-08-06T09:43:15+00:00",
  "PercentComplete": 100,
  "TaskState": "Completed",
  "TaskStatus": "OK",
  "Messages": [
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId": "Base.1.4.0.Success",
      "Message": "Successfully Completed Request",
      "MessageArgs": [],
      "Severity": "OK"
    }
  ],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/88"
}
```

その他のストレージコントローラのタイプ

RAID 1 作成のリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/FCH2144W00W/Storage
/RAID/Volumes -XPOST -d
'{"RAIDType":"RAID1","Name":"Raid0-vd","CapacityBytes":"10000000","Oem":
```

```
{
  "Cisco": {
    "Spans": [
      {
        "DrivesList": [
          {
            "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/7"
          },
          {
            "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/6"
          }
        ],
        "SpanId": "0"
      }
    ],
    "Oem": {
      "Cisco": {
        "VolumeAccessPolicy": "ReadOnly",
        "VolumeReadAheadPolicy": "ReadAhead",
        "RequestedWriteCachePolicy": "WriteThrough"
      }
    }
  }
}
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/88",
  "@odata.type": "#Task.v1_5_0.Task",
  "@odata.context": "/redfish/v1/$metadata#Task.Task",
  "Id": "88",
  "Name": "Storage:RAID, Operation:Volume Create",
  "StartTime": "2021-08-06T09:42:59+00:00",
  "EndTime": "2021-08-06T09:43:15+00:00",
  "PercentComplete": 100,
  "TaskState": "Completed",
  "TaskStatus": "OK",
  "Messages": [
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId": "Base.1.4.0.Success",
      "Message": "Successfully Completed Request",
      "MessageArgs": [],
      "Severity": "OK"
    }
  ],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/88"
}
```

VD 切り分けのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Volumes -XPOST -d
'{"RAIDType": "RAID1", "Name": "Raid0-vd-carved", "CapacityBytes": "500000",
  "Oem": {
    "Cisco": {
      "Spans": [
        {
          "DrivesList": [
            {
              "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/7"
            },
            {
              "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/6"
            }
          ],
          "SpanId": "0"
        }
      ],
      "Oem": {
        "Cisco": {
          "VolumeAccessPolicy": "ReadOnly",
          "VolumeReadAheadPolicy": "ReadAhead",
          "RequestedWriteCachePolicy": "WriteThrough"
        }
      }
    }
  }'
```



(注) VDの作成中に、**[CapacityBytes]** 値が DriveGroup で使用可能な空き領域に基づいていることを確認してください。

2つのスパンを使用したボリューム作成、例 (RAID 10)

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Volumes -XPOST -d
'{"RAIDType": "RAID10", "Name": "Raid0-vd", "CapacityBytes": "1000000", "Oem": {
  "Cisco": {
    "Spans": [
      {
        "DrivesList": [
          {
            "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/5"
          },
          {
            "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/3"
          }
        ],
        "SpanId": "0"
      },
      {
        "DrivesList": [
          {
            "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/7"
          },
          {
            "@odata.id": "/redfish/v1/Systems/FCH2144W00W/Storage/RAID/Drives/6"
          }
        ],
        "SpanId": "1"
      }
    ],
    "Oem": {
      "Cisco": {
        "VolumeAccessPolicy": "ReadOnly",
        "VolumeReadAheadPolicy": "ReadAhead",
        "RequestedWriteCachePolicy": "WriteThrough"
      }
    }
  }
}'
```

ボリュームの削除

```
curl -k -g -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/10 -XDELETE
```

ボリュームの初期化

```
curl -k -g -u admin:Password https://10.10.10.10/redfish/v1/Systems/WZP21460GPQ/Storage/MRAID/Volumes/10/Actions/Volume.Initialize -d '{"InitializeType":"Fast"}' -XPOST
```

Network Time Protocol (NTP) プロパティの取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/NetworkProtocol",
  "@odata.type": "#ManagerNetworkProtocol.v1_4_1.ManagerNetworkProtocol",
  "KVMIP": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "SNMP": {
    "ProtocolEnabled": true,
    "Port": 161
  },
  "Id": "ManagerNetworkProtocol",
  "Oem": {
    "Cisco": {
      "KVMConfiguration": {
        "VideoEncryption": "Enabled",
        "LocalServerVideo": "Enabled",
        "MaxConcurrentSessions": 4
      }
    }
  },
  "NTP": {
    "ProtocolEnabled": true,
    "Port": 123,
    "NTPServers": ["ntp.esl.com", "10.10.10.10", "", ""]
  },
  "Name": "Manager Network Protocol",
  "DHCPv6": {
    "ProtocolEnabled": false,
    "Port": null
  },
  "HTTPS": {
    "ProtocolEnabled": true,
    "Port": 443,
    "Certificates": {
      "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol/HTTPS/Certificates/1"
    }
  },
  "HostName": "test-hostname-kr-webcimc",
  "DHCP": {
    "ProtocolEnabled": false,
    "Port": null
  },
}
```

```

"SSH": {
  "ProtocolEnabled": true,
  "Port": 22
},
"IPMI": {
  "ProtocolEnabled": true,
  "Port": 623
},
"HTTP": {
  "ProtocolEnabled": true,
  "Port": 80
},
"VirtualMedia": {
  "ProtocolEnabled": true,
  "Port": 2068
},
"Description": "Manager Network Service"
}

```

Network Time Protocol (NTP) プロパティの設定

リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol -XPATCH -d
'{
  "NTP" : {
    "ProtocolEnabled":false,
    "NTPServers" : ["1.1.1.1", "abc.com", "testHostname", "10.2.3.4"]
  }
}'

```

レスポンス

```

{
  "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/NetworkProtocol",
  "@odata.type": "#ManagerNetworkProtocol.v1_4_1.ManagerNetworkProtocol",
  "KVMIP": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "SNMP": {
    "ProtocolEnabled": true,
    "Port": 161
  },
  "Id": "ManagerNetworkProtocol",
  "Oem": {
    "Cisco": {
      "KVMConfiguration": {
        "VideoEncryption": "Enabled",
        "LocalServerVideo": "Enabled",
        "MaxConcurrentSessions": 4
      }
    }
  },
  "NTP": {
    "ProtocolEnabled": false,
    "Port": 123,
  }
}

```

```

    "NTFServers": ["1.1.1.1", "abc.com", "testHostname", "10.2.3.4"]
  },
  "Name": "Manager Network Protocol",
  "DHCPv6": {
    "ProtocolEnabled": false,
    "Port": null
  },
  "HTTPS": {
    "ProtocolEnabled": true,
    "Port": 443,
    "Certificates": {
      "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol/HTTPS
/Certificates/1"
    }
  },
  "HostName": "test-hostname-kr-webcimc",
  "DHCP": {
    "ProtocolEnabled": false,
    "Port": null
  },
  "SSH": {
    "ProtocolEnabled": true,
    "Port": 22
  },
  "IPMI": {
    "ProtocolEnabled": true,
    "Port": 623
  },
  "HTTP": {
    "ProtocolEnabled": true,
    "Port": 80
  },
  "VirtualMedia": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "Description": "Manager Network Service"
}

```

すべての Cisco IMC ユーザーの取得

リクエスト

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

レスポンス

```

{
  "@odata.id": "/redfish/v1/AccountService/Accounts",
  "@odata.context": "/redfish/v1/$metadata#AccountService/Accounts",
  "@odata.type": "#ManagerAccountCollection.ManagerAccountCollection",
  "Description": "Collection of Accounts",
  "Name": "Account Collection",
  "Members": [{
    "@odata.id": "/redfish/v1/AccountService/Accounts/1"
  }, {
    "@odata.id": "/redfish/v1/AccountService/Accounts/2"
  }, {
    "@odata.id": "/redfish/v1/AccountService/Accounts/3"
  }
]
}

```

```

    }],
    "Members@odata.count": 3
  }

```

ユーザー名とパスワードを持つ ID 11 Cisco IMC ユーザーのセットアップと、ログインアクセスの有効化

リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/AccountService/Accounts -XPOST -d '{"Id":"11","UserName":"test11","Password":"password","RoleId":"admin","Enabled":true}'

```

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。

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



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

リクエスト

```

curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/AccountService -d '{
  "Oem" : {
    "Cisco" : {
      "StrongPasswordPolicyEnabled" : true,
      "PasswordHistory": 5,
      "PasswordExpiry": {
        "GracePeriod": 5,
        "Enabled": true,
        "NotificationPeriod": 15,
        "ExpiryDuration": 30
      }
    }
  }
}'

```

レスポンス

```

{
  "AccountLockoutThreshold": 0,
  "Id": "AccountService",

```



```
"LDAP": {
  "LDAPService": {
    "Oem": {
      "Cisco": {
        "LDAPGroupAuthorizationEnabled": false
      }
    },
    "SearchSettings": {
      "BaseDistinguishedNames": [],
      "UsernameAttribute": "CiscoAvPair",
      "GroupsAttribute": "memberOf"
    }
  },
  "Authentication": {
    "AuthenticationType": "UsernameAndPassword"
  },
  "Certificates": {
    "@odata.id": "/redfish/v1/AccountService/LDAP/Certificates"
  },
  "RemoteRoleMapping": [],
  "ServiceAddresses": [],
  "AccountProviderType": "LDAPService",
  "ServiceEnabled": false
},
"AccountLockoutDuration": 0,
"Name": "Account Service",
"MaxPasswordLength": 20,
"LocalAccountAuth": "Fallback",
"MinPasswordLength": 8,
"AuthFailureLoggingThreshold": 0,
"AccountLockoutCounterResetEnabled": true,
"Oem": {
  "Cisco": {
    "PasswordHistory": 5,
    "StrongPasswordPolicyEnabled": true,
    "PasswordExpiry": {
      "GracePeriod": 5,
      "Enabled": true,
      "NotificationPeriod": 15,
      "ExpiryDuration": 30
    }
  }
},
"AccountLockoutCounterResetAfter": 0,
"ServiceEnabled": true,
>Description": "Account Service"
}
```

iSCSI パラメータの取得



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkDeviceFunctions/eth1
```

レスポンス

```
{
  "Id": "eth1",
  "Name": "eth1",
  "NetDevFuncType": "Ethernet",
  "NetDevFuncCapabilities": ["Ethernet", "iSCSI"],
  "Ethernet": {
    "MACAddress": "5C:71:0D:04:49:E5",
    "MTUSize": 1500,
    "VLAN": {
      "VLANEnable": false
    }
  },
  "BootMode": "iSCSI",
  "iSCSIBoot": {
    "IPAddressType": "IPv4",
    "IPMaskDNSViaDHCP": false,
    "TargetInfoViaDHCP": false,
    "AuthenticationMethod": "None",
    "InitiatorName": "i.iqn.com",
    "InitiatorIPAddress": "1.1.1.1",
    "InitiatorNetmask": "255.255.255.0",
    "InitiatorDefaultGateway": null,
    "PrimaryDNS": null,
    "SecondaryDNS": null,
    "MutualCHAPUsername": null,
    "MutualCHAPSecret": null,
    "PrimaryTargetName": "t.iqn.com",
    "PrimaryTargetIPAddress": "10.10.10.11",
    "PrimaryTargetTCPPort": 5000,
    "PrimaryLUN": 0,
    "SecondaryTargetName": "t2.iqn.com",
    "SecondaryTargetIPAddress": "10.10.10.12",
    "SecondaryTargetTCPPort": 5000,
    "SecondaryLUN": 0,
    "CHAPUsername": null,
    "CHAPSecret": null
  },
  "AssignablePhysicalPorts": [
    {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkPorts/Port-1"
    },
    {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkPorts/Port-3"
    }
  ],
  "AssignablePhysicalPorts@odata.count": 2,
  "Links": {
    "PhysicalPortAssignment": {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkPorts/Port-3"
    }
  },
  "Oem": {
    "Cisco": {
      "@odata.type": "#CiscoUCSExtensions.v1_0_0.CiscoUCSExtensions",
      "VnicConfiguration": {
        "UplinkPort": 1,

```

```

"PCIOOrder":      "0.1",
"InterruptMode":  "Any",
"VlanMode":       "Trunk",
"NivCfg":         {
  "ChannelNumber": 2
},
"Vif":            {
  "VifId":         0,
  "VifCookie":    0
},
"EthConfiguration": {
  "Cdn": "VIC-2-eth1",
  "TrustedClassOfServiceEnabled": false,
  "CompQueueCount": 5,
  "StandByRecoveryDly": 5,
  "StandByVif": {
    "VifId": 0,
    "VifCookie": 0
  },
  "WorkQueue": {
    "Count": 1,
    "RingSize": 256
  },
  "RecvQueue": {
    "Count": 4,
    "RingSize": 512
  },
  "InterruptProfile": {
    "Count": 8,
    "CoalescingTime": 125,
    "CoalescingType": "Min"
  },
  "Features": {
    "UplinkFailOverEnabled": false,
    "AdvancedFilterEnabled": false,
    "ArfsEnabled": false,
    "NvgreEnabled": false,
    "GroupInterruptEnabled": false,
    "VxlanEnabled": false,
    "Rocev2Enabled": false,
    "VmqEnabled": false,
    "MultiQueueEnabled": false,
    "GeneveEnabled": false
  },
  "OffloadProfile": {
    "TcpLargeReceiveEnabled": true,
    "TcpSegmentEnabled": true,
    "TcpRxChecksumEnabled": true,
    "TcpTxChecksumEnabled": true
  },
  "RssProfile": {
    "RssEnabled": true,
    "RssIpv4HashEnabled": true,
    "RssTcpIpv4HashEnabled": true,
    "RssIpv6HashEnabled": true,
    "RssTcpIpv6HashEnabled": true,
    "RssIpv6ExHashEnabled": false,
    "RssTcpIpv6ExHashEnabled": false,
    "RssUdpIpv4HashEnabled": false,
    "RssUdpIpv6HashEnabled": false
  },
  "iSCSIBootUcs": {
    "PrimaryEnabled": true,
    "DHCPIid":

```

```

"NetworkDeviceFunctionNetworkDeviceFunctionNetwork",
    "DHCPTimeout": 60,
    "LinkTimeout": 255,
    "LinkBusyRetryCount": 255,
    "TCPTimeout": 255
  }
}
}
},
"Status": {
  "State": "Enabled",
  "Health": "OK"
},
"@odata.id":
"/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770TY/
NetworkDeviceFunctions/eth1",
"@odata.type": "#NetworkDeviceFunction.v1_3_0.NetworkDeviceFunction",
"@odata.context": "/redfish/v1/$metadata#NetworkDeviceFunction.
NetworkDeviceFunction"
}

```

iSCSI ブートの削除



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkDeviceFunctions/eth1 -d
'{"BootMode":"Disabled"}' -XPATCH

```

レスポンス

