



## System FRU

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## FRU Reading Redfish Commands

FRU data is embedded within the chassis schema. To retrieve the relevant FRU data, execute the following Redfish command:

```
curl -k -u root:'<password>' -H 'Content-Type: application/json'  
-X GET https://<bmc_ip>/redfish/v1/Chassis/Card1/
```

The FRU data can be found in the following read attributes:

```
...  
  "Manufacturer": "https://www.mellanox.com",  
  "Model": "BlueField-3 DPU",  
  ...  
  "PartNumber": "900-9D3D4-00EN-HAR",  
  ...  
  "SerialNumber": "MT2421XZ0HDU",  
  ...
```

## FRU Reading IPMI Commands

To retrieve FRU info, run:

```
ipmitool -C 17 -I lanplus -H <bmc_ip> -U ADMIN -P ADMIN fru print
```

System FRU ID 0 contains information for the NVIDIA® BlueField® device:

**i Note**

The following is supported when operating in DPU mode only.

```
FRU Device Description : Builtin FRU Device (ID 0)
Chassis Type          : Main Server Chassis
Chassis Part Number   : 900-9D3D4-00EN-HAA
Chassis Serial        : N/A
Chassis Extra         : N/A
Chassis Extra         : ..
Chassis Extra         : https://www.mellanox.com
Board Mfg Date        : Mon Aug  5 16:39:00 2024
Board Mfg             : https://www.mellanox.com
Board Product         : BlueField-3 DPU
Board Serial          : N/A
Board Part Number     : 900-9D3D4-00EN-HAA
Board Extra           : ..
Product Manufacturer  : https://www.mellanox.com
Product Name          : BlueField-3 DPU
Product Part Number   : 900-9D3D4-00EN-HAA
Product Version       : N/A
Product Serial        : MT2430XZ0A14
Product Asset Tag     : N/A
Product Extra         : ..
```

```
FRU Device Description : Nvidia-BMCMezz (ID 169)
Board Mfg Date         : Mon Aug  5 16:39:00 2024
Board Mfg              : Nvidia
Board Product          : Nvidia-BMCMezz
Board Serial           : MT2430XZ0A14
Board Part Number      : 900-9D3D4-00EN-HAA
```

To print a specific FRU:

```
ipmitool -C 17 -I lanplus -H <bmc_ip> -U ADMIN -P ADMIN fru print  
<fru_id>
```

To dump the binary FRU data into a file:

```
ipmitool -C 17 -I lanplus -H <bmc_ip> -U ADMIN -P ADMIN fru read  
<fru_id> <filename>
```

### **Note**

The parameter `<filename>` is the absolute path to the file.

### **Info**

Using the `ipmitool fru` command displays all the FRU devices detected by the BMC.

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