BROADCOM® Release Notes: GCA:ItSas35 v2.61.54.00 Phase 25 Windows Driver

ReleaseOrder ID:	*DCSG01331305*
Headline:	*GCA:ItSas35 v2.61.54.00 Phase 25 Windows Driver*
Release Version:	*2.61.54.00*
UCM Project:	*IT_WindowsDrv*
Sub UCM Project:	*IT_WindowsDrv_Ph25*
UCM Stream:	
Release Type:	*GCA*
State:	*Released*
Release Baseline:	*Release-IT_WindowsDrv_Ph25-2.61.54.00-2022.09.29.10.31.34*
Release Date:	*2022-09-29 10:31:15.000000*
Date Generated:	*Oct 25, 2022*

Defects Fixed (1):

ID:	DCSG01331264
Headline:	Failed to decode the HDB read by application for host trace buffer allocated by switch driver.
Description Of Change:	Clean the memory before posting the host trace buffer post MPI command to firmware.
Issue Description:	The Host Diag buffer was not cleared by the host driver before posting it to firmware, so there were some stale datas in the buffer which was causing the trace buffer not to be decoded successfully.
Steps To Reproduce:	Its been observed that while decoding the host diag buffer file, it shows lot of errors and junk datas.

Release History

- **DCSG01329943 - Beta:ItSas35 v2.61.53.00 Phase 25 Windows Driver**
- **DCSG01326868 - Beta:ItSas35 v2.61.52.00 Phase 25 Windows Driver**
- **DCSG01322094 - Beta:ItSas35 v2.61.51.00 Phase 25 Windows Driver**
- **DCSG01270912 - Beta:ItSas35 v2.61.50.00 Phase 25 Windows Driver**
- **DCSG01259519 - SAS3.5 Ph-25: Pre-Alpha Windows ItSas35 driver - 2.61.49.00**

ReleaseOrder ID:	*DCSG01329943* Open In CQWeb
Headline:	*Beta:ItSas35 v2.61.53.00 Phase 25 Windows Driver*
Release Version:	*2.61.53.00*
UCM Project:	*IT_WindowsDrv*
Sub UCM Project:	*IT_WindowsDrv_Ph25*
UCM Stream:	
Release Type:	*Beta*
State:	*Released*
Release Baseline:	*Release-IT_WindowsDrv_Ph25-2.61.53.00-2022.09.28.04.21.51*
Release Date:	*2022-09-28 04:21:26.000000*
Date Generated:	*Oct 25, 2022*

Defects Fixed (1):

ID:	DCSG01328223
Headline:	Diag buffer post to firmware failed or not posted during Driver Init For Switch
Description Of Change:	the INF file is modified to allow the user to set windows driver registry value.
Issue Description:	While posting the Diag buffer post command, the buffer start address needs to be DWORD alligned.
	For Switch, Man page 11 is not supported yet. So the values for setting up diag buffer are not available in driver that is why the posting of the buffer was failing. For switch, the user has to use the driver registry settings to setup the diag buffer values as below.
	Below registry needs to be used.
	Configure the following in the Registry.
	KEY: DriverParameter @ HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\mpi2ses\Parameters\Device
	VALUE: EnaDiag = 1;TBuffSize = 4194304;TImmed = 1;
	the buffer size has to be in KB alligned , in the above example it is set as 4MB (4 * 1024 *1024). for Switch, currently the max size of 4MB is supported.
Steps To Reproduce:	In the Windows system connected to Switch,The Host diag buffer is not getting registered when the driver is loaded .
	Expected : In windows the host diag buffer should get allocated after switch driver is loaded.

ReleaseOrder ID:	*DCSG01326868* Open In CQWeb
Headline:	*Beta:ItSas35 v2.61.52.00 Phase 25 Windows Driver*
Release Version:	*2.61.52.00*
UCM Project:	*IT_WindowsDrv*
Sub UCM Project:	*IT_WindowsDrv_Ph25*
UCM Stream:	
Release Type:	*Beta*
State:	*Released*
Release Baseline:	*Release-IT_WindowsDrv_Ph25-2.61.52.00-2022.09.23.03.52.13*
Release Date:	*2022-09-23 03:51:54.000000*
Date Generated:	*Oct 25, 2022*

Defects Fixed (2):

