



NVAPI SDK - PUBLIC FOR DRIVER RELEASE 343

RN-06118-343-v01 | September 2014

Release Notes



DOCUMENT CHANGE HISTORY

RN-06118-343-v01

Version	Date	Authors	Description of Change
01	09/30/2014	AP/CC	Initial 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.

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_html
- ▶ NVAPI_Reference_Developer.chm

These release notes describe the changes made in the NVAPI public SDK for the Release 343 driver.

CHANGES IN NVAPI FOR DRIVER RELEASE 343

- [Functions](#)
- [Structures](#)
- [Enums](#)
- [Deprecated NVAPI Functions](#)
- [NVAPIDriverSettings Changes](#)
- [HLSL Extension Additions](#)
- [Sample Code](#)

Functions

- ▶ `NvAPI_D3D11_CreateRasterizerState`
- ▶ `NvAPI_D3D11_RSSetViewports`
- ▶ `NvAPI_D3D11_AliasMSAATexture2DAsNonMSAA`

TCC support added to the following functions:

- ▶ N/A

Structures

- ▶ `NV_HDMI_SUPPORT_INFO_V1`
- ▶ `NV_HDMI_SUPPORT_INFO_V2`
- ▶ `NvAPI_D3D11_RASTERIZER_DESC_EX`
- ▶ `NvAPI_D3D11_VIEWPORT_EX`

Enums

- ▶ `NV_DISPLAY_TV_FORMAT_UHD_4Kp30_3840` added to `NV_DISPLAY_TV_FORMAT`
- ▶ `NV_DISPLAY_TV_FORMAT_UHD_4Kp25_3840` added to `NV_DISPLAY_TV_FORMAT`
- ▶ `NV_DISPLAY_TV_FORMAT_UHD_4Kp24_3840` added to `NV_DISPLAY_TV_FORMAT`
- ▶ `NV_DISPLAY_TV_FORMAT_UHD_4Kp50_3840` added to `NV_DISPLAY_TV_FORMAT`
- ▶ `NV_DISPLAY_TV_FORMAT_UHD_4Kp60_3840` added to `NV_DISPLAY_TV_FORMAT`

- ▶ NV_DISPLAY_TV_FORMAT_UHD_4Kp30_4096 added to NV_DISPLAY_TV_FORMAT
- ▶ NV_DISPLAY_TV_FORMAT_UHD_4Kp25_4096 added to NV_DISPLAY_TV_FORMAT
- ▶ NV_DISPLAY_TV_FORMAT_UHD_4Kp24_4096 added to NV_DISPLAY_TV_FORMAT
- ▶ NV_DISPLAY_TV_FORMAT_UHD_4Kp50_4096 added to NV_DISPLAY_TV_FORMAT
- ▶ NV_DISPLAY_TV_FORMAT_UHD_4Kp60_4096 added to NV_DISPLAY_TV_FORMAT
- ▶ NVAPI_QUAD_FILLMODE

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

- ▶ PS_FRAMERATE_MONITOR_CTRL_ID
- ▶ VRPRERENDERLIMIT_ID
- ▶ MAXWELL_B_SAMPLE_INTERLEAVE_ID
- ▶ PS_DYNAMIC_TILING_ID **removed**
- ▶ EValues_PS_FRAMERATE_MONITOR_CTRL
- ▶ EValues_VRPRERENDERLIMIT
- ▶ EValues_MAXWELL_B_SAMPLE_INTERLEAVE
- ▶ EValues_PS_DYNAMIC_TILING **removed**

HLSL Extension Additions

- ▶ `NvInterlockedAddFp16x2` and overloaded functions
- ▶ `NvInterlockedMinFp16x2` and overloaded functions

- ▶ `NvInterlockedMaxFp16x2` and overloaded functions
- ▶ `NvInterlockedAddFp32` and overloaded functions

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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