```

{
  "Id": "eth1",
  "Name": "eth1",
  "NetDevFuncType": "Ethernet",
  "NetDevFuncCapabilities": ["Ethernet", "iSCSI"],
  "Ethernet": {
    "MACAddress": "5C:71:0D:04:49:E5",
    "MTUSize": 1500,
    "VLAN": {
      "VLANEnable": false
    }
  },
  "BootMode": "Disabled",
  "AssignablePhysicalPorts": [
    {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters
/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkPorts/Port-1"
    }, {
      "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters
/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkPorts/Port-3"
    }
  ]
}

```

```

    ]],
    "AssignablePhysicalPorts@odata.count": 2,
    "Links": {
      "PhysicalPortAssignment": {
        "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters
/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkPorts/Port-3"
      }
    },
    "Oem": {
      "Cisco": {
        "@odata.type": "#CiscoUCSEExtensions.v1_0_0.CiscoUCSEExtensions",
        "VnicConfiguration": {
          "UplinkPort": 1,
          "PCIOrder": "0.1",
          "InterruptMode": "Any",
          "VlanMode": "Trunk",
          "NivCfg": {
            "ChannelNumber": 2
          },
          "Vif": {
            "VifId": 0,
            "VifCookie": 0
          },
          "EthConfiguration": {
            "Cdn": "VIC-2-eth1",
            "TrustedClassOfServiceEnabled": false,
            "CompQueueCount": 5,
            "StandByRecoveryDly": 5,
            "StandByVif": {
              "VifId": 0,
              "VifCookie": 0
            },
            "WorkQueue": {
              "Count": 1,
              "RingSize": 256
            },
            "RecvQueue": {
              "Count": 4,
              "RingSize": 512
            },
            "InterruptProfile": {
              "Count": 8,
              "CoalescingTime": 125,
              "CoalescingType": "Min"
            },
            "Features": {
              "UplinkFailOverEnabled": false,
              "AdvancedFilterEnabled": false,
              "ArfsEnabled": false,
              "NvgreEnabled": false,
              "GroupInterruptEnabled": false,
              "VxlanEnabled": false,
              "Rocev2Enabled": false,
              "VmqEnabled": false,
              "MultiQueueEnabled": false,
              "GeneveEnabled": false
            },
            "OffloadProfile": {
              "TcpLargeReceiveEnabled": true,
              "TcpSegmentEnabled": true,
              "TcpRxChecksumEnabled": true,
              "TcpTxChecksumEnabled": true
            }
          },
        },
      }
    }
  },
}

```

```

        "RssProfile": {
            "RssEnabled": true,
            "RssIpv4HashEnabled": true,
            "RssTcpIpv4HashEnabled": true,
            "RssIpv6HashEnabled": true,
            "RssTcpIpv6HashEnabled": true,
            "RssIpv6ExHashEnabled": false,
            "RssTcpIpv6ExHashEnabled": false,
            "RssUdpIpv4HashEnabled": false,
            "RssUdpIpv6HashEnabled": false
        }
    },
    "Status": {
        "State": "Enabled",
        "Health": "OK"
    },
    "@odata.id": "/redfish/v1/Chassis/1/NetworkAdapters
/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkDeviceFunctions/eth1",
    "@odata.context": "/redfish/v1/$metadata#Chassis/Members/$entity
/NetworkAdapters/Members/$entity/NetworkDeviceFunctions/Members/$entity",
    "@odata.type": "#NetworkDeviceFunction.v1_3_0.NetworkDeviceFunction"
}

```

LDAP サーバの詳細の取得

リクエスト

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

レスポンス

```

{
  "@odata.id": "/redfish/v1/AccountService",
  "@odata.context": "/redfish/v1/$metadata#AccountService",
  "@odata.type": "#AccountService.v1_5_0.AccountService",
  "Accounts": {
    "@odata.id": "/redfish/v1/AccountService/Accounts"
  },
  "Roles": {
    "@odata.id": "/redfish/v1/AccountService/Roles"
  },
  "PrivilegeMap": {
    "@odata.id": "/redfish/v1/AccountService/PrivilegeMap"
  },
  "AccountLockoutThreshold": 0,
  "Id": "AccountService",
  "LDAP": {
    "LDAPService": {
      "SearchSettings": {
        "BaseDistinguishedNames": [],
        "UsernameAttribute": "CiscoAvPair",
        "GroupsAttribute": "memberOf"
      }
    },
    "Authentication": {
      "AuthenticationType": "UsernameAndPassword"
    }
  }
}

```

```

    },
    "RemoteRoleMapping": [{
      "LocalRole": "readonly",
      "RemoteGroup": "ldap-test"
    }],
    "ServiceAddresses": [],
    "AccountProviderType": "LDAPService",
    "ServiceEnabled": true
  },
  "AccountLockoutDuration": 0,
  "Name": "Account Service",
  "MaxPasswordLength": 20,
  "LocalAccountAuth": "Fallback",
  "MinPasswordLength": 1,
  "AuthFailureLoggingThreshold": 0,
  "AccountLockoutCounterResetEnabled": true,
  "Oem": {
    "Cisco": {
      "PasswordHistory": 0,
      "StrongPasswordPolicyEnabled": false,
      "PasswordExpiry": {
        "GracePeriod": 0,
        "Enabled": false,
        "NotificationPeriod": 15,
        "ExpiryDuration": 0
      }
    }
  },
  "AccountLockoutCounterResetAfter": 0,
  "ServiceEnabled": true,
  "Description": "Account Service"
}

```

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 admin: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

```

{
  "@odata.id": "/redfish/v1/AccountService",
  "@odata.context": "/redfish/v1/$metadata#AccountService",
  "@odata.type": "#AccountService.v1_5_0.AccountService",
  "Accounts": {
    "@odata.id": "/redfish/v1/AccountService/Accounts"
  },
  "Roles": {
    "@odata.id": "/redfish/v1/AccountService/Roles"
  },
  "PrivilegeMap": {
    "@odata.id": "/redfish/v1/AccountService/PrivilegeMap"
  },
  "AccountLockoutThreshold": 0,
}

```

```

    "Id": "AccountService",
    "LDAP": {
      "LDAPService": {
        "SearchSettings": {
          "BaseDistinguishedNames": [],
          "UsernameAttribute": "CiscoAvPair",
          "GroupsAttribute": "memberOf"
        }
      },
      "Authentication": {
        "AuthenticationType": "UsernameAndPassword"
      },
      "RemoteRoleMapping": [{
        "LocalRole": "readonly",
        "RemoteGroup": "ldap-test"
      }],
      "ServiceAddresses": ["ldap://10.2.37.79:389", "ldap://10.2.37.77:389"],
      "AccountProviderType": "LDAPService",
      "ServiceEnabled": true
    },
    "AccountLockoutDuration": 0,
    "Name": "Account Service",
    "MaxPasswordLength": 20,
    "LocalAccountAuth": "Fallback",
    "MinPasswordLength": 1,
    "AuthFailureLoggingThreshold": 0,
    "AccountLockoutCounterResetEnabled": true,
    "Oem": {
      "Cisco": {
        "PasswordHistory": 0,
        "StrongPasswordPolicyEnabled": false,
        "PasswordExpiry": {
          "GracePeriod": 0,
          "Enabled": false,
          "NotificationPeriod": 15,
          "ExpiryDuration": 0
        }
      }
    },
    "AccountLockoutCounterResetAfter": 0,
    "ServiceEnabled": true,
    "Description": "Account Service"
  }
}

```

LDAP パラメータの設定

リクエスト

```

curl -k -u admin: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"]
      }
    }
  },

```



```

"Oem" : {
    "Cisco" : {
        "LDAPGroupAuthorizationEnabled" : true
    }
},
"RemoteRoleMapping" : [
    {
        "LocalRole" : "admin",
        "RemoteGroup" : "group1",
        "Oem" : {
            "Cisco" : {
                "LDAPRemoteGroupDomain": "test.com"
            }
        }
    }
]
}'

```

レスポンス

```

{
  "@odata.id": "/redfish/v1/AccountService",
  "@odata.context": "/redfish/v1/$metadata#AccountService",
  "@odata.type": "#AccountService.v1_5_0.AccountService",
  "Accounts": {
    "@odata.id": "/redfish/v1/AccountService/Accounts"
  },
  "Roles": {
    "@odata.id": "/redfish/v1/AccountService/Roles"
  },
  "PrivilegeMap": {
    "@odata.id": "/redfish/v1/AccountService/PrivilegeMap"
  },
  "AccountLockoutThreshold": 0,
  "Id": "AccountService",
  "LDAP": {
    "LDAPService": {
      "SearchSettings": {
        "BaseDistinguishedNames": ["testDN"],
        "UsernameAttribute": "CiscoUsername",
        "GroupsAttribute": "memberGroup"
      },
    },
    "Oem" : {
      "Cisco" : {
        "LDAPGroupAuthorizationEnabled" : true
      }
    },
  },
  "Authentication": {
    "AuthenticationType": "UsernameAndPassword"
  },
  "RemoteRoleMapping": [{
    "LocalRole": "admin",
    "RemoteGroup": "group1",
  },
  "Oem" : {
    "Cisco" : {
      "LDAPRemoteGroupDomain": "test.com"
    }
  },
]

```

```

    "ServiceAddresses": ["ldap://10.10.10.10", "ldap://10.10.10..10"],
    "AccountProviderType": "LDAPService",
    "ServiceEnabled": false
  },
  "AccountLockoutDuration": 0,
  "Name": "Account Service",
  "MaxPasswordLength": 20,
  "LocalAccountAuth": "Fallback",
  "MinPasswordLength": 1,
  "AuthFailureLoggingThreshold": 0,
  "AccountLockoutCounterResetEnabled": true,
  "Oem": {
    "Cisco": {
      "PasswordHistory": 0,
      "StrongPasswordPolicyEnabled": false,
      "PasswordExpiry": {
        "GracePeriod": 0,
        "Enabled": false,
        "NotificationPeriod": 15,
        "ExpiryDuration": 0
      }
    }
  },
  "AccountLockoutCounterResetAfter": 0,
  "ServiceEnabled": true,
  "Description": "Account Service"
}

```

サーバの既存の障害イベントの取得

既存の障害のリストを取得するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/LogServices/Fault/Entries
```

応答

```

{
  "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/Fault/Entries",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/LogServices/Members/$entity/Entries",
  "@odata.type": "#LogEntryCollection.LogEntryCollection",
  "Name": "Log Service Collection",
  "Members": [{
    "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/Fault/Entries/1",
    "Id": "1",
    "EventId": "1",
    "EntryType": "Event",
    "Name": "Log Entry 1",
    "Description": "Log Entry 1",
    "Message": "TEMP_SENS_FRONT: Front Panel Thermal Threshold at upper non recoverable levels: Check Cooling ",
    "EventType": "Alert",
    "Created": "2020-05-28T10:14:35",
    "EventTimestamp": "2020-05-28T10:14:35",
    "MessageId": "F0411"
  }],
  "Members@odata.count": 1
}

```

各障害の詳細を取得するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/LogServices/Fault/Entries/1
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/Fault/Entries/1",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/LogServices/Members/$entity/Entries/Members/$entity",
  "@odata.type": "#LogEntry.v1_4_0.LogEntry",
  "Id": "1",
  "EventId": "1",
  "EntryType": "Event",
  "Name": "Log Entry 1",
  "Description": "Log Entry 1",
  "Message": "TEMP_SENS_FRONT: Front Panel Thermal Threshold at upper non recoverable levels: Check Cooling ",
  "EventType": "Alert",
  "Created": "2020-05-28T10:14:35",
  "EventTimestamp": "2020-05-28T10:14:35",
  "MessageId": "F0411",
  "Severity": "Critical"
}
```

TPM 情報の取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity",
  "@odata.type": "#ComputerSystem.v1_7_0.ComputerSystem",
  "Processors": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors"
  },
  "SimpleStorage": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SimpleStorage"
  },
  "Storage": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Storage"
  },
  "Memory": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory"
  },
  "MemoryDomains": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/MemoryDomains"
  },
  "NetworkInterfaces": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/NetworkInterfaces"
  },
  "Bios": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Bios"
  },
}
```

```

"SecureBoot": {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SecureBoot"
},
"EthernetInterfaces": {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces"
},
"LogServices": {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/LogServices"
},
"Links": {
  "Chassis": [{
    "@odata.id": "/redfish/v1/Chassis/1"
  }],
  "CooledBy": [{
    "@odata.id": "/redfish/v1/Chassis/1/Thermal"
  }],
  "ManagedBy": [{
    "@odata.id": "/redfish/v1/Managers/CIMC"
  }],
  "PoweredBy": [{
    "@odata.id": "/redfish/v1/Chassis/1/Power"
  }]
},
"SerialNumber": "WZP21330G5B",
"Boot": {
  "BootSourceOverrideTarget": "None",
  "BootSourceOverrideTarget@Redfish.AllowableValues": ["None", "Pxe",
"Floppy", "Cd", "Hdd", "BiosSetup", "Diags"],
  "BootSourceOverrideEnabled@Redfish.AllowableValues": ["Once", "Continuous",
"Disabled"],
  "BootSourceOverrideEnabled": "Disabled"
},
"Id": "WZP21330G5B",
"AssetTag": "Test assetTagRedfish",
"PowerState": "On",
"SystemType": "Physical",
"ProcessorSummary": {
  "Model": "Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz",
  "Count": 2
},
"HostName": "test-hostname-kr-webcimc",
"MemorySummary": {
  "TotalSystemMemoryGiB": 64,
  "Status": {
    "HealthRollup": "OK",
    "Health": "OK"
  }
},
"PCIeDevices@odata.count": 6,
"PCIeFunctions@odata.count": 6,
>Description": "PatchName",
"UUID": "1C61EBC6-8E10-4A9B-90CE-A4C03913EA56",
>Status": {
  "State": "Enabled",
  "Health": "OK"
},
"PCIeDevices": [{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/1"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/FRONT-NVME-2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/MLOM"
}

```

```
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/MRAID"
    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeDevices/L"
    }
  ]],
  "Name": "UCS C220 M5L",
  "HostWatchdogTimer": {
    "Status": {
      "State": "Enabled"
    }
  },
  "WarningAction": "None",
  "FunctionEnabled": true,
  "TimeoutAction": "ResetSystem"
},
"PCIeFunctions": [{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/1"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions
/FRONT-NVME-2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MLOM"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MRAID"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/L"
}],
"Oem": {
  "Cisco": {
    "PostCompletionStatus": true,
    "SystemEffectiveMemory": 64,
    "SystemEffectiveSpeed": 2400
  }
},
"TrustedModules": [{
  "InterfaceType": "TPM2_0",
  "InterfaceTypeSelection": "BiosSetting",
  "FirmwareVersion": "2.0",
  "Status": {
    "Health": "OK"
  }
}],
"PowerRestorePolicy": "LastState",
"Manufacturer": "Cisco Systems Inc",
"IndicatorLED": "Off",
"Model": "UCSC-C220-M5L",
"BiosVersion": "C220M5.4.1.1.61.0504202214",
"Actions": {
  "#ComputerSystem.Reset": {
    "target": "/redfish/v1/Systems/WZP21330G5B/Actions
/ComputerSystem.Reset",
    "ResetType@Redfish.AllowableValues": ["On", "ForceOff",
"GracefulShutdown", "GracefulRestart", "ForceRestart", "Nmi", "PowerCycle"]
  }
}
}
```

