

Mystic Light Software Development Kit

Reference Documentation

Version 1.0.0.08

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Desktop Platform Solution Division Software Department

Overview

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- New/Update Functions
- Function APIs
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- MLAPI Status Values

Introduction

- This SDK is provides the LED control functions for MSI products such as MSI Motherboards, Graphics Cards, Desktops, Laptops, peripherals, etc.
- This SDK is based on the Microsoft development environment that supports Microsoft Visual Studio C++ and C# programming language.

System Requirements

- This SDK is supported on Windows 7 / 8 / 8.1 / 10 / 11, both 32-bit and 64-bit architectures.
- MSI Mystic Light related applications must be installed before using the SDK function.

New/Update Functions

- Added FPS performance Optimization.
- Added processor utilization Improvement.

Function APIs

int MLAPI_GetErrorMessage(**int**, **BSTR***)

This function converts a MLAPI error code into general string.

int MLAPI_Initialize()

This function initializes the APIs.

int MLAPI_Release()

This function release the APIs.

int MLAPI_GetDeviceInfo(**SAFEARRAY****, **SAFEARRAY****)

This function retrieves information of all devices

int MLAPI_GetDeviceName(**BSTR**, **SAFEARRAY****)

This function retrieves the friendly name of specific device.

int MLAPI_GetDeviceNameEx(**BSTR**, **DWORD**, **BSTR***)

This function retrieves the friendly name of specific device.

int MLAPI_GetLedInfo(**BSTR**, **DWORD**, **BSTR***, **SAFEARRAY****)

This function retrieves the LED display name and enumerate the LED styles.

int MLAPI_GetLedName(**BSTR**, **SAFEARRAY****)

This function retrieves the all LED name of specific device.

int MLAPI_GetLedColor(**BSTR**, **DWORD**, **DWORD***, **DWORD***, **DWORD***)

This function retrieves the specific LED current color.

int MLAPI_GetLedStyle(**BSTR**, **DWORD**, **BSTR***)

This function retrieves the specific LED current style.

int MLAPI_GetLedMaxBright(**BSTR**, **DWORD**, **DWORD***)

This function retrieves a specific LED supports the maximum brightness level.

int MLAPI_GetLedBright(**BSTR**, **DWORD**, **DWORD***)

This function retrieves the specific LED current brightness level.

int MLAPI_GetLedMaxSpeed(**BSTR**, **DWORD**, **DWORD***)

This function retrieves a specific LED supports the maximum speed level.

int MLAPI_GetLedSpeed(**BSTR**, **DWORD**, **DWORD***)

This function retrieves the specific LED current speed level.

int MLAPI_SetLedColor(**BSTR**, **DWORD**, **DWORD**, **DWORD**, **DWORD**)

This function sets the LED to a specific color.

int MLAPI_SetLedColorsSync(**BSTR**, **DWORD**, **DWORD**, **DWORD**)

This function sets the colors for each individual LED within LED area by its name.

int MLAPI_SetLedColors(**BSTR**, **DWORD**, **SAFEARRAY****, **DWORD***, **DWORD***, **DWORD***)

This function sets the colors for each individual LED within LED area by its name.

int MLAPI_SetLedColorEx(**BSTR**, **DWORD**, **BSTR**, **DWORD**, **DWORD**, **DWORD**, **DWORD**)

This function sets the colors for each individual LED within LED area by its name.

int MLAPI_SetLedColorSync(**BSTR**, **DWORD**, **BSTR**, **DWORD**, **DWORD**, **DWORD**, **DWORD**)

This function sets the colors for each individual LED within LED area by its name.

int MLAPI_SetLedStyle(**BSTR**, **DWORD**, **BSTR**)

This function sets the LED to a specific style.

int MLAPI_SetLedBright(**BSTR**, **DWORD**, **DWORD**)

This function sets the LED brightness to a specific level.

int MLAPI_SetLedSpeed(**BSTR**, **DWORD**, **DWORD**)

This function sets the LED blink speed to a specific level.

int MLAPI_MysticLightControlNotify(**CallbackFunc ***)

This function register Mystic Light controlling notification.

