Known Issues

Re f #	Issue
41 78 70 4	Description: When deleting an IPv4/6 static IP address via the Redfish interface, an unexpected failure message may occur even though the operation has actually succeeded. Example for an IPv6 address: ``` redfish/v1/Managers/Bluefield_BMC/EthernetInterfaces/eth0 -d ``` '{"IPv6StaticAddresses": [{"Address": "0000:0000:0000:0000::0000", "PrefixLength": 64}]}'
	Workaround: N/A
	Discovered in version: 24.10-LTSU1
39 22 87 2	Description: In the `Systems/Bluefield/LogServices/Dump/Entries` Redfish schema, the `Originator` and `OriginatorType` fields are not persistent following a BMC reboot.
	Workaround: N/A
	Discovered in version: 24.10
41 23 37 0	Description: The error notification is not clear on BFB Update when RShim is not owned by the BMC.
	Workaround: N/A
	Discovered in version: 24.10
40 48 67 3	Description: The AllowableValues in the response for a GET request to the `Chassis/Bluefield_ERoT/ResetActionInfo` scheme are not updated by the BMC.
	Workaround: N/A
	Discovered in version: 24.10

Re f #	Issue
41 27 46 1	Description: On BlueField-2, when the BMC comes up after reboot and the SEL buffer is full, it takes about 30 seconds for the BMC to finish setting up all of the SEL entries. Until then, adding more entries or querying the existing ones cannot be done.
	Workaround: N/A
	Discovered in version: 24.10
N/ A	Description: Ownership of RShim may be ambiguous when ownership is forced by a new host causing several BMC features to not work due to the ownership conflict.
	Workaround: Reboot the BMC after moving RShim ownership to a new host. This ensures the BMC correctly synchronizes with the current RShim ownership status.
	Discovered in version: 24.07
38 77 83 5	Description: `openbmctool` is no longer supported.
	Workaround: The supported management interfaces are IPMItool and Redfish.
	Discovered in version: 24.07
40 27 47 8	Description: BMC's IP aliasing feature allows multiple IP addresses to be assigned to a single network interface, which permits the interface to respond to different IP addresses.
	Workaround: N/A
	Discovered in version: 24.07
39 95 90 7	Description: The Redfish schema for BlueField data ports (`Systems/Bluefield/EthernetInterfaces`) displays only the valid IP and MAC addresses. Other attributes associated with this schema should be ignored and considered as not current.
	Workaround: N/A
	Discovered in version: 24.07
39 95 90 7	Description: The update to `ipmitool` version 1.8.19 has introduced inconsistencies between the tool and the BMC implementation, leading to incomplete information being displayed when executing the `lan print` command.
	Workaround: N/A
	Discovered in version: 24.07

Re f #	Issue
39 95 89 9	Description: The DPU BMC is equipped to detect ECC errors from the BlueField Arm system and record these errors in the BMC SEL. For SEL events related to single-bit ECC errors, the BMC does not recognize the resolution status on the BlueField Arm and consequently logs `"Resolved": false` irrespective of the actual state.
	Workaround: N/A
	Discovered in version: 24.07
39 25 81 5	Description: When changing the BMC IPv6 address configuration from static to DHCP, the static IP address in the IPv6 list does not get disabled.
	Workaround: N/A
	Discovered in version: 24.07
38 99 71 9	Description: After executing `sel clear`, the event log in `LogServices` generates `Error.LogsCleared`.
	Workaround: N/A
	Discovered in version: 24.07
40 05 37 3	Description: DPU BMC does not support the following attributes and schemas within the `Systems/Bluefield` Redfish schema: `MemorySummary`, `Memory`, `Processors`, `Storage`, `GraphicalConsole`, and `PowerMode`.
	Workaround: N/A
	Discovered in version: 24.07
39 95 90 6	Description: The BlueField power cycle relies on the PCIe PERST/ALL_STANDBY. If the host does not disconnect the PCIe link, the DPU BMC would cancel the power cycle request to avoid causing server errors. Since the power cycle command is asynchronous, it always returns success; however, if it fails, a new SEL log is created to indicate that the command has not executed.
	Workaround: Get the status from the BMC SEL.
	Discovered in version: 24.07
39 98 66 1	Description: The `ipmitool set static ip` command deletes both IPv4 and IPv6 then creates IPv4 static IP, then changes the IPv4 address causing 1 more create and delete events.
	Workaround: N/A
	Discovered in version: 24.07