PCI スロット情報の取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B",
  "@odata.context": "/redfish/v1/$metadata#Systems/Members/$entity",
  "@odata.type": "#ComputerSystem.v1_7_0.ComputerSystem",
  "Processors": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Processors"
  },
  "SimpleStorage": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SimpleStorage"
  },
  "Storage": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Storage"
  },
  "Memory": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Memory"
  },
  "MemoryDomains": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/MemoryDomains"
  },
  "NetworkInterfaces": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/NetworkInterfaces"
  },
  "Bios": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/Bios"
  },
  "SecureBoot": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/SecureBoot"
  },
  "EthernetInterfaces": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/EthernetInterfaces"
  },
  "LogServices": {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/LogServices"
  },
  "Links": {
    "Chassis": [{
      "@odata.id": "/redfish/v1/Chassis/1"
    }],
    "CooledBy": [{
      "@odata.id": "/redfish/v1/Chassis/1/Thermal"
    }],
    "ManagedBy": [{
      "@odata.id": "/redfish/v1/Managers/CIMC"
    }],
    "PoweredBy": [{
      "@odata.id": "/redfish/v1/Chassis/1/Power"
    }]
  },
  "SerialNumber": "WZP21330G5B",
  "Boot": {
    "BootSourceOverrideTarget": "None",
```

```

    "BootSourceOverrideTarget@Redfish.AllowableValues": ["None",
    "Pxe", "Floppy", "Cd", "Hdd", "BiosSetup", "Diags"],
    "BootSourceOverrideEnabled@Redfish.AllowableValues": ["Once",
    "Continuous",
    "Disabled"],
    "BootSourceOverrideEnabled": "Disabled"
  },
  "Id": "WZP21330G5B",
  "AssetTag": "Test assetTagRedfish",
  "PowerState": "On",
  "SystemType": "Physical",
  "ProcessorSummary": {
    "Model": "Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz",
    "Count": 2
  },
  "HostName": "test-hostname-kr-webcimc",
  "MemorySummary": {
    "TotalSystemMemoryGiB": 64,
    "Status": {
      "HealthRollup": "OK",
      "Health": "OK"
    }
  },
  "PCIDevices@odata.count": 6,
  "PCIeFunctions@odata.count": 6,
  "Description": "PatchName",
  "UUID": "1C61EBC6-8E10-4A9B-90CE-A4C03913EA56",
  "Status": {
    "State": "Enabled",
    "Health": "OK"
  },
  "PCIDevices": [{
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIDevices/1"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIDevices/2"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIDevices/FRONT-NVME-2"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIDevices/MLOM"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIDevices/MRAID"
  }, {
    "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIDevices/L"
  }
  ],
  "Name": "UCS C220 M5L",
  "HostWatchdogTimer": {
    "Status": {
      "State": "Enabled"
    }
  },
  "WarningAction": "None",
  "FunctionEnabled": true,
  "TimeoutAction": "ResetSystem"
},
"PCIeFunctions": [{
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/1"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions
/FRONT-NVME-2"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MLOM"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/MRAID"
}

```

```

    }, {
      "@odata.id": "/redfish/v1/Systems/WZP21330G5B/PCIeFunctions/L"
    }],
    "Oem": {
      "Cisco": {
        "PostCompletionStatus": true,
        "SystemEffectiveMemory": 64,
        "SystemEffectiveSpeed": 2400
      }
    },
    "TrustedModules": [{
      "InterfaceType": "TPM2_0",
      "InterfaceTypeSelection": "BiosSetting",
      "FirmwareVersion": "2.0",
      "Status": {
        "Health": "OK"
      }
    }],
    "PowerRestorePolicy": "LastState",
    "Manufacturer": "Cisco Systems Inc",
    "IndicatorLED": "Off",
    "Model": "UCSC-C220-M5L",
    "BiosVersion": "C220M5.4.1.1.61.0504202214",
    "Actions": {
      "#ComputerSystem.Reset": {
        "target": "/redfish/v1/Systems/WZP21330G5B/Actions/ComputerSystem.Reset",
        "ResetType@Redfish.AllowableValues": ["On", "ForceOff", "GracefulShutdown", "GracefulRestart", "ForceRestart", "Nmi", "PowerCycle"]
      }
    }
  }
}

```

DIMM ブラックリスト化のステータスの取得

DIMM ブラックリスト化のステータスの取得のリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/<SerialNumber>
```

レスポンス

```

{
  "@odata.id": "/redfish/v1/Systems/WZP220607R1",
  "@odata.type": "#ComputerSystem.v1_9_0.ComputerSystem",
  "@odata.context": "/redfish/v1/$metadata#ComputerSystem.ComputerSystem",
  "Description": "Represents general resources for the overall system",
  "Processors": {
    "@odata.id": "/redfish/v1/Systems/WZP220607R1/Processors"
  },
  "Oem": {
    "Cisco": {
      "DimmBlacklistingEnabled": true,
      "SystemEffectiveMemory": 48,
      "SystemEffectiveSpeed": 2400,
      "PostCompletionStatus": true
    }
  },
  "Manufacturer": "Cisco Systems Inc"
}
<SNIP>
}

```


ネットワーク設定の取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs",
  "@odata.context": "/redfish/v1/$metadata#Managers/Members/$entity/EthernetInterfaces/Members/$entity",
  "@odata.type": "#EthernetInterface.v1_4_1.EthernetInterface",
  "Links": {
    "Chassis": {
      "@odata.id": "/redfish/v1/Chassis/1"
    }
  },
  "IPv6DefaultGateway": "3002::3001",
  "Id": "NICs",
  "NameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "AutoNeg": false,
  "SpeedMbps": 1024,
  "HostName": "test-hostname-kr-webcimc",
  "IPv6Addresses": [{
    "Address": "3002::3003",
    "PrefixLength": 64,
    "AddressOrigin": "Static"
  }],
  "FullDuplex": true,
  "StaticNameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "DHCPv4": {
    "UseDNSServers": false,
    "UseGateway": false,
    "UseNTPServers": false,
    "UseDomainName": false,
    "DHCPEnabled": false,
    "UseStaticRoutes": false
  },
  "IPv4Addresses": [{
    "Gateway": "10.10.10.1",
    "Address": "10.10.10.10",
    "SubnetMask": "255.255.255.0",
    "AddressOrigin": "Static"
  }],
  "VLAN": {
    "VLANId": 5,
    "VLANEnable": false
  },
  "IPv6StaticDefaultGateways": [{
    "Address": "3002::3001"
  }],
  "InterfaceEnabled": true,
  "MACAddress": "70:DF:2F:86:F3:6C",
  "Name": "Manager Ethernet Interface",
  "DHCPv6": {
    "OperatingMode": "Disabled",
    "UseDNSServers": false,
    "UseDomainName": false,
  }
}
```

```

    "UseNTPServers": false
  },
  "MaxIPv6StaticAddresses": 1,
  "StatelessAddressAutoConfig": {
    "IPv4AutoConfigEnabled": false,
    "IPv6AutoConfigEnabled": true
  },
  "MTUSize": 1500,
  "PermanentMACAddress": "70:DF:2F:86:F3:6C",
  "Description": "Manager Network Interface"
}

```

自動ネゴシエーションの有効化

リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs -XPATCH -d '{"AutoNeg":true}'

```

レスポンス

```

{
  "IPv6DefaultGateway": "3002::3001",
  "Id": "NICs",
  "NameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "AutoNeg": true,
  "SpeedMbps": 1024,
  "HostName": "test-hostname-kr-webcimc",
  "IPv6Addresses": [{
    "Address": "3002::3003",
    "PrefixLength": 64,
    "AddressOrigin": "Static"
  }],
  "FullDuplex": true,
  "StaticNameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "DHCIPv4": {
    "UseDNSServers": false,
    "UseGateway": false,
    "UseNTPServers": false,
    "UseDomainName": false,
    "DHCPEnabled": false,
    "UseStaticRoutes": false
  },
  "IPv4Addresses": [{
    "Gateway": "10.10.10.1",
    "Address": "10.10.10.10",
    "SubnetMask": "255.255.255.0",
    "AddressOrigin": "Static"
  }],
  "VLAN": {
    "VLANId": 5,
    "VLANEnable": false
  },
  "IPv6StaticDefaultGateways": [{
    "Address": "3002::3001"
  }],
  "InterfaceEnabled": true,
  "MACAddress": "70:DF:2F:86:F3:6C",
  "Name": "Manager Ethernet Interface",
  "DHCIPv6": {

```

```
"OperatingMode": "Disabled",
"UseDNSServers": false,
"UseDomainName": false,
"UseNTPServers": false
},
"MaxIPv6StaticAddresses": 1,
"StatelessAddressAutoConfig": {
  "IPv4AutoConfigEnabled": false,
  "IPv6AutoConfigEnabled": true
},
"MTUSize": 1500,
"PermanentMACAddress": "70:DF:2F:86:F3:6C",
>Description": "Manager Network Interface"
}
```

自動ネゴシエーションの無効化

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs -XPATCH -d '{"AutoNeg":false}'
```

レスポンス

```
{
  "IPv6DefaultGateway": "3002::3001",
  "Id": "NICs",
  "NameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "AutoNeg": false,
  "SpeedMbps": 100,
  "HostName": "test-hostname-kr-webcimc",
  "IPv6Addresses": [{
    "Address": "3002::3003",
    "PrefixLength": 64,
    "AddressOrigin": "Static"
  }],
  "FullDuplex": true,
  "StaticNameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "DHCPv4": {
    "UseDNSServers": false,
    "UseGateway": false,
    "UseNTPServers": false,
    "UseDomainName": false,
    "DHCPEnabled": false,
    "UseStaticRoutes": false
  },
  "IPv4Addresses": [{
    "Gateway": "10.10.10.1",
    "Address": "10.10.10.10",
    "SubnetMask": "255.255.255.0",
    "AddressOrigin": "Static"
  }],
  "VLAN": {
    "VLANId": 5,
    "VLANEnable": false
  },
  "IPv6StaticDefaultGateways": [{
    "Address": "3002::3001"
  }],
  "InterfaceEnabled": true,
```

```

"MACAddress": "70:DF:2F:86:F3:6C",
"Name": "Manager Ethernet Interface",
"DHCPv6": {
  "OperatingMode": "Disabled",
  "UseDNSServers": false,
  "UseDomainName": false,
  "UseNTPServers": false
},
"MaxIPv6StaticAddresses": 1,
"StatelessAddressAutoConfig": {
  "IPv4AutoConfigEnabled": false,
  "IPv6AutoConfigEnabled": true
},
"MTUSize": 1500,
"PermanentMACAddress": "70:DF:2F:86:F3:6C",
>Description": "Manager Network Interface"
}

```

自動ネゴシエーションの状態が無効な場合のネットワーク ポートの速度とデュプレックスの設定

リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs -XPATCH -d '{
  "SpeedMbps":10,
  "FullDuplex":false
}'

```

レスポンス

```

{
  "IPv6DefaultGateway": "3002::3001",
  "Id": "NICs",
  "NameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "AutoNeg": false,
  "SpeedMbps": 10,
  "HostName": "test-hostname-kr-webcimc",
  "IPv6Addresses": [{
    "Address": "3002::3003",
    "PrefixLength": 64,
    "AddressOrigin": "Static"
  }],
  "FullDuplex": false,
  "StaticNameServers": ["11.11.11.11", "12.12.12.12", "3003::3002"],
  "DHCPv4": {
    "UseDNSServers": false,
    "UseGateway": false,
    "UseNTPServers": false,
    "UseDomainName": false,
    "DHCPEnabled": false,
    "UseStaticRoutes": false
  },
  "IPv4Addresses": [{
    "Gateway": "10.10.10.1",
    "Address": "10.10.10.10",
    "SubnetMask": "10.10.10.10",

```

```

    "AddressOrigin": "Static"
  }],
  "VLAN": {
    "VLANId": 5,
    "VLANEnable": false
  },
  "IPv6StaticDefaultGateways": [{
    "Address": "3002::3001"
  }],
  "InterfaceEnabled": true,
  "MACAddress": "70:DF:2F:86:F3:6C",
  "Name": "Manager Ethernet Interface",
  "DHCIPv6": {
    "OperatingMode": "Disabled",
    "UseDNSServers": false,
    "UseDomainName": false,
    "UseNTPServers": false
  },
  "MaxIPv6StaticAddresses": 1,
  "StatelessAddressAutoConfig": {
    "IPv4AutoConfigEnabled": false,
    "IPv6AutoConfigEnabled": true
  },
  "MTUSize": 1500,
  "PermanentMACAddress": "70:DF:2F:86:F3:6C",
  "Description": "Manager Network Interface"
}

```

PXE ブート デバイスの作成



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

要求

```

curl -k -u admin:Password https://10.10.10.10/redfish/v1/Chassis
/1/NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/ -d
'{"Id": "eth4", "NetDevFuncType": "Ethernet", "BootMode": "PXE", "Oem":
{"Cisco": {"VnicConfiguration": {"PCIOrder": "0.5", "NivCfg":
{"ChannelNumber":14}}}}}' -XPOST

```

PXE ブート デバイスの削除

リクエスト



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth4 -XDELETE
```

PXE ブート デバイスの変更

リクエスト



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

```
curl -k -u admin:Password https://10.104.236.126/redfish/v1/Chassis/1/NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/eth4 -d '{ "BotMode": "Disabled" }' -XPATCH
```

ISCSI ブート デバイスの作成



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

要求

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions -d '{"Id": "eth11", "NetDevFuncType": "Ethernet", "BootMode": "iSCSI", "iSCSIBoot": {"InitiatorName": "iqn.initiator.com", "InitiatorIPAddress": "192.168.0.1", "InitiatorNetmask":
```

```
"255.255.255.0", "PrimaryTargetName": "iqn.target0.com", "PrimaryTargetIPAddress":
"192.168.0.2", "PrimaryLUN": 0, "AuthenticationMethod": "MutualCHAP", "CHAPSecret":
"Chapsecret", "CHAPUsername": "chapname", "MutualCHAPUsername": "mutualname",
"MutualCHAPSecret": "msecret", "IPAddressType": "IPv4", "Oem": {"Cisco":
{"VnicConfiguration": {"PCIOrder": "1.2", "NivCfg": {"ChannelNumber": 12}}}}' -XPOST
```

iSCSI ブート デバイスの変更



- (注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

静的構成による iSCSI プロパティの設定/変更

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0 -XPATCH -d
'{"BootMode": "iSCSI", "iSCSIBoot": {"InitiatorName": "in.initiator.com", "InitiatorIPAddress":
"192.168.0.1", "InitiatorNetmask": "255.255.255.0", "PrimaryTargetName": "iqn.target0.com",
"PrimaryTargetIPAddress": "192.168.1.1", "PrimaryTargetTCPPort": 5000,
"SecondaryTargetTCPPort": 5000}}'
```

DHCP 構成による iSCSI プロパティの設定/変更

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0 -XPATCH -d
'{"BootMode": "iSCSI", "iSCSIBoot": {"InitiatorName": "in.initiator.com", "IPMaskDNSViaDHCP":
true, "TargetInfoViaDHCP": true}}'
```

