



System Inventory

The Redfish `FirmwareInventory` schema is a component of the Redfish API standard used for providing detailed information about the firmware components, including their types and versions, within a computer system. It allows for easy management and monitoring of firmware-related aspects in a standardized manner.

- Get the firmware inventory collection

Info

After the BMC boots, it may take a few seconds (6-8 in NVIDIA® BlueField®-2, and 2 in BlueField-3) until everything can be seen in the following list.

```
curl -k -u root:'<password>' -H 'Content-Type: application/json' -X GET https://<bmc_ip>/redfish/v1/UpdateService/FirmwareInventory
```

Example output:

```
{
  "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory",
  "@odata.type": "#SoftwareInventoryCollection.SoftwareInventoryCollection",
  "Members": [
    {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/BMC_Firmware"
    },
    {
      "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory/Bluefield_FW_ERoT
```

```
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_ATF"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_BOARD"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_BSP"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_NIC"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_NODE"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_OFED"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_OS"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_SYS_IMAGE"
    },
    {
        "@odata.id" :
"/redfish/v1/UpdateService/FirmwareInventory/DPU_UEFI"
```

```
    }
  ],
  "Members@odata.count": 11,
  "Name": "Software Inventory Collection"
}
```

- Get a specific component information

Info

In the following example, the `DPU_OS` inventory components are retrieved.

```
curl -k -u root:'<password>' -H 'Content-Type:
application/json' -X GET
https://<bmc_ip>/redfish/v1/UpdateService/FirmwareInventory/DPU
```

Example output:

```
{
  "@odata.id":
  "/redfish/v1/UpdateService/FirmwareInventory/DPU_OS",
  "@odata.type":
  "#SoftwareInventory.v1_4_0.SoftwareInventory",
  "Description": "Host image",
  "Id": "DPU_OS",
  "Members@odata.count": 1,
  "Name": "Software Inventory",
  "RelatedItem": [
    {
```

```

        "@odata.id": "/redfish/v1/Systems/Bluefield/Bios"
    }
],
"SoftwareId": "",
"Status": {
    "Conditions": [],
    "Health": "OK",
    "HealthRollup": "OK",
    "State": "Enabled"
},
"Updateable": true,
"Version": "DOCA_2.2.0_BSP_4.2.1_Ubuntu_22.04-8.23-07"
}

```

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