**New Functions:**

Added NvAPI\_GPU\_NVLINK\_GetCaps

Added NvAPI\_GPU\_NVLINK\_GetStatus

Added NvAPI\_GPU\_GetGPUInfo

Added NvAPI\_DISP\_GetEdidData

Added NvAPI\_D3D12\_EnableRaytracingValidation

Added NvAPI\_D3D12\_RegisterRaytracingValidationMessageCallback

Added NvAPI\_D3D12\_UnregisterRaytracingValidationMessageCallback

Added NvAPI\_D3D12\_FlushRaytracingValidationMessages

**New Structures:**

Added NVLINK\_GET\_CAPS\_V1

Added NVLINK\_DEVICE\_INFO\_V1

Added NVLINK\_LINK\_STATUS\_INFO\_V1

Added NVLINK\_LINK\_STATUS\_INFO\_V2

Added NVLINK\_GET\_STATUS\_V1

Added NVLINK\_GET\_STATUS\_V2

Added NV\_GPU\_INFO\_V1

Added NV\_GPU\_INFO\_V2

Added NV\_EDID\_DATA\_V1

Added NV\_EDID\_DATA\_V2

**New Enums:**

Added NV\_EDID\_FLAG

Added NVAPI\_NVLINK\_DEVICE\_INFO\_DEVICE\_TYPE

Added NVAPI\_NVLINK\_STATUS\_LINK\_STATE

Added NVAPI\_NVLINK\_STATUS\_SUBLINK\_RX\_STATE

Added NVAPI\_NVLINK\_STATUS\_SUBLINK\_TX\_STATE

Added NVAPI\_D3D12\_RAYTRACING\_VALIDATION\_FLAGS

Added NVAPI\_D3D12\_RAYTRACING\_VALIDATION\_MESSAGE\_SEVERITY

**New Unions:**

**New MACRO:**

Added NV\_EDID\_DATA\_SIZE\_MAX

Added NVAPI\_NVLINK\_COUNTER\_MAX\_TYPES

Added NVAPI\_NVLINK\_MAX\_LINKS

Added NVAPI\_NVLINK\_CAPS\_SUPPORTED

Added NVAPI\_NVLINK\_CAPS\_P2P\_SUPPORTED

Added NVAPI\_NVLINK\_CAPS\_SYSMEM\_ACCESS

Added NVAPI\_NVLINK\_CAPS\_P2P\_ATOMICS

Added NVAPI\_NVLINK\_CAPS\_SYSMEM\_ATOMICS

Added NVAPI\_NVLINK\_CAPS\_PEX\_TUNNELING

Added NVAPI\_NVLINK\_CAPS\_SLI\_BRIDGE

Added NVAPI\_NVLINK\_CAPS\_SLI\_BRIDGE\_SENSABLE

Added NVAPI\_NVLINK\_CAPS\_POWER\_STATE\_L0

Added NVAPI\_NVLINK\_CAPS\_POWER\_STATE\_L1

Added NVAPI\_NVLINK\_CAPS\_POWER\_STATE\_L2

Added NVAPI\_NVLINK\_CAPS\_POWER\_STATE\_L3

Added NVAPI\_NVLINK\_CAPS\_VALID

Added NVAPI\_NVLINK\_CAPS\_NVLINK\_VERSION\_INVALID

Added NVAPI\_NVLINK\_CAPS\_NVLINK\_VERSION\_1\_0

Added NVAPI\_NVLINK\_CAPS\_NVLINK\_VERSION\_2\_0

Added NVAPI\_NVLINK\_CAPS\_NCI\_VERSION\_INVALID

Added NVAPI\_NVLINK\_CAPS\_NCI\_VERSION\_1\_0

Added NVAPI\_NVLINK\_CAPS\_NCI\_VERSION\_2\_0

Added NVAPI\_NVLINK\_DEVICE\_INFO\_DEVICE\_ID\_FLAGS\_NONE

Added NVAPI\_NVLINK\_DEVICE\_INFO\_DEVICE\_ID\_FLAGS\_PCI

Added NVAPI\_NVLINK\_DEVICE\_INFO\_DEVICE\_ID\_FLAGS\_UUID

Added NVAPI\_NVLINK\_STATUS\_PHY\_NVHS

Added NVAPI\_NVLINK\_STATUS\_PHY\_GRS

Added NVAPI\_NVLINK\_STATUS\_PHY\_INVALID

Added NVAPI\_NVLINK\_STATUS\_NVLINK\_VERSION\_1\_0

Added NVAPI\_NVLINK\_STATUS\_NVLINK\_VERSION\_2\_0

Added NVAPI\_NVLINK\_STATUS\_NVLINK\_VERSION\_INVALID

Added NVAPI\_NVLINK\_STATUS\_NCI\_VERSION\_1\_0

Added NVAPI\_NVLINK\_STATUS\_NCI\_VERSION\_2\_0

Added NVAPI\_NVLINK\_STATUS\_NCI\_VERSION\_INVALID

Added NVAPI\_NVLINK\_STATUS\_NVHS\_VERSION\_1\_0

Added NVAPI\_NVLINK\_STATUS\_NVHS\_VERSION\_INVALID

Added NVAPI\_NVLINK\_STATUS\_GRS\_VERSION\_1\_0

Added NVAPI\_NVLINK\_STATUS\_GRS\_VERSION\_INVALID

Added NVAPI\_NVLINK\_STATUS\_CONNECTED\_TRUE

Added NVAPI\_NVLINK\_STATUS\_CONNECTED\_FALSE

Added NVAPI\_NVLINK\_STATUS\_LOOP\_PROPERTY\_LOOPBACK

Added NVAPI\_NVLINK\_STATUS\_LOOP\_PROPERTY\_LOOPOUT

Added NVAPI\_NVLINK\_STATUS\_LOOP\_PROPERTY\_NONE

Added NVAPI\_NVLINK\_STATUS\_REMOTE\_LINK\_NUMBER\_INVALID

Added NVAPI\_NVLINK\_REFCLK\_TYPE\_INVALID

Added NVAPI\_NVLINK\_REFCLK\_TYPE\_NVHS

Added NVAPI\_NVLINK\_REFCLK\_TYPE\_PEX

**New Errors:**

**TCC Support:**

**NVAPI Security Info:**

NvAPI\_GSync\_SetSyncStateSettings now needs admin privileges

NvAPI\_GSync\_SetControlParameters now needs admin privileges

**Deprecation NvAPI functions:**

**Deprecation Enum values:**

**NvAPIDriverSettings additions/ removal:**

Removed enum value PS\_SHADERDISKCACHE\_FLAGS\_BACKEND\_GFN\_DLL from EValues\_PS\_SHADERDISKCACHE\_FLAGS

Added enum value PS\_SHADERDISKCACHE\_FLAGS\_BACKEND\_DLL to EValues\_PS\_SHADERDISKCACHE\_FLAGS

Added enum value PS\_SHADERDISKCACHE\_FLAGS\_ALL\_BUILDS\_MISMATCH\_TEST to EValues\_PS\_SHADERDISKCACHE\_FLAGS

**HLSL Extentions additions/ removal:**