プライマリターゲット、セカンダリターゲットの両方、および認証設定に iSCSI プロパティを設定する

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0 -XPATCH -d
'{"BootMode": "iSCSI", "iSCSIBoot": {"InitiatorName": "in.initiator.com", "AuthenticationMethod":
"MutualCHAP", "CHAPSecret": "Chapsecret", "CHAPUsername": "chapname", "IPAddressType": "IPv4",
"InitiatorDefaultGateway": "1.1.1.1", "InitiatorIPAddress": "1.1.1.1", "InitiatorNetmask":
"255.255.255.0", "MutualCHAPSecret": "msecret", "MutualCHAPUsername": "mutualname",
"PrimaryDNS": "1.2.2.2", "PrimaryLUN": 3, "PrimaryTargetIPAddress": "1.1.1.1",
"PrimaryTargetName": "qweq", "SecondaryDNS": "1.1.1.1", "SecondaryLUN": 4,
"SecondaryTargetIPAddress": "12.23.34.4", "SecondaryTargetName": "qwrqwrq",
"TargetInfoViaDHCP": false}}'
```

AuthenticationMethod を no CHAP、no MutualCHAP に設定

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/et1 -XPATCH -d
'{"iSCSIBoot": {"InitiatorName": "in.initiator.com", "AuthenticationMethod": "None",
"CHAPSecret": "", "CHAPUsername": "", "IPAddressType": "IPv4", "InitiatorDefaultGateway":
"1.1.1.1", "InitiatorIPAddress": "1.1.1.1", "InitiatorNetmask": "255.255.255.0",
"MutualCHAPSecret": "", "MutualCHAPUsername": ""}}'
```



- (注) [None] を設定する場合、CHAP/MutualCHAP プロパティは受け入れられません。プロパティが既に存在する場合は、以下のリクエストのように null 値で指定する必要があります。

CHAP 名/シークレットを使用した CHAP としての AuthenticationMethod

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth0 -XPATCH -d
'{"iSCSIBoot":{"InitiatorName":"in.initiator.com","AuthenticationMethod":"CHAP",
"IPAddressType":"IPv4","InitiatorDefaultGateway":"1.1.1.1","InitiatorIPAddress":
"1.1.1.1","InitiatorNetmask":"255.255.255.0","PrimaryDNS":"1.2.2.2","PrimaryLUN":333,
"PrimaryTargetIPAddress":"1.1.1.1","PrimaryTargetName":"qweq","CHAPSecret":"Chapsecret",
"CHAPUsername":"chapname"}}'
```



- (注) authenticationMethod が CHAP の場合、CHAP 名/シークレットのみがリクエストで受け入れられます。mutualCHAP 属性が既に存在する場合、以下のように MutualCHAP プロパティを Null 値で設定する必要があります。"MutualCHAPSecret":"","MutualCHAPUsername":""

AuthenticationMethod as MutualCHAP

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/ UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/eth1 -XPATCH -d
'{"iSCSIBoot":{"InitiatorName":"i.initiator.com","AuthenticationMethod":"MutualCHAP",
"IPAddressType":"IPv4","InitiatorDefaultGateway":"1.1.1.1","InitiatorIPAddress":"1.1.1.1",
"InitiatorNetmask":"255.255.255.0","MutualCHAPSecret":"msecret","MutualCHAPUsername":
"mutualname","PrimaryDNS":"1.2.2.2","PrimaryLUN":333,"PrimaryTargetIPAddress":"1.1.1.1",
"PrimaryTargetName":"qweq","CHAPSecret":"Chapsecret","CHAPUsername":"chapname"}}'
```



- (注) MutualCHAP の場合、CHAP と MutualCHAP の両方のログイン情報を指定する必要があります。

iSCSIBootUcs 構成の構成

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/
NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770TY/NetworkDeviceFunctions/eth1 -d
'{"BootMode":"iSCSI", "Oem":{"Cisco":{"VnicConfiguration":{"EthConfiguration":
{"iSCSIBootUcs":{"PrimaryEnabled":true,"DHCPTimeout":60,"LinkTimeout":255,
"LinkBusyRetryCount":255,"TCPTimeout":255,"DHCPId":
"NetworkDeviceFunctionNetworkDeviceFunctionNetwork"}}}}}}'
```


SAN ブート デバイスの作成



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

FC インターフェイスを使用するには、VNTAG/NIV モードを有効にする必要があります。

ブート可能エントリの追加

```
curl -XPATCH -k -u admin:Password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/fc1 -d '{"Oem":{"Cisco":{"VnicConfiguration":{"VHBAConfiguration":{"BootTable":[{"WWPN":"01:02:03:04:05:09:09:08","Lun":5}]}}}}}'
```

複数の BootTable エントリの追加

```
curl -XPATCH -k -u admin:Password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-MLOM-C100-04_FCH224172K8/NetworkDeviceFunctions/fc0 -d '{"Oem":{"Cisco":{"VnicConfiguration":{"VHBAConfiguration":{"BootTable":[{"WWPN":"21:22:33:44:55:66:77:22","Lun":6}, {"WWPN":"21:22:33:44:55:66:77:23","Lun":7}, {"WWPN":"21:22:33:44:55:66:77:24","Lun":8}, {"WWPN":"21:22:33:44:55:66:77:25","Lun":9}]}}}}}'
```

SAN ブート デバイスの削除



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

要求

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc3 -d '{"Oem":{"Cisco":{"VnicConfiguration":{"VHBAConfiguration":{"BootTable":[null, null, null, null]}}}}}' -XPATCH
```

SAN ブート デバイスの変更



(注) このリクエストは Cisco UCS C220 M4、C240 M4、C460 M4 および S3X60 サーバーでサポートされていません。

VIC 13XX カードは 4.1(3b) 以降のリリースでサポートされています。

FC インターフェイスを使用するには、VNTAG/NIV モードを有効にする必要があります。

リクエスト

```
curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/Chassis/1/NetworkAdapters/UCSC-PCIE-C25Q-04_FCH233770L7/NetworkDeviceFunctions/fc0 -d '{"Oem":{"Cisco":{"VnicConfiguration":{"VHBACConfiguration":{"BootTable":[{"WWPN":"21:22:33:44:55:66:77:30","Lun":6},{},null,{"WWPN":"21:22:33:44:55:66:77:31","Lun":9}]}}}}}'
```



(注) ここで、First BootTable Entry が変更されます。2 番目のエントリは変更されません。3 番目のエントリが削除され、4 番目のエントリが変更されます。

BootTable エントリは、4 つの値の配列です。BootTable: [{},{},{},{}]、ここで

- {} : 配列内のそのインデックスの値を変更しません
- null : 配列内のそのインデックスの値を削除します
- new value : そのインデックスの既存の値を変更します

SSL 証明書の作成およびアップロード

リクエスト

```
curl -XPOST -k -u admin:password https://10.10.10.10/redfish/v1/CertificateService/Actions/CertificateService.GenerateCSR -d '{
  "CommonName" : "CNValue",
  "Organization" : "OrgValue",
  "OrganizationalUnit" : "OUValue",
  "City" : "CityName",
  "State" : "StateName",
  "Country" : "IN",
  "KeyPairAlgorithm" : "TPM_ALG_SHA512",
  "Email" : "Redfish@redfish.com",
  "CertificateCollection" :
"/redfish/v1/Managers/CIMC/NetworkProtocol/HTTPS/Certificates/1",
  "ChallengePassword" : "password",
  "AlternativeNames" : ["no-one@cisco.com"],
```

```
"10.10.10.10","cisco.com","https://10.10.10.10
/login.html"]
}'
```

レスポンス

```
{
  "CertificateCollection": "/redfish/v1/Managers/CIMC/NetworkProtocol/HTTPS/Certificates/1",
  "CSRString": "-----BEGIN CERTIFICATE REQUEST-----
  <REDACTED_CERTIFICATE_STRING>
  -----END CERTIFICATE REQUEST-----\n"
}
```

After the certificate is signed from the CA, it can be uploaded to CIMC using below request:

```
curl -XPOST -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/CIMC/NetworkProtocol/HTTPS/Certificates/1"
}
```

HSU 検出およびアップデート



- (注) このリクエストは、C220M4、C240M4、C460M4、および S3X60 サーバーではサポートされていません。

HSU ディープ ディスカバリのトリガー

要求

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1
/Managers/CIMC/Actions/Oem/CiscoUCSEExtensions.HostOSBootManagement -XPOST -d
'{"BootOption":"Immediate","ImageRepository":"10.10.10.10/nfsshare
/hsuls53mad/","Mode":"Discovery","TransferProtocol":"VMEDIA-NFS"}'
```



- (注) **[BootOption]** : **[Immediate]** または **[OnNextBoot]**
[ImageRepository] : <specify hsu tar file extracted path in remote share>
[TransferProtocol] : VMEDIA-NFS または VMEDIA-CIFS または VMEDIA-HTTPS または NFS
 または CIFS または HTTPS
 NFS、CIFS、または HTTPS を使用するには、FlexUtil SD カードをシステムに挿入する必要があります。

モード : ディスカバリ

応答

```
{
  "Messages": [],
  "Id": "401",
  "Name": "HSU-inventory",
  "StartTime": "01/15/2020 12:01:07 IST",
  "TaskState": "New",
  "PercentComplete": 0,
  "@odata.id": "/redfish/v1/TaskService/Tasks/401",
  "@odata.type": "#Task.v1_4_0.Task"
}
```

タスクを取得して HSU ディープ ディスカバリ ステータスを検索する

要求

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/TaskService/Tasks/401
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/401",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "401",
  "Name": "HSU-inventory",
  "StartTime": "01/15/2020 12:01:07 IST",
  "EndTime": "01/15/2020 12:15:45 IST",
  "PercentComplete": 100,
  "TaskState": "Completed",
  "Messages": [{
    "MessageId": "Base.1.4.Success",
    "Message": "Successfully Completed Request"
  }],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/401"
}
```

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

要求

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/UpdateService/FirmwareInventory
```

応答

```
{
  "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory",
  "@odata.context": "/redfish/v1/$metadata#UpdateService/FirmwareInventory",
  "@odata.type": "#SoftwareInventoryCollection.SoftwareInventoryCollection",
  "Description": "Inventory of Firmware components",
  "Name": "Firmware Inventory",
  "Members": [{
    "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Board_Controller"
  }, {
    "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/BIOS"
  }, {
    "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/CIMC"
  }, {
    "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/HDD-model-MTFDDAV960TCB-serial-174619C268DF"
  }
]
```

```

    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-11"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/X550-LOM-slot-L"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/HDD-model-MTFDDAV960TCB-serial-174619C26BA5"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/SasExpM5"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-3"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/UCSC-RAID-M5HD-slot-RAID"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/P40-24GB-slot-10"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/mswitch1"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-12"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-2"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/FirePro-slot-2"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-1"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-6"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/UCSC-SAS9460-8i-slot-12"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-4"
    }, {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory
/UCSC-NVMELW-I500-slot-FRONT-NVME-5"
    }, {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/mswitch2"
    }
  ],
  "Members@odata.count": 21
}

```

「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ーする

要求

```

curl -k -u admin:Password https://10.10.10.10/redfish/v1
/UpdateService/Actions/Oem/CiscoUCSExtensions.UCSUpdate -d '{ "Targets": [],
"ApplyTime": "Immediate",

```

```
"ForceUpdate":true, "ImageRepository":"10.10.10.10/nfsshare/hsuls53mad/",
"TransferProtocol"
:"VMEDIA-NFS" , "Username":"<share_username>", "Password":"<share_password>" }' -XPOST
```



(注) **[TransferProtocol]: [VMEDIA-NFS] または [VMEDIA-CIFS] または [VMEDIA-HTTPS] または [NFS] または [CIFS] または [HTTPS]**

[ApplyTime] : [Immediate] または [OnNextBoot]

- **Immediate** : 一部のコンポーネントを更新するために、HSU iso ブートがすぐに実行されます。
- **OnNextBoot** : 一部のコンポーネントを更新するための HSU iso ブートは、ホストの次の電源サイクル/電源投入時にのみ実行されます。

[ImageRepository] : <specify hsu tar file extracted path in remote share>

[ForceUpdate] : true または false

[Targets] : 検出されたすべてのコンポーネントで更新をトリガーします。

[「イメージが適用される場所を示すソフトウェア/ファームウェアインベントリ URI の配列」]

特定のコンポーネントで更新をトリガーするには、個々の 1 つ以上のコンポーネントのターゲットを指定できます。個々のコンポーネントの検索対象については、このコマンドを参照してください。

応答

```
{
  "Messages": [],
  "Id": "402",
  "Name": "HSU-update",
  "StartTime": "01/15/2020 12:58:59 IST",
  "TaskState": "New",
  "PercentComplete": 0,
  "@odata.id": "/redfish/v1/TaskService/Tasks/402",
  "@odata.type": "#Task.v1_4_0.Task"
}
```

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

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/TaskService/Tasks/402
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/402",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "402",
  "Name": "HSU-update",
  "StartTime": "01/15/2020 12:58:59 IST",
  "EndTime": "01/15/2020 13:48:20 IST",
  "PercentComplete": 100,
  "TaskState": "Completed",
}
```

```

    "Messages": [
      {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-11'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'X550-LOM-slot-L'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'SasExpM5'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-3'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'CIMC'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'UCSC-RAID-M5HD-slot-RAID'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'P40-24GB-slot-10'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'mswitch1'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-12'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-2'.",
        "Resolution": "NULL"
      }, {
        "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
        "Message": "Successfully updated the software inventory at

```

```

'FirePro-slot-2'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-1'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-6'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'UCSC-SAS9460-8i-slot-12'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-4'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'UCSC-NVMELW-I500-slot-FRONT-NVME-5'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'mswitch2'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'Board_Controller'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "CiscoUcsHsu.1.0.0.UpdateSuccess",
    "Message": "Successfully updated the software inventory at
'BIOS'.",
    "Resolution": "NULL"
  }, {
    "MessageId": "Base.1.4.Success",
    "Message": "Successfully Completed Request"
  }
],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/402"
}

```

電源再投入/電源投入前に、**ApplyTime** を **OnNextBoot** として **HSU 更新タスク トリガー**を終了します。

```

curl -k -u admin:Password https://10.10.10.10/redfish/v1/UpdateService/Actions/Oem/CiscoUCSExtensions.UCSUpdate