Function Documentation

int MLAPI_Initialize()	
Description: This function initializes the APIs. This must be called before calling other MLAPI_ functions.	
Return values:	
MLAPI_OK	Initialized.
MLAPI_NO_IMPLEMENTED	MSI application not found or current version is not supported.
MLAPI_INITIAL_TIMEOUT	MLAPI_Initialize timeout.
int MLAPI_Release()	
Description: This function release the APIs.	
Return values:	
MLAPI_OK	Initialized.
MLAPI_ERROR	Generic error.
int MLAPI_GetDeviceInfo(SAFEARRAY** pDevType, SAFEARRAY** pLedCount)	
Description: This function retrieves information of all devices.	
Parameters:	
[out] pDevType	Pointer to a safe array containing defined type of all devices.
[out] pLedCount	Pointer to a safe array containing the number of LEDs for all devices.
Return values:	
MLAPI_OK	Initialized.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
MLAPI_INITIAL_TIMEOUT	MLAPI_Initialize timeout.
int MLAPI_GetDeviceName(BSTR type, SAFEARRAY** pDevName)	
Description: This function retrieves the friendly name of specific device.	
Parameters:	
[in] type	The defined of device type.
[out] pDevName	Pointer to a safe array containing the friendly name of specific device.
Return values:	
MLAPI_OK	Initialized.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
MLAPI_INITIAL_TIMEOUT	MLAPI_Initialize timeout.
int MLAPI_GetDeviceNameEx(BSTR type, DWORD index, BSTR* pDevName)	
Description: This function retrieves the friendly name of specific device.	
Parameters:	
[in] type	The defined of device type.
[in] index	The defined of device id.
[out] pDevName	The friendly name of specific device.
Return values:	
MLAPI_OK	Initialized.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
MLAPI_INITIAL_TIMEOUT	MLAPI_Initialize timeout.

int MLAPI_GetLedInfo (BSTR type, DWORD index, BSTR* pName, SAFEARRAY** pLedStyles)										
Description: This function retrieves the information of the specified LED.										
Parameters: <table border="0"> <tr> <td>[in] type</td> <td>The defined of device type.</td> </tr> <tr> <td>[in] index</td> <td>The LED identifier of the device.</td> </tr> <tr> <td>[out] pName</td> <td>The LED display name of the specified LED.</td> </tr> <tr> <td>[out] pLedStyles</td> <td>The support styles of the specified LED.</td> </tr> </table>	[in] type	The defined of device type.	[in] index	The LED identifier of the device.	[out] pName	The LED display name of the specified LED.	[out] pLedStyles	The support styles of the specified LED.		
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int MLAPI_GetLedName (BSTR type, SAFEARRAY** pDevName)										
Description: This function retrieves the all LED name within LED area of specific device.										
Parameters: <table border="0"> <tr> <td>[in] type</td> <td>The defined of device type.</td> </tr> <tr> <td>[out] pDevName</td> <td>Pointer to a safe array containing the all LED name within LED area of specific device.</td> </tr> </table>	[in] type	The defined of device type.	[out] pDevName	Pointer to a safe array containing the all LED name within LED area of specific device.						
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MLAPI_INITIAL_TIMEOUT	MLAPI_Initialize timeout.									
int MLAPI_GetLedColor (BSTR type, DWORD index, DWORD* R, DWORD* G, DWORD* B)										
Description: This function retrieves the color of the specified LED.										
Parameters: <table border="0"> <tr> <td>[in] type</td> <td>The defined of device type.</td> </tr> <tr> <td>[in] index</td> <td>The LED identifier of the device.</td> </tr> <tr> <td>[out] R</td> <td>Pointer to DWORD variable containing the red code of the RGB color.</td> </tr> <tr> <td>[out] G</td> <td>Pointer to DWORD variable containing the green code of the RGB color.</td> </tr> <tr> <td>[out] B</td> <td>Pointer to DWORD variable containing the blue code of the RGB color.</td> </tr> </table>	[in] type	The defined of device type.	[in] index	The LED identifier of the device.	[out] R	Pointer to DWORD variable containing the red code of the RGB color.	[out] G	Pointer to DWORD variable containing the green code of the RGB color.	[out] B	Pointer to DWORD variable containing the blue code of the RGB color.
[in] type	The defined of device type.									
[in] index	The LED identifier of the device.									
[out] R	Pointer to DWORD variable containing the red code of the RGB color.									
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MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.									
MLAPI_INITIAL_TIMEOUT	MLAPI_Initialize timeout.									
int MLAPI_GetLedStyle (BSTR type, DWORD index, BSTR* style)										
Description: This function retrieves the style of the specified LED.										
Parameters: <table border="0"> <tr> <td>[in] type</td> <td>The defined of device type.</td> </tr> <tr> <td>[in] index</td> <td>The LED identifier of the device.</td> </tr> <tr> <td>[out] style</td> <td>Pointer to a BSTR variable containing the style of the specified LED.</td> </tr> </table>	[in] type	The defined of device type.	[in] index	The LED identifier of the device.	[out] style	Pointer to a BSTR variable containing the style of the specified LED.				
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[in] index	The LED identifier of the device.									
[out] style	Pointer to a BSTR variable containing the style of the specified LED.									
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MLAPI_OK	Initialized.									
MLAPI_DEVICE_NOT_FOUND	The device is not found.									
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.									
MLAPI_INITIAL_TIMEOUT	MLAPI_Initialize timeout.									