ID:	DCSG01323337
Headline:	Change the readme file for the WHQL update driver issue.
Description Of Change:	As per MSDN documentation for Windows, updating from test or HDC signing driver to WHQL driver is not supported and doing so can cause various issues. So those entries need to be removed from driver store using pnputil. The same information has been updated in the "readme" file provided in the driver pacakage so the user can be aware of this situation and act accordingly.
Issue Description:	this is mainly surfaced when the user had updated previously HDC or Test signed driver and updating from HDC/Test signed driver to WHQL driver is causing some reboot issue and system crash.
Steps To Reproduce:	this is mainly surfaced when the user had updated previously HDC signed driver and updating from HDC signed driver to WHQL driver is causing some reboot issue and system crash.

ID:	DCSG01324865
Headline:	Phase 25 Windows driver provider information is not consistent across controller properties and driver details.
Description Of Change:	In the both inbox and outbox INF files for both storage and switch, the provided information is changed to "Broadcom Inc" from "Avago technologies"
Issue Description:	In Controller properties Driver provider information is showing as " Avago technologies" and in driver details it is showing as "Broadcom Inc".
Steps To Reproduce:	In Controller properties Driver provider information is showing as " Avago technologies" and in driver details it is showing as "Broadcom Inc".

ReleaseOrder ID:	*DCSG01322094* Open In CQWeb
Headline:	*Beta:ItSas35 v2.61.51.00 Phase 25 Windows Driver*

Release Version: **2.61.51.00**
UCM Project: **IT_WindowsDrv**
Sub UCM Project: **IT_WindowsDrv_Ph25**
UCM Stream:
Release Type: **Beta**
State: **Released**
Release Baseline: **Release-IT_WindowsDrv_Ph25-2.61.51.00-2022.09.16.08.48.42**
Release Date: **2022-09-16 08:47:49.000000**
Date Generated: **Oct 25, 2022**

Defects Fixed (1):

ID: DCSG01317286
Headline: Copyright details shows as Avago only instead of Broadcom for IT Phase 25 IT Windows Driver
Description Of Change: In the resource file the company string name has been changed to "Broadcom Inc" from Avago
Issue Description: Copyright details shows as Avago only instead of Broadcom for IT Phase 25 IT Windows Driver
Steps To Reproduce: Copyright details shows as Avago only instead of Broadcom for IT Phase 25 IT Windows Driver

ReleaseOrder ID: **DCSG01270912** Open In CQWeb
Headline: **Beta:ItSas35 v2.61.50.00 Phase 25 Windows Driver**
Release Version: **2.61.50.00**
UCM Project: **IT_WindowsDrv**
Sub UCM Project: **IT_WindowsDrv_Ph25**
UCM Stream:
Release Type: **Beta**
State: **Released**
Release Baseline: **Release-IT_WindowsDrv_Ph25-2.61.50.00-2022.07.21.09.00.23**
Release Date: **2022-07-21 08:59:49.000000**
Date Generated: **Oct 25, 2022**

Enhancements Implemented (2):

ID: DCSG01228199
Headline: ARM64 Windows Server 2022 support for IT driver.
Description Of Change: Readme fild has been updated to include the new OS support. BuildParameter files are updated to include the recommended WDK and SDK for Server 2022 ARm64 build for both ItSas35 and Mpi2Ses Drivers.

ID: DCSG01233588
Headline: The large topology support is enabled in ItSas35 Windows Driver
Description Of Change: The current IT windows driver has capability to handle the large topology.

ReleaseOrder ID: **DCSG01259519** Open In CQWeb
Headline: **SAS3.5 Ph-25: Pre-Alpha Windows ItSas35 driver - 2.61.49.00**
Release Version: **2.61.49.00**
UCM Project: **IT_WindowsDrv**
Sub UCM Project: **IT_WindowsDrv_Ph25**
UCM Stream:
Release Type: **Pre-Alpha**
State: **Released**
Release Baseline: **Release-IT_WindowsDrv_Ph25-2.61.49.00-2022.07.06.10.27.22**
Release Date: **2022-07-06 10:26:59.000000**
Date Generated: **Oct 25, 2022**

Enhancements Implemented (1):

ID: DCSG01220509
Headline: OEM specific PnP ID addition
Description Of Change: Both inbox and OOB INF files are modified to include the OEM specific IDs and string under device manger.