```



```
-d '{ "Targets": [], "ApplyTime": "OnNextBoot", "ForceUpdate": true, "ImageRepository":
"10.10.10.10/nfsshare/hsuls53mad/", "TransferProtocol": "VMEDIA-NFS" }' -XPOST
```

応答

```
{
  "Messages": [],
  "Id": "405",
  "Name": "HSU-update",
  "StartTime": "01/15/2020 17:10:26 IST",
  "TaskState": "New",
  "PercentComplete": 0,
  "@odata.id": "/redfish/v1/TaskService/Tasks/405",
  "@odata.type": "#Task.v1_4_0.Task"
}
```

タスク ステータスを取得する

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/TaskService/Tasks/405
```

応答

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/405",
  "@odata.context": "/redfish/v1/$metadata#TaskService/Tasks/Members/$entity",
  "@odata.type": "#Task.v1_4_0.Task",
  "Id": "405",
  "Name": "HSU-update",
  "StartTime": "01/15/2020 17:10:26 IST",
  "PercentComplete": 0,
  "TaskState": "Running",
  "Messages": [],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/405"
}
```

上記のコマンドで taskMonitor URI を使用して、更新タスクを終了します。

```
curl -k -u admin:Password https://10.10.10.10/redfish/v1/TaskService/Oem/
TaskMonitor/405 -XDELETE
```

HTTP 詳細の取得

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/
NetworkProtocol
```

応答

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
  "@odata.type": "#ManagerNetworkProtocol.v1_5_0.ManagerNetworkProtocol",
  "@odata.context": "/redfish/v1/$metadata#ManagerNetworkProtocol.ManagerNetworkProtocol",
  "HTTP": {
    "ProtocolEnabled": true,
    "Port": 80
  },
  "HTTPS": {
    "ProtocolEnabled": true,
    "Port": 443
  }
}
```

```
<SNIP>
}
```

HTTP モードの変更

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol -XPATCH -d
'{
  "HTTP":{
    "ProtocolEnabled":false
  }
}'

{
  "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
  "@odata.type": "#ManagerNetworkProtocol.v1_5_0.ManagerNetworkProtocol",
  "@odata.context": "/redfish/v1/$metadata#ManagerNetworkProtocol.ManagerNetworkProtocol",

  "HTTP": {
    "ProtocolEnabled": false,
    "Port": 80
  },
  "HTTPS": {
    "ProtocolEnabled": true,
    "Port": 443
  }
}
<SNIP>
}
```

SMTP E メール受信者の構成



(注) シビラティ (重大度) は標準スキーマの一部ではありません。受信者ごとに構成可能な OEM プロパティが定義されています。

```
curl -XPOST -k -u admin:$PASSWORD https://$IP/redfish/v1/EventService/Subscriptions -d '{
  "Protocol": "SMTP",
  "Oem":{
    "Cisco": {
      "SMTPMinimumSeverityToReport": "Warning"
    }
  },
  "Destination":"mailto:username@cisco.com"
}'

curl -XPATCH -k -u admin:$PASSWORD https://$IP/redfish/v1/EventService/Subscriptions/SMTP_1 -d '{
  "Oem": {
    "Cisco":{
      "SMTPMinimumSeverityToReport": "Informational"
    }
  }
}'
```

ローカル ログイングのシビラティ（重大度）の取得

リクエスト

Request to retrieve Local logging Severity:

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/LogServices/CIMC
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/CIMC",
  "@odata.type": "#LogService.v1_2_0.LogService",
  "@odata.context": "/redfish/v1/$metadata#LogService.LogService",
  "Entries": {
    "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Entries"
  },
  "ServiceEnabled": true,
  "OverWritePolicy": "WrapsWhenFull",
  "Id": "CIMC",
  "Name": "CIMC Log Service",
  "LogEntryType": "OEM",
  "Description": "CIMC Log Service",
  "DateTimeLocalOffset": "+05:30",
  "DateTime": "2020-12-22T14:01:38+05:30",
  "MaxNumberOfRecords": 10000,
  "SyslogFilters": [{
    "LowestSeverity": "Debug"
  }],
  "Oem": {
    "Cisco": {
      "MinimumSeverityLevel": "Debug",
      "SyslogConnectionInfo": [{
        "Protocol": "TCP",
        "Enabled": false,
        "DestinationServer": "10.10.10.11",
        "Port": 678
      }, {
        "Protocol": "UDP",
        "Enabled": false,
        "DestinationServer": "10.10.10.12",
        "Port": 689
      }
    ]
  }
},
  "Actions": {
    "#LogService.ClearLog": {
      "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Actions/LogService.ClearLog"
    },
    "Oem": {
      "#CiscoUCSExtensions.TestRemoteSyslogCfg": {
        "target": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Actions/Oem/CiscoUCSExtensions.TestRemoteSyslogCfg"
      }
    }
  }
}
```

ローカル ログイングのシビラティ（重大度）の構成

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC
/LogServices/CIMC -XPATCH -d
'{
  "SyslogFilters" : [{
    "LowestSeverity" : "Error"
  }]
}'
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/CIMC",
  "@odata.type": "#LogService.v1_2_0.LogService",
  "@odata.context": "/redfish/v1/$metadata#LogService.LogService",
  "Entries": {
    "@odata.id": "/redfish/v1/Managers/CIMC/LogServices/CIMC/Entries"
  },
  "ServiceEnabled": true,
  "OverWritePolicy": "WrapsWhenFull",
  "Id": "CIMC",
  "Name": "CIMC Log Service",
  "LogEntryType": "OEM",
  "Description": "CIMC Log Service",
  "DateTimeLocalOffset": "+05:30",
  "DateTime": "2020-12-22T14:01:38+05:30",
  "MaxNumberOfRecords": 10000,
  "SyslogFilters": [{
    "LowestSeverity": "Error"
  }],
  "Oem": {
    "Cisco": {
      "MinimumSeverityLevel": "Debug",
      "SyslogConnectionInfo": [{
        "Protocol": "TCP",
        "Enabled": false,
        "DestinationServer": "10.10.10.11",
        "Port": 678
      }, {
        "Protocol": "UDP",
        "Enabled": false,
        "DestinationServer": "10.10.10.12",
        "Port": 689
      }
    ]
  }
},
  "Actions": {
    "#LogService.ClearLog": {
      "target": "/redfish/v1/Managers/CIMC/LogServices
/CIMC/Actions/LogService.ClearLog"
    },
    "Oem": {
      "#CiscoUCSEExtensions.TestRemoteSyslogCfg": {
        "target": "/redfish/v1/Managers/CIMC/LogServices
/CIMC/Actions/Oem/CiscoUCSEExtensions.TestRemoteSyslogCfg"
      }
    }
  }
}
```

```
}  
}
```

BIOS CMOS をクリア (Clear BIOS CMOS)

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/  
v1/Systems/SERIAL/ Actions/Oem/ComputerSystem.ResetBIOSCMOS-XPOST -d '{}'
```

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。

ドライブ 診断

特定のドライブでの HDD 診断の開始リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/  
WZP211704JZ/Storage/MRAID/Drives/10/Actions/Oem/Cisco.StartDiagnostics -XPOST -d '{}'
```

応答

```
{  
  "Messages": [],  
  "Id": "1170",  
  "Name": "Storage:MRAID, Operation:Get Diagnostics Status",  
  "StartTime": "11/29/2020 10:34:49 SAST",  
  "TaskState": "Running",  
  "@odata.id": "/redfish/v1/TaskService/Tasks/1170",  
  "@odata.type": "#Task.v1_4_0.Task"  
}
```

特定の HDD の HDD 診断セルフ テストのステータスを取得するためのリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/1170
```

応答

```
{  
  "@odata.id": "/redfish/v1/TaskService/Tasks/1170",  
  "@odata.type": "#Task.v1_4_0.Task",  
  "@odata.context": "/redfish/v1/$metadata#Task.Task",  
  "Id": "1170",  
  "Name": "Storage:MRAID, Operation:Get Diagnostics Status",  
  "StartTime": "11/29/2020 10:34:49 SAST",  
  "EndTime": "11/29/2020 10:36:53 SAST",  
  "PercentComplete": 100,  
  "TaskState": "Completed",  
  "TaskStatus": "OK",  
  "Messages": [{  
    "MessageId": "Base.1.4.0.Success",  
    "Message": "Successfully Completed Request"  
  }],  
}
```

```

    "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/1170"
  }

```

セルフテストの進行中に特定の HDD の HDD 診断セルフテストをキャンセルする

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/WZP23391JPJ/Storage/MRAID/Drives/1/Actions/Oem/Cisco.CancelDiag -d '{}' -XPOST

```

セルフテストのキャンセル後の診断セルフテストの状態

要求

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/856

```

応答

```

{
  "@odata.id": "/redfish/v1/TaskService/Tasks/856",
  "@odata.type": "#Task.v1_4_0.Task",
  "@odata.context": "/redfish/v1/$metadata#Task.Task",
  "Id": "856",
  "Name": "Storage:MRAID, Operation:Get Diagnostics Status",
  "StartTime": "12/22/2020 14:37:44 IST",
  "EndTime": "12/22/2020 14:38:04 IST",
  "PercentComplete": 100,
  "TaskState": "Completed",
  "TaskStatus": "Warning",
  "Messages": [
    {
      "MessageId": "Base.1.4.0.InternalError",
      "Message": "Diagnostics job aborted!"
    }
  ],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/856"
}

```

SNMP ユーザの設定

SNMP ユーザーは、次の認証プロトコルを使用して作成できます。

- HMAC_SHA96
- HMAC128_SHA224
- HMAC192_SHA256
- HMAC256_SHA384
- HMAC384_SHA512

認証プロトコル値 HMAC_SHA512 で SNMP ユーザーを作成します

要求

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/AccountService/Accounts/-XPOST -d '{"Id":"12","AccountTypes":["SNMP"],"UserName":"SHA512","RoleId":"SNMPOnly","Enabled":true,"SNMP":{"AuthenticationProtocol":"HMAC384_SHA512","AuthenticationKey":"password","EncryptionProtocol":"CFB128_AES128","EncryptionKey":"password"}}'

```

応答

```
{
  "Id": "12",
  "UserName": "SHA512",
  "RoleId": "SNMPOnly",
  "Enabled": true,
  "@odata.id": "/redfish/v1/AccountService/Accounts/12",
  "@odata.type": "#ManagerAccount.v1_7_0.ManagerAccount",
  "Name": "User Account",
  "AccountTypes": [null, "SNMP"],
  "SNMP": {
    "AuthenticationProtocol": "HMAC384_SHA512",
    "AuthenticationKey": null,
    "EncryptionProtocol": "CFB128_AES128",
    "EncryptionKey": null
  }
}
```

MCTP 障害アラート設定の構成

障害アラート設定をパーシャルに構成するリクエスト



(注) このリクエストは Cisco UCS C245 M6 サーバーではサポートされていません。

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/SERIAL
-XPATCH -d
'{
  "Oem": {
    "Cisco": {
      "MCTP": {
        "FaultAlertSetting": "Disabled"
      }
    }
  }
}'
```

応答

```
{
  "SerialNumber": "WZP24160R9G",
  "Boot": {
    "BootSourceOverrideTarget": "None",
    "BootSourceOverrideTarget@Redfish.AllowableValues": ["None", "Pxe",
"Floppy", "Cd", "Hdd", "BiosSetup", "Diags"],
    "BootSourceOverrideEnabled@Redfish.AllowableValues": ["Once",
"Continuous",
"Disabled"],
    "BootSourceOverrideEnabled": "Disabled"
  },
  "Id": "WZP24160R9G",
  "AssetTag": "Unknown",
  "PowerState": "Off",
  "SystemType": "Physical",
  "ProcessorSummary": {
    "Model": "Genuine Intel(R) CPU $0000%@",
    "Count": 2
  },
  "HostName": "C240-WZP24160R9G",
```

```

"PowerRestorePolicy": "AlwaysOff",
"PCIeDevices@odata.count": 3,
"PCIeFunctions@odata.count": 3,
"UUID": "7ABEAABE-7F0E-A049-AAB1-914FFB52BEFF",
"Name": "UCS C240 M6N\n",
"HostWatchdogTimer": {
  "Status": {
    "State": "Disabled"
  },
  "WarningAction": "None",
  "FunctionEnabled": false,
  "TimeoutAction": "PowerDown"
},
"PCIeFunctions": [{
  "@odata.id": "/redfish/v1/Systems/WZP24160R9G/PCIeDevices
/MLOM/PCIeFunctions/0"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP24160R9G/PCIeDevices
/FRONT-NVME-1/PCIeFunctions/0"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP24160R9G/PCIeDevices/L
/PCIeFunctions/0"
}],
"Oem": {
  "Cisco": {
    "DimmBlacklistingEnabled": true,
    "SystemEffectiveMemory": 512,
    "SystemEffectiveSpeed": 3200,
    "PostCompletionStatus": false,
    "FrontPanelButtonsLocked": false,
    "MCTP": {
      "FaultAlertSetting": "Partial",
      "SPDMHandShakeStatus": "Completed"
    }
  }
},
"PCIeDevices": [{
  "@odata.id": "/redfish/v1/Systems/WZP24160R9G/PCIeDevices/MLOM"
}, {
  "@odata.id":
"/redfish/v1/Systems/WZP24160R9G/PCIeDevices/FRONT-NVME-1"
}, {
  "@odata.id": "/redfish/v1/Systems/WZP24160R9G/PCIeDevices/L"
}],
"BiosVersion": "C240M6.4.2.0.321.0311210937",
"Manufacturer": "Cisco Systems Inc",
"MemorySummary": {
  "TotalSystemMemoryGiB": 512,
  "Status": {
    "HealthRollup": "OK",
    "Health": "OK"
  }
},
"Model": "UCSC-C240-M6N",
"IndicatorLED": "Off",
"TrustedModules": [{
  "FirmwareVersion": null,
  "Status": {
    "State": "Absent"
  }
},
"Oem": {
  "Cisco": {
    "TPM": null
  }
}

```



```

    }
  }
  "Status": {
    "State": "Enabled",
    "Health": "OK",
    "HealthRollup": "OK"
  }
}

```

SPDM 認証局証明書の追加

SPDM 認証局証明書を追加するリクエスト



(注) このリクエストは Cisco UCS C245 M6 サーバーではサポートされていません。

```

Curl -XPOST
http://10.10.10.10/redfish/v1/Managers/CIMC/Oem/Cisco/SPDMTrustStore/Certificates -d
'{
  "CertificateType" : "PEM",
  "CertificateString" : "<CERTIFICATE_STRING>"
}'

```

応答

```

{
  "@odata.id" : "/redfish/v1/Managers/CIMC/Oem/Cisco/SPDMTrustStore/Certificates/1",
  "Id" : "1",
  "Name" : "Certificate"
}

```

エンドポイント SPDM 証明書の表示

エンドポイント SPDM 証明書収集の表示リクエスト



(注) このリクエストは Cisco UCS C245 M6 サーバーではサポートされていません。

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/SERIAL
/Oem/Cisco/SPDMDevice/Certificates

```

応答

