



NVAPI SDK - PUBLIC FOR DRIVER RELEASE 352

RN-06118-352-v02 | July 2015

Release Notes



DOCUMENT CHANGE HISTORY

RN-06118-352-v02

Version	Date	Authors	Description of Change
01	6/01/2014	AP/CC	Initial release
02	7/24/2015	AP/CC	Second Release

NVAPI RELEASE NOTES

INTRODUCTION

NVAPI is NVIDIA's core software development kit that allows direct access to NVIDIA GPUs and drivers on all windows platforms. NVAPI provides support for categories of operations that range beyond the scope of those found in familiar graphics APIs such as DirectX and OpenGL. These release notes describe the changes made in the NVAPI public SDK for the Release 352 driver. The following are the provided files:

- ▶ nvapi.h
- ▶ nvapi_lite_common.h
- ▶ nvapi_lite_d3dext.h
- ▶ nvapi_lite_salend.h
- ▶ nvapi_lite_salstart.h
- ▶ nvapi_lite_sli.h
- ▶ nvapi_lite_stereo.h
- ▶ nvapi_lite_surround.h
- ▶ NvApiDriverSettings.c
- ▶ NvApiDriverSettings.h
- ▶ nvHLSLExtns.h
- ▶ nvHLSLExtnsInternal.h
- ▶ nvShaderExtnEnums.h
- ▶ nvapi.lib
- ▶ nvapi64.lib
- ▶ NVAPI_Reference_Developer.chm

CHANGES IN NVAPI FOR DRIVER RELEASE 352

- [Functions](#)
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Functions

- ▶ `NvAPI_D3D1x_HintCreateLowLatencyDevice`
- ▶ `NvAPI_D3D11_MultiGPU_GetCaps`
- ▶ `NvAPI_D3D11_MultiGPU_Init`
- ▶ `NvAPI_D3D11_CreateMultiGPUDevice`

TCC support added to the following functions:

- ▶ N/A

Structures

- ▶ `NV_MOSAIC_DISPLAY_SETTING_V2`
- ▶ `NV_MOSAIC_SUPPORTED_TOPO_INFO_V2`
- ▶ `NV_MULTIGPU_CAPS`

Enums

- ▶ `NVAPI_D3D_SRH_SLI_ASK_FOR_BROADCAST_USAGE` added to `NVAPI_D3D_SETRESOURCEHINT_SLI`

New ID3D11MultiGPUDevice DX Interface

Methods

- ▶ `Destroy`
- ▶ `SetGPUMask`
- ▶ `CopySubresourceRegion`

- ▶ CopySubresourceRegion1
- ▶ UpdateSubresource
- ▶ VSSetConstantBuffers
- ▶ PSSetConstantBuffers
- ▶ GSSetConstantBuffers
- ▶ DSSetConstantBuffers
- ▶ HSSetConstantBuffers
- ▶ CSSetConstantBuffers
- ▶ SetViewports
- ▶ SetScissorRects
- ▶ GetData
- ▶ UpdateTiles
- ▶ CreateFences
- ▶ SetFence
- ▶ WaitForFence
- ▶ FreeFences
- ▶ PresentCompositingConfig

Deprecated NVAPI Functions

The following functions will be deprecated and replaced by new functions in coming releases:

Deprecated	Replaced By
N/A	N/A

NVAPIDriverSettings Additions/Removals

- ▶ VRR_APP_OVERRIDE_REQUEST_STATE_ID
- ▶ EValues_VRR_APP_OVERRIDE_REQUEST_STATE

HLSL Extension Additions

- ▶ N/A

About the Sample Code

Sample code is provided with the SDK package that demonstrates the following features:

- ▶ CustomTiming
- ▶ DisplayConfiguration
- ▶ I2C
- ▶ Sync_Configuration

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