Re f #	Issue
39 14 62 9	Description: When "Force PXE" is set right before installing a BFB image via BMC RShim, BlueField PXE boot fails to boot from NET-OOB-IPV4.
	Workaround: N/A
	Discovered in version: 24.04
40 64 37 3	Description: The DPU BMC LLDP represents the eth0 interface. If the user initiates a VLAN interface on top of eth0, the LLDP schema does not function as expected and the transmitted data does not accurately describe the eth0 attribute or the newly created VLAN.
	Workaround: N/A
	Discovered in version: 24.04
39 94 99 0	Description: During a power cycle of the BlueField, the `ipmb_host` driver running on the BlueField OS may crash due to communication issues with the BlueField BMC, causing the BlueField OS to become stuck.
	Workaround: Perform an additional reboot or reset to the BlueField.
	Discovered in version: 24.01
37 25 50 2	Description: Recording user operations takes place regardless of the action's success.
	Workaround: N/A
	Discovered in version: 24.01
35 98 45 0	Description: The boot process may stall following a non-graceful reboot.
	Workaround: Do not issue force reboot to the BlueField BMC.
	Discovered in version: 24.01
36 64 59 6	Description: When declaring only a secondary NTP server, this server acts as the primary one.
	Workaround: N/A
	Discovered in version: 24.01
37 47 28 5	Description: The ipmitool command to force PXE in BMC modifies both the IPMI and Redfish request settings. When Redfish is enabled in UEFI, Redfish takes priority, so all PXE boot entries are attempted and before regular boot continues.
	Workaround: Redfish must be disabled if IPMI force PXE retry behavior is expected.

Re f #	Issue
	Discovered in version: 24.01
36 62 41 7	Description: The Arm UEFI is crucial for rapid system booting, activating the NIC for host network communication. The Arm UEFI tries to fetch Redfish host credentials from the DPU BMC during boot-up. If not done within a designated timeframe, UEFI skips Redfish setup and boots the OS, ignoring any Redfish server settings or updates.
	Workaround: Reboot the BlueField Arm core again.
	Discovered in version: 24.01
36 68 92 5	Description: If a VLAN setup is necessary for a specific interface on the BMC, finish all other network configurations (such as DHCP/STATIC) on the interface before implementing the VLAN setting (because the VLAN inherits all configurations from the existing interface).
	Workaround: 1. Initialize the network interface: ``` ipmitool lan set 1 ipsrc static ipmitool lan set 1 ipaddr <ip> ipmitool lan set 1 netmask <netmask> ipmitool lan set 1 defgw ipaddr <gateway-ip> ``` 2. Set the VLAN: ``` ipmitool lan set 1 vlan id <vlan-id> ```
	Discovered in version: 23.10
35 34 15 0	Description: The BMC and BlueField utilize a shared IPMB channel for IPMI communication. If multiple requests coincide on this interface, users may encounter command failures with timeout indications.
	Workaround: Raise the retry counter for IPMItool requests by using the command `ipmitool -R 20 *`.
	Discovered in version: 23.10

Re f #	Issue
36 31 19 9	Description: If Redfish is enabled in the UEFI menu (default), then Secure Boot configuration done from Redfish overrides Secure Boot configuration done from UEFI.
	Workaround: Disable Redfish in UEFI menu and update secure boot state.
	Discovered in version: 23.10
36 54 93 0	Description: If the BlueField BMC firmware has been upgraded from version 2.8.2-x or older to version 23.03 or newer, it is necessary to execute a <u>factory reset</u> of the BlueField BMC.
	Workaround: N/A
	Discovered in version: 23.03
36 37 52 7	Description: The BlueField Redfish BIOS/UEFI supports only UEFI mode for `BootSourceOverrideMode`. If a user configures the `BootSourceOverrideMode` to `legacy`, all override settings are disregarded by the BIOS/UEFI.
	Workaround: Set `BootSourceOverrideMode` to `UEFI`.
	Discovered in version: 23.10
36 34 64 9	Description: In the Redfish `Systems/Bluefield` schema, the `LastResetTime` attribute does not accurately capture the system reset values.
	Workaround: N/A
	Discovered in version: 23.09
36 34 60 3	Description: When the BlueField operates in NIC mode, the Arm core does not load any OS. In this scenario, any BMC functionality that relies on extracting data from the OS through the IPMB channel will be unavailable or limited. including: • Firmware inventory schema • Chassis schema • Sensors
	Workaround: N/A
	Discovered in version: 23.10
36 09	Description: Following a reboot of BlueField's BMC, it is necessary to wait 30 seconds to allow for the complete loading of system services before initiating a reboot of BlueField itself.