```

{
  "@odata.id":
"/redfish/v1/Systems/WZP2412176A/Oem/Cisco/SPDMDevice/Certificates",
  "@odata.type": "#CertificateCollection.CertificateCollection",
  "@odata.context":
"/redfish/v1/$metadata#CertificateCollection.CertificateCollection",
}

```

```

    "Description": "A Collection of Certificate resource instances.",
    "Name": "Certificate Collection",
    "Members": [
      {
        "@odata.id": "/redfish/v1/Systems/SERIAL/Oem/Cisco/SPDMDevice
/Certificates/MRAID1_0"
      }, {
        "@odata.id": "/redfish/v1/Systems/SERIAL/Oem/Cisco/SPDMDevice
/Certificates/MRAID2_0"
      }
    ],
    "Members@odata.count": 2
  }
}

```

個々のエンドポイント SPDM 証明書を表示するリクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Systems/SERAIL/Oem/Cisco
/SPDMDevice/Certificates/MRAID1_0
```

応答

```

{
  "@odata.id":
"/redfish/v1/Systems/SERIAL/Oem/Cisco/SPDMDevice/Certificates/MRAID1_0",
  "@odata.type": "#Certificate.v1_0_1.Certificate",
  "@odata.context": "/redfish/v1/$metadata#Certificate.Certificate",
  "Id": "Certificate",
  "Name": "Certificate",
  "Description": "The Certificate resource describes a certificate used to prove
the
identify of a component, account, or service.",
  "CertificateType": "PEM",
  "Subject": {
    "Country": "IN",
    "City": "Bengaluru",
    "State": "Karnataka",
    "Organization": "Cisco",
    "OrganizationalUnit": "CSPG",
    "CommonName": "SAS3916"
  },
  "Issuer": {
    "Country": "IN",
    "State": "Karnataka",
    "Organization": "Cisco",
    "OrganizationalUnit": "CSPG",
    "CommonName": "SAS3916"
  },
  "Oem": {
    "Cisco": {
      "CertificateSerialNumber": "10:05",
      "IssuerCertificate": {
        "@odata.id": "/redfish/v1/Systems/WZP2412176A/Oem/Cisco
/SPDMDevice/Certificates/MRAID1_1"
      }
    }
  },
  "ValidNotBefore": "Nov 2 19:20:59 2020 GMT",
  "ValidNotAfter": "Aug 6 19:20:59 2075 GMT",
  "KeyUsage": ["ServerAuthentication"]
}

```

バックアップ BIOS ファームウェアのアクティベート

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Actions/Oem/CiscoUCSExtensions.BiosFwActivate -XPOST -d '{}'
```

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、適切なエラーメッセージが表示されます。

Cisco IMC Syslog 構成

サーバーの 1 つにセキュリティ Syslog 設定を構成する

リクエスト

```
curl -XPOST -k -u admin:password https://10.10.10.10/redfish/v1/EventService/Subscriptions -d '{ "Protocol": "SyslogTLS", "Destination": "syslog://10.10.10.10.55:6514", "SyslogFilters": [{" "LowestSeverity": "Warning" }], "SubscriptionType": "Syslog" }'
```

レスポンス

```
{
  "Id": "SyslogServer_1",
  "Name": "EventSubscription SyslogServer_1",
  "Protocol": "SyslogTLS",
  "Destination": "syslog://10.10.10.55:6514",
  "@odata.type": "#EventDestination.v1_10_1.EventDestination",
  "@odata.id": "/redfish/v1/EventService/Subscriptions/SyslogServer_1",
  "SubscriptionType": "Syslog"
}
```

セキュア Syslog サーバー証明書の追加

リクエスト

```
curl -v -XPOST -k -u admin:password https://10.10.10.10/redfish/v1/EventService/Subscriptions/SyslogServer_1/Certificates -d '{ "CertificateType": "PEM", "CertificateString": "-----BEGIN CERTIFICATE-----\nMIIDTCCAjSgAwIBAgIQPRZOptyIS7BAn2z5bG9WFjANBgkqhkiG9w0BAQ0FADAm\nMSQwIgYDVQQDExtibHJxYS1zYW0tbGFilVZBSS1XSU4tVk0tQ0EwHhcNMTUwMTE5\nmNDYwOTMyWhcNMjAxMTE2MjM0NTI1WjAmMSQwIgYDVQQDExtibHJxYS1zYW0tbGFil\nLVZBSS1XSU4tVk0tQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDt\nnpASz0Rt3BtbBcPgHYZ0JDjnRp6yvdY0mgEIagRLTDbsnRZPBd5e8PywDPMzRS1t2\
```

1 つのサーバーのセキュア Syslog 証明書の表示

```
nmoLv3qeL49r5urcF6yxPziAhhz2TusYBujACXpkRYUCO5e4H451mmqJynTGgloDC\nxHrt0cw27cr/
6Wxa1RgpDGqXl4iBtDQPezvkd5bvB6YQW9rmA8s7b6tspcCSMsD\
n4RDB0buWr96+n2R+sYeM5VHAJAjNDj6fQs70bUic3fUDcErUrvmOnhPiPM9cOpk\
nnkjmLkdP+SMJJPJ6wxaJjWjIOQPrbtqsuXWAN6bCqn1xgWAVnmGCSZN+uWQEDzNG\
nMP11Sk5fBdzQxIE4IgSrAgMBAAGjdjBOMAsGA1UdDwQEAwIBhJAPBgNVHRMBAf8E\
nBTADAQH/MB0GA1UdDgQWBBTWC9AK1GJhVr+uLC88U7yjIOcU5jAQBgkrBgEeAYI3\
nFQEEAwIBATAjBgkrBgEeAYI3FQIEFgQUJ84v4we7bUEntoMxmsY5TPdkmmEwDQYJ\
nKoZIHvcNAQENBQADggEBAI5+rPX/WdGdbl2YrS11Rua/D6UyXgv9bs7MysU046DU\
nY8rfI7xf8MLNN6RkESxB/L10t+13YQbPCxc8XAJGm/vSdSFFw4sSjIvtOH8qUFEY\
nHvj8SWH4Rf/zVZfn4kQQ6dIa7qNSOGCmBOce3delNpcIarb7vk7mVBWdE/4G62W1\
nGP1vinhzmHPUjOuu4uT9Qz4WebGf2c2gk2s+9PCRfHVTKlw7FMq+wgiv5dJpJzvl\
nTMUn944KugrN1esHAU1u+Ys0pf9uJPF2ob0U9HWGRe+NiU002unDW1GAA1jr0w5\
nIJtrtCvKVuAouoPLeoccxRD6yWaeYCulTcHmuWFPBXs=\
n-----END CERTIFICATE-----\n" }
```

レスポンス

```
{
  "@odata.id":
  "/redfish/v1/EventService/Subscriptions/SyslogServer_1/Certificates/1",
  "Id": "1",
  "Name": "Certificate"
}
```

1 つのサーバーのセキュア Syslog 証明書の表示

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/EventService/Subscriptions/
SyslogServer_1/Certificates/1
```

レスポンス

```
{
  "@odata.id":
  "/redfish/v1/EventService/Subscriptions/SyslogServer_1/Certificates/1",
  "@odata.type": "#Certificate.v1_3_0.Certificate",
  "@odata.context": "/redfish/v1/$metadata#Certificate.Certificate",
  "Id": "Certificate",
  "Name": "Certificate",
  "Description": "The Certificate resource describes a certificate used to prove
  the identify of a
  component, account, or service.",
  "CertificateType": "PEM",
  "CertificateString":
  "-----BEGIN
  CERTIFICATE-----\nMIIDTCCAjSgAwIBAgIQPRZOptyIS7BAn2z5bG9WFjANBgkqhkiG9w0BAQ0FADAm\
  nMSQwIgYDVQQDEExtibHJxYS1zYW0tbGFilLVZBSS1XSU4tVk0tQ0EwHhcNMTEwMTE5\
  nMDYwOTMyMjE2MjM0NTI1WjAmMSQwIgYDVQQDEExtibHJxYS1zYW0tbGFilLVZBSS1XSU4tVk0tQ0Ew\
  nEwggeiMAOGCsqGSIB3DQEBAQUAA4IBDwAwggEKAoIBAQt\
  npASz0Rt3BtbBcPghYZ0JDjnrP6yvdYOmgEiagRLTDbsnRZPBd5e8PywDPMzRS1t2\
  nmoLv3qeL49r5urcF6yxPziAhhz2TusYBujACXpkRYUCO5e4H451mmqJynTGgloDC\
  nxHrt0cw27cr/6Wxa1RgpDGqXl4iBtDQPezvkd5bvB6YQW9rmA8s7b6tspcCSMsD\
  n4RDB0buWr96+n2R+sYeM5VHAJAjNDj6fQs70bUic3fUDcErUrvmOnhPiPM9cOpk\
  nnkjmLkdP+SMJJPJ6wxaJjWjIOQPrbtqsuXWAN6bCqn1xgWAVnmGCSZN+uWQEDzNG\
  nMP11Sk5fBdzQxIE4IgSrAgMBAAGjdjBOMAsGA1UdDwQEAwIBhJAPBgNVHRMBAf8E\
  nBTADAQH/MB0GA1UdDgQWBBTWC9AK1GJhVr+uLC88U7yjIOcU5jAQBgkrBgEeAYI3\
  nFQEEAwIBATAjBgkrBgEeAYI3FQIEFgQUJ84v4we7bUEntoMxmsY5TPdkmmEwDQYJ\
  nKoZIHvcNAQENBQADggEBAI5+rPX/WdGdbl2YrS11Rua/D6UyXgv9bs7MysU046DU\
  nY8rfI7xf8MLNN6RkESxB/L10t+13YQbPCxc8XAJGm/vSdSFFw4sSjIvtOH8qUFEY\
  n-----END CERTIFICATE-----\n"
```

```
nHvj8SWH4Rf/zVZfn4kQQ6dIa7qNSOGCmBOce3delNpcIArb7vk7mVBWdE/4G62W1\
nGPLvinhzmHPUjOuu4uT9Qz4WebGfic2gk2s+9PCRfHVTKlw7FMq+wgiv5dJpjZvl\
nTMYun944KugrNlesHAU1u+Ys0pf9uJPF2ob0U9HWGRe+NiUOO2unDWlGAA1jr0w5\
nIJtrtCvKVuAouoPLeoccxRD6yWAeyCulTcHmuWFPBXs=\n-----END CERTIFICATE-----\n",
    "KeyUsage":      ["ServerAuthentication"]
}
}
```

非セキュア モードでサーバーの 1 つに Syslog 設定を構成する

リクエスト

```
curl -XPOST -k -u admin:password https://10.10.10.10/redfish/v1/EventService/Subscriptions
-d '{
  "Protocol": "SyslogTCP", "Destination": "syslog://10.10.10.10.56:6514", "SyslogFilters":
  [{" "LowestSeverity": "Warning" }], "SubscriptionType" : "Syslog" }'
```

レスポンス

```
{
  "Id": "SyslogServer_2",
  "Name": "EventSubscription SyslogServer_2",
  "Protocol": "SyslogTCP",
  "Destination": "syslog://10.10.10.10.56:6514",
  "@odata.type": "#EventDestination.v1_10_1.EventDestination",
  "@odata.id": "/redfish/v1/EventService/Subscriptions/SyslogServer_2",
  "SubscriptionType": "Syslog"
}
```

Syslog サーバー設定の修正

要求

```
curl -XPATCH -k -u admin:password
https://10.10.10.10/redfish/v1/EventService/Subscriptions/
SyslogServer_2 -d '{ "Protocol": "SyslogTLS", "Destination": "syslog://10.10.10.10",
"SyslogFilters":
[{" "LowestSeverity": "Critical" }], "SubscriptionType" : "Syslog" }'
```

Syslog サーバー構成の削除

要求

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/EventService/Subscriptions/SyslogServer_1 -XDELETE
```

FlexMMC 構成

Cisco 内部ストレージ (FlexMMC) の取得

リクエスト

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage",
  "@odata.type": "#CiscoInternalStorageCollection.CiscoInternalStorageCollection",

  "@odata.context":
"/redfish/v1/$metadata#CiscoInternalStorageCollection.CiscoInternalStorageCollection",
  "Description": "Collection of Cisco Internal Storage resources",
  "Name": "Cisco Internal Storage Collections",
  "Members": [
    {
      "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC"
    }
  ],
  "Members@odata.count": 1
}
```

リクエスト

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC",
  "@odata.type": "#CiscoInternalStorage.v1_0_0.CiscoInternalStorage",
  "@odata.context":
"/redfish/v1/$metadata#CiscoInternalStorage.CiscoInternalStorage",
  "Partitions": [
    {
      "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
CiscoPartition/IMCImages"
    }, {
      "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
CiscoPartition/UserFiles"
    }
  ],
  "Partitions@odata.count": 2,
  "Id": "FlexMMC",
  "Name": "FlexMMC",
  "Description": "FlexMMC Details",
  "Actions": {
    "#CiscoInternalStorage.ResetToDefault": {
      "target":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
Actions/CiscoInternalStorage.ResetToDefault"
    }
  }
}
```

```
    }
}
```

FlexMMC : IMCImage パーティション

リクエスト

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/
FlexMMC/CiscoPartition/IMCImages
```

レスポンス

```
{
  "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages",
  "@odata.type": "#CiscoPartition.v1_0_0.CiscoPartition",
  "@odata.context": "/redfish/v1/$metadata#CiscoPartition.CiscoPartition",
  "CiscoFile": {
    "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages/CiscoFile"
  },
  "Id": "IMCImages",
  "Name": "IMCImages",
  "Description": "Cisco IMC Images",
  "TotalSpaceMiB": 1536,
  "AvailableSpaceMiB": 1132,
  "Actions": {
    "#CiscoPartition.UploadFile": {
      "target":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages/
Actions/CiscoPartition.UploadFile"
    }
  }
}
```

リクエスト

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/
FlexMMC/CiscoPartition/UserFiles
```

レスポンス

```
{
  "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/UserFiles",
  "@odata.type": "#CiscoPartition.v1_0_0.CiscoPartition",
  "@odata.context": "/redfish/v1/$metadata#CiscoPartition.CiscoPartition",
  "CiscoFile": {
    "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
CiscoPartition/UserFiles/CiscoFile"
  },
  "Id": "UserFiles",
  "Name": "UserFiles",
  "Description": "User Uploaded Files",
  "TotalSpaceMiB": 6656,
  "AvailableSpaceMiB": 6600,
}
```

FlexMMC : イメージを IMCImage パーティションにマッピング

```

    "Actions": {
      "#CiscoPartition.UploadFile": {
        "target":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
CiscoPartition/UserFiles/Actions/CiscoPartition.UploadFile"
      }
    }
  }
}

```

FlexMMC : イメージを IMCImage パーティションにマッピング

リクエスト

