

NVAPI Public SDK for Driver Release 530

Release Notes

Table of Contents

| NVAPI Release Notes | 3 |
|---|---|
| Introduction | 3 |
| Changes in NVAPI for Driver Release 530 | 4 |
| New Functions | 4 |
| New/Updated Structures | 4 |
| New/Updated Enums | 4 |
| New/Updated Unions | 4 |
| New Macros | 4 |
| TCC Support | 4 |
| Deprecated NVAPI Functions | 4 |
| NVAPIDriverSettings Removals | 5 |
| HLSL Extension Additions | 5 |
| New Errors | 5 |
| NVAPI Security Information | 5 |
| About the Sample Code | 5 |
| Notice | 6 |

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 files are provided by NVIDIA:

- 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
- \x86\nvapi.lib
- \amd64\nvapi64.lib
- \doc\NVAPI_Reference_Developer.chm
- \doc\NVAPI SDKs Samples and Tools License Agreement (Public).pdf

These release notes describe the changes made in the NVAPI NDA SDK for the Release 530 driver.

Changes in NVAPI for Driver Release 530

New Functions

- Added NvAPI_D3D_SetVerticalSyncMode
- Added NvAPI_D3D_SetReflexSync
- Added NvAPI_DirectD3D12GraphicsCommandList_Create
- Added NvAPI_DirectD3D12GraphicsCommandList_Release
- Added NvAPI_DirectD3D12GraphicsCommandList_Reset

New/Updated Structures

- Added bFsVrr to struct NV_GET_SLEEP_STATUS_PARAMS_V1
- Added bCplVsyncOn to struct NV_GET_SLEEP_STATUS_PARAMS_V1
- Added NV_SET_REFLEX_SYNC_PARAMS_V1

New/Updated Enums

Added NVAPI_VSYNC_MODE

New/Updated Unions

None

New Macros

None

TCC Support

None

Deprecated NVAPI Functions

None

NVAPIDriverSettings Removals

None

HLSL Extension Additions

None

New Errors

None

NVAPI Security Information

User administrator privilege is required to access certain driver features per NVIDIA's overall security vision. This helps mitigate the impact of malware.

Each API requiring administrator access, will return a NVAPI_INVALID_USER_PRIVILEGE error, when run with standard user privilege.

The application will require Administrator privileges to access this API, which can be elevated to a higher permission level by selecting "Run as Administrator" in Admin approval mode.

About the Sample Code

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

- Custom Timing
- Display Color Control
- Display Configuration
- I2C
- QSYNC Event Registration
- Sync_Configuration

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