Ref #	Issue
525	Workaround: N/A
	Discovered in version: 23.09
3590634	Description: When updating the BMC's firmware, it is critical to maintain the system powered on until the update process is finished.
	Workaround: N/A
	Discovered in version: 23.09
3599824	Description: In NIC mode, the BMC's Redfish chassis schema contains only limited information about BlueField. This is because, in this mode, the OS is not available to supply the necessary information to the BMC.
	Workaround: N/A
	Discovered in version: 23.09
3605254	Description: Following a system power cycle, both the BlueField and BMC boot independently which may lead to BlueField's UEFI boot process to complete before the BMC's. As a result, when attempting to establish Redfish communication, the BMC may not yet be prepared to respond.
	Workaround: Power cycle; Redfish; boot
	Discovered in version: 23.09
3388059	Description: When BlueField-2 boots and its services are loaded, there is a possibility that the IPMI over RMCP may become unresponsive due to the default timeout for commands being set to 1 second.
	Workaround: Increase the default timeout to 10 seconds when sending IPMI RMCP commands using the `-N` option. Example command: ```sudo ipmitool -I lanplus -C 17 -N 10 -H <BMC-IP> -U <BMC-User> -P <BMC-Password> mc info```
	Discovered in version: N/A

and any other changes to this document, at any time without notice.

Customer should obtain the latest relevant information before placing orders and should verify that such information is current and complete.

NVIDIA products are sold subject to the NVIDIA standard terms and conditions of sale supplied at the time of order acknowledgement, unless otherwise agreed in an individual sales agreement signed by authorized representatives of NVIDIA and customer ("Terms of Sale"). NVIDIA hereby expressly objects to applying any customer general terms and conditions with regards to the purchase of the NVIDIA product referenced in this document. No contractual obligations are formed either directly or indirectly by this document.

NVIDIA products are not designed, authorized, or warranted to be suitable for use in medical, military, aircraft, space, or life support equipment, nor in applications where failure or malfunction of the NVIDIA product can reasonably be expected to result in personal injury, death, or property or environmental damage. NVIDIA accepts no liability for inclusion and/or use of NVIDIA products in such equipment or applications and therefore such inclusion and/or use is at customer's own risk.

NVIDIA makes no representation or warranty that products based on this document will be suitable for any specified use. Testing of all parameters of each product is not necessarily performed by NVIDIA. It is customer's sole responsibility to evaluate and determine the applicability of any information contained in this document, ensure the product is suitable and fit for the application planned by customer, and perform the necessary testing for the application in order to avoid a default of the application or the product. Weaknesses in customer's product designs may affect the quality and reliability of the NVIDIA product and may result in additional or different conditions and/or requirements beyond those contained in this document. NVIDIA accepts no liability related to any default, damage, costs, or problem which may be based on or attributable to: (i) the use of the NVIDIA product in any manner that is contrary to this document or (ii) customer product designs.

No license, either expressed or implied, is granted under any NVIDIA patent right, copyright, or other NVIDIA intellectual property right under this document. Information published by NVIDIA regarding third-party products or services does not constitute a license from NVIDIA to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property rights of the third party, or a license from NVIDIA under the patents or other intellectual property rights of NVIDIA.

Reproduction of information in this document is permissible only if approved in advance by NVIDIA in writing, reproduced without alteration and in full compliance with all applicable export laws and regulations, and accompanied by all associated conditions, limitations, and notices.

THIS DOCUMENT AND ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL NVIDIA BE LIABLE FOR ANY DAMAGES, INCLUDING WITHOUT LIMITATION ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF ANY USE OF THIS DOCUMENT, EVEN IF NVIDIA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Notwithstanding any damages that customer might incur for any reason whatsoever, NVIDIA's aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms of Sale for the product.

Trademarks

NVIDIA and the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. Other company and product names may be trademarks of the respective companies with which they are associated.