```

curl -XPOST -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/
FlexMMC/CiscoPartition/IMCImages/Actions/CiscoPartition.UploadFile -d '
{"File": "NFS://10.10.10.10/nfsshare/rebooter.iso"}'

```

レスポンス

```

{
  "Messages": [],
  "Id": "138",
  "Name": "FlexMMC File Upload Monitor",
  "StartTime": "2022-05-23T13:15:32+00:00",
  "TaskState": "Running",
  "@odata.id": "/redfish/v1/TaskService/Tasks/138",
  "@odata.type": "#Task.v1_4_0.Task"
}

```

IMCImage パーティションのイメージアップロードステータスの取得

リクエスト

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/138

```

レスポンス

```

{
  "@odata.id": "/redfish/v1/TaskService/Tasks/138",
  "@odata.type": "#Task.v1_5_0.Task",
  "@odata.context": "/redfish/v1/$metadata#Task.Task",
  "Id": "138",
  "Name": "FlexMMC File Upload Monitor",
  "StartTime": "2022-05-23T13:15:32+00:00",
  "EndTime": "2022-05-23T13:15:35+00:00",
  "PercentComplete": 100,
  "TaskState": "Completed",
  "TaskStatus": "OK",
  "Messages": [
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId": "Base.1.4.0.Success",
      "Message": "Successfully Completed Request",
      "MessageArgs": [],
      "Severity": "OK"
    }
  ],
  "TaskMonitor": "/redfish/v1/TaskService/Oem/TaskMonitor/138"
}

```




(注) CIFS ファイル共有には次のデータを使用します。

```
{"File": "CIFS://10.10.10.10/nfsshare/ucs-c220m4-huu-4.1.2fS5.iso"}
```

HTTPS ファイル共有には次のデータを使用します。

```
{"File": "HTTPS://10.10.10.10/huu/ucs-c220m4-huu-4.1.2fS5.iso"}
```

HTTP ファイル共有には次のデータを使用します。

```
{"File": "HTTP://10.10.10.10/huu/ucs-c220m4-huu-4.1.2fS5.iso"}
```

IMCImage パーティションの詳細を確認する

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages/CiscoFile
```

レスポンス

```
{
  "@odata.id":
  "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/
  IMCImages/CiscoFile",
  "@odata.type": "#CiscoFileCollection.CiscoFileCollection",
  "@odata.context":
  "/redfish/v1/$metadata#CiscoFileCollection.CiscoFileCollection",
  "Description": "Collection of Cisco Internal Storage Partition resources",
  "Name": "Cisco Internal Storage Partition Collections",
  "Members": [
    {
      "@odata.id":
      "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
      CiscoPartition/IMCImages/CiscoFile/rebooter.iso"
    }
  ],
  "Members@odata.count": 1
}
```

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages/CiscoFile/rebooter.iso
```

レスポンス

```
{
  "@odata.id":
  "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/
  IMCImages/CiscoFile/rebooter.iso",
  "@odata.type": "#CiscoFile.v1_0_0.CiscoFile",
  "@odata.context": "/redfish/v1/$metadata#CiscoFile.CiscoFile",
  "Description": "A file in the partition of the Internal Storage",
  "Id": "rebooter.iso",
  "Name": "rebooter.iso",
  "Type": "ISO",
  "SizeMiB": 0,
  "SpaceOccupiedMiB": 0,
}
```

```
    "HostVisible": false
  }
}
```

IMCImage パーティションにマッピングされたファイルのホスト表示設定の変更

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages/CiscoFile/rebooter.iso -d '{"HostVisible":true}' -XPATCH
```

レスポンス

```
{
  "Id": "rebooter.iso",
  "Name": "rebooter.iso",
  "Type": "ISO",
  "SizeMiB": 0,
  "SpaceOccupiedMiB": 0,
  "HostVisible": true,
  "@odata.id":
  "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages/CiscoFile/rebooter.iso"
}
```

IMCImage パーティションにマッピングされたイメージの削除

要求

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/IMCImages/CiscoFile/rebooter.iso -XDELETE
```

FlexMMC : UserFiles パーティションにイメージをマッピング

リクエスト

```
curl -XPOST -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/UserFiles/Actions/CiscoPartition.UploadFile -d '{"File":"NFS://10.104.236.41/nfsshare/rebooter.iso"}'
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/TaskService/Tasks/139",
  "@odata.type": "#Task.v1_5_0.Task",
  "@odata.context": "/redfish/v1/$metadata#Task.Task",
  "Id": "138",
  "Name": "UserFile File Upload Monitor",
  "StartTime": "2022-05-23T13:15:32+00:00",
  "EndTime": "2022-05-23T13:15:35+00:00",
  "PercentComplete": 100,
  "TaskState": "Completed",
  "TaskStatus": "OK",
  "Messages": [
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId": "Base.1.4.0.Success",
    }
  ]
}
```

```

        "Message":      "Successfully Completed Request",
        "MessageArgs":  [],
        "Severity":     "OK"
    }],
    "TaskMonitor":     "/redfish/v1/TaskService/Oem/TaskMonitor/139"
}

```



(注) CIFS ファイル共有には次のデータを使用します。

```
{"File": "CIFS://10.10.10.10/nfsshare/ucs-c220m4-huu-4.1.2fs5.iso"}
```

HTTPS ファイル共有には次のデータを使用します。

```
{"File": "HTTPS://10.10.10.10/huu/ucs-c220m4-huu-4.1.2fs5.iso"}
```

HTTP ファイル共有には次のデータを使用します。

```
{"File": "HTTP://10.10.10.10/huu/ucs-c220m4-huu-4.1.2fs5.iso"}
```

UserFiles パーティションのイメージアップロードステータスの取得

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/139
```

レスポンス

```

{
  "@odata.id":      "/redfish/v1/TaskService/Tasks/139",
  "@odata.type":    "#Task.v1_5_0.Task",
  "@odata.context": "/redfish/v1/$metadata#Task.Task",
  "Id":             "139",
  "Name":           "FlexMMc File Upload Monitor",
  "StartTime":      "2022-05-23T22:19:06+00:00",
  "EndTime":        "2022-05-23T22:19:09+00:00",
  "PercentComplete": 100,
  "TaskState":      "Completed",
  "TaskStatus":     "OK",
  "Messages":       [
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId":   "Base.1.4.0.Success",
      "Message":     "Successfully Completed Request",
      "MessageArgs": [],
      "Severity":    "OK"
    }
  ],
  "TaskMonitor":    "/redfish/v1/TaskService/Oem/TaskMonitor/139"
}

```

UserFile パーティションの詳細を確認する

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/UserFiles/CiscoFile
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
CiscoPartition/UserFiles/CiscoFile",
  "@odata.type": "#CiscoFileCollection.CiscoFileCollection",
  "@odata.context":
"/redfish/v1/$metadata#CiscoFileCollection.CiscoFileCollection",
  "Description": "Collection of Cisco Internal Storage Partition resources",
  "Name": "Cisco Internal Storage Partition Collections",
  "Members": [
    {
      "@odata.id":
"/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/
FlexMMC/CiscoPartition/UserFiles/CiscoFile/rebooter.iso"
    }
  ],
  "Members@odata.count": 1
}
```

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/
CiscoInternalStorage/FlexMMC/CiscoPartition/UserFiles/CiscoFile/rebooter.iso
```

レスポンス

```
{
  "@odata.id": "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
CiscoPartition/UserFiles/CiscoFile/rebooter.iso",
  "@odata.type": "#CiscoFile.v1_0_0.CiscoFile",
  "@odata.context": "/redfish/v1/$metadata#CiscoFile.CiscoFile",
  "Description": "A file in the partition of the Internal Storage",
  "Id": "rebooter.iso",
  "Name": "rebooter.iso",
  "Type": "ISO",
  "SizeMiB": 0,
  "SpaceOccupiedMiB": 0,
  "HostVisible": false
}
```

UserFiles パーティションにマッピングされたファイルのホスト表示設定の変更

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/
CiscoInternalStorage/FlexMMC/CiscoPartition/UserFiles/CiscoFile/rebooter.iso -d '
{"HostVisible":true}' -XPATCH
```

レスポンス

```
{
  "Id": "rebooter.iso",
  "Name": "rebooter.iso",
  "Type": "ISO",
  "SizeMiB": 0,
  "SpaceOccupiedMiB": 0,
  "HostVisible": true,
  "@odata.id": "/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/
CiscoPartition/UserFiles/CiscoFile/rebooter.iso"
}
```

IMCImage UserFile パーティションにマッピングされたイメージの削除

要求

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/CiscoPartition/UserFiles/CiscoFile/rebooter.iso -XDELETE
```

FlexMMC を工場出荷時のデフォルト状態にリセット

要求

```
curl -XPOST -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/Oem/CiscoInternalStorage/FlexMMC/Actions/CiscoInternalStorage.ResetToDefault
```

パスワード変更

工場出荷時デフォルトの復元後に PasswordChangeRequired プロパティを確認する

リクエスト

```
$ curl -k -u admin:password https://10.10.10.10/redfish/v1/AccountService/Accounts/1
```

レスポンス

```
{
"@odata.id": "/redfish/v1/AccountService/Accounts/1",
"@odata.type": "#ManagerAccount.v1_5_0.ManagerAccount",
"@odata.context": "/redfish/v1/$metadata#ManagerAccount.ManagerAccount",
"Name": "User Account",
>Description": "User Account",
"Links": {
"Role": {
"@odata.id": "/redfish/v1/AccountService/Roles/admin"
}
},
"AccountTypes": ["Redfish", null],
"Id": "1",
>Description": "User Account",
"Enabled": true,
"Name": "User Account",
"UserName": "admin",
"RoleId": "admin",
>PasswordChangeRequired": true
}
```

工場出荷時デフォルトの復元後に PATCH プロパティでパスワードを変更する

リクエスト

```
$ curl -k -u admin:password https://10.10.10.10/redfish/v1/AccountService/Accounts/1
-XPATCH -
d '{"Password" : "New_Password"}'
```

レスポンス

```
{
  "AccountTypes": ["Redfish", null],
  "Id": "1",
  "Description": "User Account",
  "Enabled": true,
  "Name": "User Account",
  "UserName": "admin",
  "RoleId": "admin",
  "PasswordChangeRequired": false,
  "@odata.id": "/redfish/v1/AccountService/Accounts/1"
}
```

NULL アドレスの LDAP サーバーの構成

リクエスト

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/AccountService -XPATCH -
d '{"LDAP": {"ServiceAddresses": [null]} }'
```

レスポンス

```
"LDAP": {
  ...
  "ServiceEnabled": true,
  "ServiceAddresses": [],
},
```

NIC での DDNS およびドメイン名プロパティのサポート

GET

要求

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs
```

応答

```
{
  "@odata.id":      "/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs",
  "@odata.type":    "#EthernetInterface.v1_4_1.EthernetInterface",
  "@odata.context": "/redfish/v1/$metadata#EthernetInterface.EthernetInterface",
```

```
"Links":      {
"Chassis":    {
"@odata.id":  "/redfish/v1/Chassis/1"
}
},
"HostName":   "C220-WZP26330KVU",
"IPv4Addresses":  [{
"AddressOrigin": "Static",
"Address":       "10.10.10.10",
"SubnetMask":    "255.255.255.0",
"Gateway":       "10.10.10.1"
}],
"MaxIPv6StaticAddresses": 1,
"VLAN": {
"VLANEnable":  false,
"VLANId":      1
},
"DHCPv4": {
"DHCPEnabled": false,
"UseDNSServers": false,
"UseGateway":  false,
"UseDomainName": false,
"UseNTPServers": false,
"UseStaticRoutes": false
},
"DHCPv6": {
"OperatingMode": "Stateful",
"UseNTPServers": false,
"UseDNSServers": true,
"UseDomainName": false
},
"Name": "Manager Ethernet Interface",
"IPv6Addresses": [{
"AddressOrigin": "DHCPv6",
"PrefixLength": 64,
"Address":       "::"
}],
>Description": "Manager Network Interface",
"IPv6DefaultGateway": "::",
"InterfaceEnabled": true,
"PermanentMACAddress": "EC:F4:0C:1C:12:A4",
"NameServers": [],
"MTUSize": 1500,
"AutoNeg": false,
"StatelessAddressAutoConfig": {
"IPv4AutoConfigEnabled": false,
"IPv6AutoConfigEnabled": true
},
"StaticNameServers": [],
"Id": "NICs",
"Oem": {
"Cisco": {
"DynamicDNS": {
"RefreshInterval": 0,
"Enabled": true
}
}
},
"MACAddress": "EC:F4:0C:1C:12:A4"
}
```

SET

要求

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/EthernetInterfaces/
NICs -XATCH -d '{ "Oem": { "Cisco": { "DynamicDNS": { "RefreshInterval": 100, "Enabled":
true,
"DomainName": "Domain_Name" } } } }'
```

応答

```
{
  "MTUSize": 1500,
  "AutoNeg": false,
  "StaticNameServers": [],
  "Oem": {
    "Cisco": {
      "DynamicDNS": {
        "Enabled": true,
        "RefreshInterval": 100,
        "DomainName": "Domain_Name"
      }
    }
  },
  "HostName": "C220-WZP26330KVU",
  "IPv4Addresses": [{
    "AddressOrigin": "Static",
    "Address": "10.10.10.10",
    "SubnetMask": "255.255.255.0",
    "Gateway": "10.10.10.1"
  }],
  "MaxIPv6StaticAddresses": 1,
  "VLAN": {
    "VLANId": 1,
    "VLANEnable": false
  },
  "IPv6Addresses": [{
    "AddressOrigin": "DHCPv6",
    "PrefixLength": 64,
    "Address": "::"
  }],
  "DHCPv4": {
    "DHCPEnabled": false,
    "UseDNSServers": false,
    "UseGateway": false,
    "UseNTPServers": false,
    "UseStaticRoutes": false,
    "UseDomainName": false
  },
  "MACAddress": "EC:F4:0C:1C:12:A4",
  "DHCPv6": {
    "OperatingMode": "Stateful",
    "UseNTPServers": false,
    "UseDomainName": false,
    "UseDNSServers": true
  },
  "Id": "NICs",
  "Name": "Manager Ethernet Interface",
  "StatelessAddressAutoConfig": {
    "IPv4AutoConfigEnabled": false,
    "IPv6AutoConfigEnabled": true
  },
  "IPv6DefaultGateway": "::",
  "PermanentMACAddress": "EC:F4:0C:1C:12:A4",
  "InterfaceEnabled": true,
}
```



```

"NameServers": [],
"Description": "Manager Network Interface",
"@odata.id": "/redfish/v1/Managers/CIMC/EthernetInterfaces/NICs"
}

```

1 ~ 65535 の許容ポートで SMTP サービスを有効にする



- (注) ポート 0 はサポートされていません。ポート 0 で次のエラーメッセージが表示される場合があります。

```

Choose a value within the range that the implementation can support and resubmit
the request if the operation failed.

