

Technical Support Bulletin

001

MX7000 chassis auto discovery mechanism is impeded when Amulet Mezzanine cards are installed in sleds

Summary

This document applies to SmartFabric sled discovery, Fabric Expansion Module (FEM) discovery and status reporting of other vendors mezzanine cards.

The MX7000 automated discovery mechanism, including SmartFabric, does not discover installed chassis modules when an Amulet Hotkey CoreModule GPU accelerator mezzanine card is present.

The Amulet Hotkey MX7000 CoreModule GPU accelerator module comprises:

- an expansion module, installed in Fabric B in the rear of the chassis;
- an Amulet Hotkey Fabric B mezzanine card installed within a Compute Sled.

Description

If any of the Compute Sleds are populated with product version (PV) 1.0 or 1.1 of the Amulet Hotkey mezzanine card (CoreCard) then one or more of the following issues may be observed:

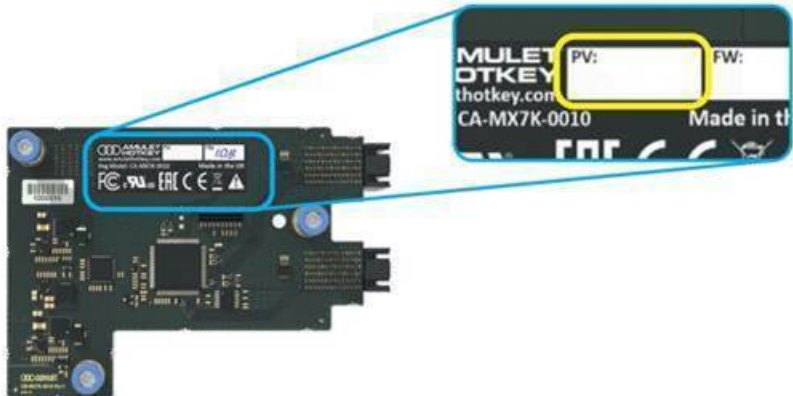
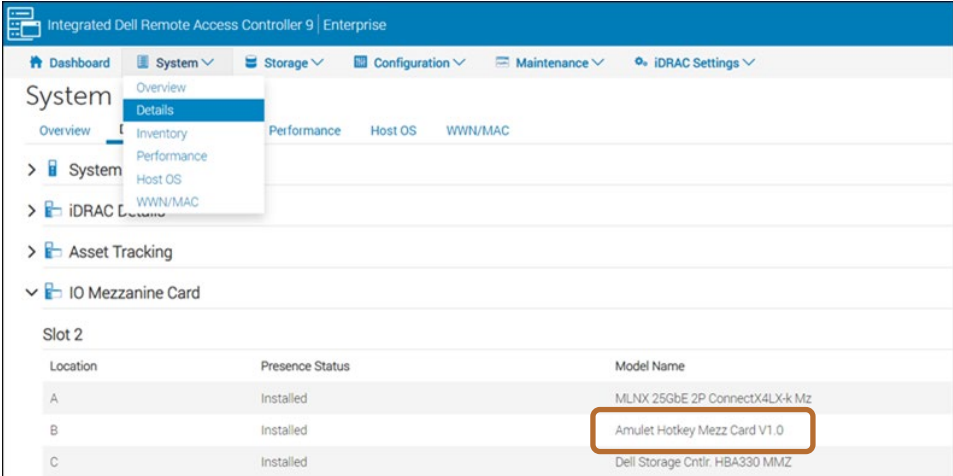
- Compute Sled is not discovered as part of the SmartFabric creation;
- Compute Sled added to an existing SmartFabric are not discovered;
- other vendor's mezzanine cards do not report information and status correctly when interrogated via the iDRAC;
- MX7000 Fabric Expansion Modules (FEM) such as MX7116n, may not be discovered;
- additional issues not listed, present only when the Amulet Hotkey mezzanine card is installed.

Note: This affects all firmware versions for these hardware product versions.


If you experience any of the above, then follow the solution detailed in this document.

Determine the revision of an Amulet Hotkey Mezzanine card (CoreCard)

Use one of the following methods.

Method	Action
1	<p>Physical inspection of the mezzanine card</p> <ul style="list-style-type: none"> Manufacturer : Amulet Hotkey Part Number : CA-MX7K-0010 Product Version (PV) : X.Y.z (the .z value can be ignored) 
2	<p>Interrogation via iDRAC</p> <p>Open the iDRAC web page, select System > Details and expand the IO Mezzanine Card.</p> <p><i>The board revision displays in the location B Model Name, in the example below this is V1.0.</i></p> 

Solution

If...	and...	then...
you observe any of the issues detailed in this PSQN	the Amulet Hotkey mezzanine card part number CA-MX7K-0010 is present with revision 1.0 or 1.1	contact Amulet Hotkey Support for shipment of a Field Replacement Kit and instructions. 

Note: If either the part number or revision numbers do not match those detailed above then do not replace. Contact Amulet Hotkey support for assistance on issues you may be experiencing.

Procedure

Step	Action				
1	Get the Field Replacement Kit from Amulet Hotkey Ltd (see table above).				
2	Replace any Amulet Hotkey mezzanine cards with the following details: <table border="1" data-bbox="402 1123 1416 1255"> <thead> <tr> <th data-bbox="402 1123 911 1194">Amulet Hotkey Part number</th> <th data-bbox="911 1123 1416 1194">Revisions</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 1194 911 1255">CA-MX7K-0010</td> <td data-bbox="911 1194 1416 1255">1.0 or 1.1</td> </tr> </tbody> </table> See the CoreCard Field Replacement Guide for details on how to replace the mezzanine cards.	Amulet Hotkey Part number	Revisions	CA-MX7K-0010	1.0 or 1.1
Amulet Hotkey Part number	Revisions				
CA-MX7K-0010	1.0 or 1.1				
3	After replacement of the mezzanine card: <ul style="list-style-type: none"> ▪ any SmartFabric creation will discover the sled (also for any new sled that is introduced to an existing SmartFabric deployment); ▪ if the SmartFabric was not working or not created, then follow the Dell SmartFabric creation procedure to complete your setup; ▪ other vendor's mezzanine cards will now report their status correctly and FEMs will also be discoverable. ▪ this procedure is complete. No additional actions are required to resolve discovery issues. 				

Temporary workaround for SmartFabric related issues

Overcome issues relating to the creation of the SmartFabric temporarily with the following steps.

Step	Action
1	Install sleds without Amulet Hotkey mezzanine cards present.
2	Create SmartFabric.
3	Remove sleds and install Amulet Hotkey mezzanine cards.
4	Re-install sleds.

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