```

リクエスト

```

curl -XPATCH -k -u admin:password https://10.10.10.10/redfish/v1/EventService -
d '{"SMTP": {"ServiceEnabled": true, "ServerAddress": "1.1.1.1", "Port": 1}}'

```

レスポンス

```

{
  "Status": {
    "State": "Disabled",
    "Health": "OK"
  },
  "ServiceEnabled": false,
  "DeliveryRetryAttempts": 3,
  "DeliveryRetryIntervalSeconds": 30,
  "EventTypesForSubscription": ["Alert"],
  "SMTP": {
    "ServerAddress": "1.1.1.1",
    "FromAddress": "ucs-server@cisco.com",
    "Port": 1,
    "ServiceEnabled": true
  },
  "Actions": {
    "#EventService.SubmitTestEvent": {
      "target": "/redfish/v1/EventService/Actions/EventService.SubmitTestEvent"
    }
  },
  "@odata.id": "/redfish/v1/EventService"
}

```

シリアル オーバー LAN ポリシー用の COM ポートの設定

GET

要求

```

curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/SerialInterfaces/TTY0

```

応答

```
"InterfaceEnabled": true,
"BitRate": "115200",
"Oem": {
  "Cisco": { "SerialOverLanComPort": "com1",
    "SerialOverLanSSHPort": 2400
  }
}
```

SET**要求**

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/SerialInterfaces/TTY0 -XPATCH -
d '{"Oem":{"Cisco":{"SerialOverLanComPort":"com1", "SerialOverLanSSHPort": 2200}}}'
```

応答

```
{
"@odata.id": "/redfish/v1/Managers/BMC2/SerialInterfaces/TTY0",
"@odata.type": "#SerialInterface.v1_1_3.SerialInterface",
"@odata.context": "/redfish/v1/$metadata#SerialInterface.SerialInterface",
"Description": "Management for Serial Interface",
"SignalType": "Rs232",
"Id": "TTY0",
"InterfaceEnabled": true,
"Name": "Manager Serial Interface 1",
"PinOut": "Cisco",
"BitRate": "115200",
"DataBits": "8",
"FlowControl": "None",
"StopBits": "1",
"ConnectorType": "DB9 Female",
"Parity": "None",
"Description": "Management for Serial Interface",
"Oem": {
  "Cisco": {
    "SerialOverLanComPort": "com0",
    "SerialOverLanSSHPort": 2400
  }
}
}
```

権限および暗号化キーの設定

GET**要求**

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol
```

応答

```
{
"@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
"@odata.type": "#ManagerNetworkProtocol.v1_5_0.ManagerNetworkProtocol",
"@odata.context":
"/redfish/v1/$metadata#ManagerNetworkProtocol.ManagerNetworkProtocol",
"Id": "ManagerNetworkProtocol",
```



```

"AccessMode": null,
"CommunityString": ""
}],
"HideCommunityStrings": false,
"Port": 161,
"EnableSNMPv1": false
},
"Actions": {
  "Oem": {
    "#CiscoUCSEExtensions.ResetKVM": {
      "target":
"/redfish/v1/Managers/CIMC/NetworkProtocol/Actions/Oem/CiscoUCSEExtensions.ResetKVM",
      "@odata.type": "#CiscoUCSEExtensions.v1_0_0.ResetKVM"
    }
  }
}
}
}
}

```

SET

要求

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol
-XPATCH -
d '{"IPMI": {"ProtocolEnabled": false}, "Oem": {"Cisco": {"SSHTimeout": 2500,
"IPMIOverLan": {"ChannelSecurityKey": "055
DDDE537EF5F50C6593B199BBB4D3429102222", "PrivilegeLevelLimit": "read-only" } } }'

```

応答

```

{
"@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
"@odata.type": "#ManagerNetworkProtocol.v1_5_0.ManagerNetworkProtocol",
"@odata.context":
"/redfish/v1/$metadata#ManagerNetworkProtocol.ManagerNetworkProtocol",
"Id": "ManagerNetworkProtocol",
"Name": "Manager Network Protocol",
"SSH": {
"ProtocolEnabled": true,
"Port": 22
},
"Description": "Manager Network Service",
"VirtualMedia": {
"ProtocolEnabled": true,
"Port": 2068
},
"HostName": "C220-WZP26330KVU",
"HTTP": {
"ProtocolEnabled": false,
"Port": 80
},
"KVMIP": {
"ProtocolEnabled": true,
"Port": 2068
},
"DHCP": {
"ProtocolEnabled": false,
"Port": null
},
"HTTPS": {
"ProtocolEnabled": true,
"Port": 443,
"Certificates": {
"@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol/HTTPS/Certificates"

```

```
}
},
"NTP": {
  "ProtocolEnabled": false,
  "Port": 123,
  "NTPServers": []
},
"DHCPv6": {
  "ProtocolEnabled": true,
  "Port": null
},
"Oem": {
  "Cisco": {
    "KVMConfiguration": {
      "LocalServerVideo": "Enabled",
      "MaxConcurrentSessions": 4
    }
  },
  "KVMVendor": {
    "Vendor": "Cisco"
  }
},
"SSHTimeout": 2500,
"IPMIOverLan": {
  "ChannelSecurityKey": "055DDDE537EF5F50C6593B199BBB4D3429102222",
  "PrivilegeLevelLimit": "read.only"
}
},
"IPMI": {
  "ProtocolEnabled": false,
  "Port": 623
},
"SNMP": {
  "ProtocolEnabled": false,
  "EnableSNMPv2c": false,
  "EnableSNMPv3": false,
  "CommunityStrings": [{
    "AccessMode": null,
    "CommunityString": ""
  }],
  "HideCommunityStrings": false,
  "Port": 161,
  "EnableSNMPv1": false
},
"Actions": {
  "Oem": {
    "#CiscoUCSEExtensions.ResetKVM": {
      "target":
"/redfish/v1/Managers/CIMC/NetworkProtocol/Actions/Oem/CiscoUCSEExtensions.ResetKVM",
      "@odata.type": "#CiscoUCSEExtensions.v1_0_0.ResetKVM"
    }
  }
}
}
```

SSH プロトコルのセッション タイムアウトの設定

GET

要求

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol/
```

応答

```
[root@LNX-IPV6-236-41 ~]# curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol/

RESPONSE
{
  "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
  "@odata.type": "#ManagerNetworkProtocol.v1_5_0.ManagerNetworkProtocol",
  "@odata.context":
"/redfish/v1/$metadata#ManagerNetworkProtocol.ManagerNetworkProtocol",
  "Id": "ManagerNetworkProtocol",
  "Name": "Manager Network Protocol",
  "SSH": {
    "ProtocolEnabled": true,
    "Port": 22
  },
  "Description": "Manager Network Service",
  "VirtualMedia": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "HostName": "C220-WZP26330KVU",
  "HTTP": {
    "ProtocolEnabled": false,
    "Port": 80
  },
  "KVMIP": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "DHCP": {
    "ProtocolEnabled": false,
    "Port": null
  },
  "HTTPS": {
    "ProtocolEnabled": true,
    "Port": 443,
    "Certificates": {
      "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol/HTTPS/Certificates"
    }
  },
  "NTP": {
    "ProtocolEnabled": false,
    "Port": 123,
    "NTPServers": []
  },
  "DHCPv6": {
    "ProtocolEnabled": true,
    "Port": null
  },
  "Oem": {
    "Cisco": {
      "KVMConfiguration": {
        "LocalServerVideo": "Enabled",
        "MaxConcurrentSessions": 4
      },
      "KVMVendor": {
        "Vendor": "Cisco"
      }
    },
    "SSTimeout": 1800,
    "IPMIOverLan": {
      "ChannelSecurityKey": "0000000000000000000000000000000000000000000000000000000000000000",
      "PrivilegeLevelLimit": "admin"
    }
  }
}
```

```

}
}
},
"IPMI": {
  "ProtocolEnabled":      false,
  "Port": 623
},
"SNMP": {
  "ProtocolEnabled":      false,
  "EnableSNMPv2c":       false,
  "EnableSNMPv3": false,
  "CommunityStrings":    [{
    "AccessMode": null,
    "CommunityString": ""
  }],
  "HideCommunityStrings": false,
  "Port": 161,
  "EnableSNMPv1": false
},
"Actions": {
  "Oem": {
    "#CiscoUCSExtensions.ResetKVM": {
      "target":
        "/redfish/v1/Managers/CIMC/NetworkProtocol/Actions/Oem/CiscoUCSExtensions.ResetKVM",
      "@odata.type": "#CiscoUCSExtensions.v1_0_0.ResetKVM"
    }
  }
}
}
}

```

SET

要求

```

curl -k -u admin:password https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol/
-XPATCH -
d '{"Oem": {"Cisco": {"SSTimeout": 1500 } } }'

```

応答

```

[root@LNX-IPV6-236-41 ~]# curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/NetworkProtocol/

```

RESPONSE

```

{
  "@odata.id": "/redfish/v1/Managers/CIMC/NetworkProtocol",
  "@odata.type": "#ManagerNetworkProtocol.v1_5_0.ManagerNetworkProtocol",
  "@odata.context":
    "/redfish/v1/$metadata#ManagerNetworkProtocol.ManagerNetworkProtocol",
  "Id": "ManagerNetworkProtocol",
  "Name": "Manager Network Protocol",
  "SSH": {
    "ProtocolEnabled": true,
    "Port": 22
  },
  "Description": "Manager Network Service",
  "VirtualMedia": {
    "ProtocolEnabled": true,
    "Port": 2068
  },
  "HostName": "C220-WZP26330KVU",
  "HTTP": {
    "ProtocolEnabled": false,
    "Port": 80
  }
}

```



```

}
}
}

```

データのサニタイズ

- データ サニタイズ：リリース 4.2(3d) 以降、Cisco IMC はデータの無害化機能をサポートしています。データ サニタイズプロセスを使用して、Cisco IMC はすべての機密データを消去し、お客様データの抽出または回復を不可能にします。Cisco IMC が消去プロセスを進めると、ステータスレポートが更新されます。レポートから個々のデバイス消去のデータ サニタイズプロセスのステータスと進行状況を確認し、必要に応じて問題を特定して修正することができます。



- (注)
- お客様データを含むコンポーネントでデータのサニタイズを実行する必要があります。
 - この機能は、次のサーバーでサポートされています。
 - Cisco UCS C220 M5、C240 M5、C480 M5、C125 M5 サーバー
 - Cisco UCS C220 M6、C240 M6、C225 M6、C245 M6 サーバー

データ サニタイズの消去プロセスは、サーバー コンポーネントで次の順序で実行されます。

- ストレージ
- VIC
- BIOS
- Cisco IMC

すべてのサーバー コンポーネントでデータ サニタイズを実行するか、データ サニタイズのために VIC およびストレージ コンポーネントのみを選択するかを選択できます。データ サニタイズプロセスが完了し、レポートを生成すると、Cisco IMC が再起動します。

プロセスが完了すると、パスワードはデフォルトにリセットされます。パスワードを変更し、最新のファームウェアを使用してコンポーネントファームウェアのフルアップデートを実行できます。

データ サニタイズを実行するコマンドの発行

すべてのコンポーネントでデータ サニタイズを発行するコマンド：

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Actions/Oem/CiscoUCSExtensions.DataSanitize
-XPOST -d '{"SanitizeTargets": [ "HostDomainComponents", "BoardDomainComponents"]}'
```

VIC、ストレージコンポーネントでのみデータ サニタイズを発行するコマンド:

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Actions/Oem/CiscoUCSExtensions.DataSanitize
-XPOST -d '{"SanitizeTargets":["HostDomainComponents"]}'
```

要求

```
curl -k -u admin:password
https://10.10.10.10/redfish/v1/Managers/CIMC/Actions/Oem/CiscoUCSExtensions.DataSanitize
-XPOST -d '{"SanitizeTargets":["BoardDomainComponents", "HostDomainComponents"]}'
```

応答

```
{
  "Messages":
  [
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId": "CiscoUCS.1.2.0.DataSanitizationOK",
      "Message": "Performing data sanitization of targets Storage, VIC, BIOS, CIMC.",
      "MessageArgs": ["Performing data sanitization of targets Storage, VIC, BIOS, CIMC."],
      "Severity": "OK",
      "Resolution": "Indicates that data sanitization is proceeding successfully." },
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId": "CiscoUCS.1.2.0.DataSanitizationWarning",
      "Message": "Storage data sanitization is not yet supported.",
      "MessageArgs": ["Storage data sanitization is not yet supported."],
      "Severity": "Warning",
      "Resolution": "Data sanitization status message should be inspected to determine if this
        condition
        is expected or a problem requiring resolution." },
    {
      "@odata.type": "#Message.v1_1_1.Message",
      "MessageId": "CiscoUCS.1.2.0.DataSanitizationOK",
      "Message": "VIC is preparing to initiate data sanitization.",
      "MessageArgs": ["VIC is preparing to initiate data sanitization."],
      "Severity": "OK",
      "Resolution": "Indicates that data sanitization is proceeding successfully." },
    {
      "Id": "19",
      "Name": "Data Sanitization",
      "StartTime": "2012-03-11T05:37:00+09:00",
      "TaskState": "Running",
      "PercentComplete": 90,
      "@odata.id": "/redfish/v1/TaskService/Tasks/19",
      "@odata.type": "#Task.v1_4_0.Task"
    }
  ]
}
```

データ サニタイズのステータスを表示するコマンドの発行

データ サニタイズのステータスを表示する Redfish コマンドは次のとおりです。



(注) 発行されたデータ サニタイズ コマンドのタスク ID を使用できます。

要求

```
curl -k -u admin:password https://10.10.10.10/redfish/v1/TaskService/Tasks/task-id -XGET
```

応答

```
{
"@odata.id": "/redfish/v1/TaskService/Tasks/19",
"@odata.type": "#Task.v1_5_0.Task",
"@odata.context": "/redfish/v1/$metadata#Task.Task",
"Id": "19",
"Name": "Data Sanitization",
"StartTime": "2012-03-11T05:37:00+09:00",
"EndTime": "1970-01-01T00:07:11+00:00",
"PercentComplete": 100,
"TaskState": "Completed",
"TaskStatus": "Warning",
"Messages":
  [
    [
      {
"@odata.type": "#Message.v1_1_1.Message",
"MessageId": "CiscoUCS.1.2.0.DataSanitizationOK",
"Message": "Performing data sanitization of targets Storage, VIC, BIOS, CIMC.",
"MessageArgs": ["Performing data sanitization of targets Storage, VIC, BIOS, CIMC."],

"Severity": "OK",
"Resolution": "Indicates that data sanitization is proceeding successfully."
}
]
]
}
```


翻訳について

このドキュメントは、米国シスコ発行ドキュメントの参考和訳です。リンク情報につきましては、日本語版掲載時点で、英語版にアップデートがあり、リンク先のページが移動/変更されている場合がありますことをご了承ください。あくまでも参考和訳となりますので、正式な内容については米国サイトのドキュメントを参照ください。