int MLAPI_GetLedMaxBright(BSTR type, DWORD index, DWORD* maxLevel)	
Description: This function retrieves the maximum brightness level of the specified LED.	
Parameters:	
[in] type	The defined of device type.
[in] index	The LED identifier of the device.
[out] style	Pointer to a DWORD variable containing the maximum brightness level of the specified LED.
Return values:	
MLAPI_OK	Initialized.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
int MLAPI_GetLedBright(BSTR type, DWORD index, DWORD* currentLevel)	
Description: This function retrieves the brightness level of the specified LED.	
Parameters:	
[in] type	The defined of device type.
[in] index	The LED identifier of the device.
[out] style	Pointer to a DWORD variable containing the brightness level of the specified LED.
Return values:	
MLAPI_OK	Initialized.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
int MLAPI_GetLedMaxSpeed(BSTR type, DWORD index, DWORD* maxLevel)	
Description: This function retrieves the maximum speed level of the specified LED.	
Parameters:	
[in] type	The defined of device type.
[in] index	The LED identifier of the device.
[out] style	Pointer to a DWORD variable containing the maximum speed level of the specified LED.
Return values:	
MLAPI_OK	Initialized.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
int MLAPI_GetLedSpeed(BSTR type, DWORD index, DWORD* currentLevel)	
Description: This function retrieves the speed level of the specified LED.	
Parameters:	
[in] type	The defined of device type.
[in] index	The LED identifier of the device.
[out] style	Pointer to a DWORD variable containing the speed level of the specified LED.
Return values:	
MLAPI_OK	Initialized.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.

int MLAPI_SetLedColor(BSTR type, DWORD index, DWORD R, DWORD G, DWORD B)	
Description: This function sets the color of the specified LED.	
Parameters:	
[in] type	The defined of device type.
[in] index	The LED identifier of the device.
[in] R	Pointer to DWORD variable containing the red code of the RGB color.
[in] G	Pointer to DWORD variable containing the green code of the RGB color.
[in] B	Pointer to DWORD variable containing the blue code of the RGB color.
Return values:	
MLAPI_OK	Initialized.
MLAPI_INVALID_ARGUMENT	The parameter value is not valid.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
int MLAPI_SetLedColorsSync(BSTR type, DWORD R, DWORD G, DWORD B)	
Description: This function sets the colors for each individual LED within LED area by its name.	
Parameters:	
[in] type	The defined of device type.
[in] R	Pointer to DWORD variable containing the red code of the RGB color.
[in] G	Pointer to DWORD variable containing the green code of the RGB color.
[in] B	Pointer to DWORD variable containing the blue code of the RGB color.
Return values:	
MLAPI_OK	Initialized.
MLAPI_INVALID_ARGUMENT	The parameter value is not valid.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.
int MLAPI_SetLedColors(BSTR type, DWORD index, SAFEARRAY** pLedName, DWORD* R, DWORD* G, DWORD* B)	
Description: This function sets colors for each individual LED within LED area by its name.	
Remark: This must be called after calling MLAPI_SetLedStyle function if support "Direct Lighting Control" style.	
Parameters:	
[in] type	The defined of device type.
[in] index	The LED identifier of the area index.
[in] pLedName	Pointer to safe array variable containing the LED name of specific area.
[in] R	Pointer to DWORD variable containing the red code of the RGB color.
[in] G	Pointer to DWORD variable containing the green code of the RGB color.
[in] B	Pointer to DWORD variable containing the blue code of the RGB color.
Return values:	
MLAPI_OK	Initialized.
MLAPI_INVALID_ARGUMENT	The parameter value is not valid.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.

int MLAPI_SetLedColorEx (BSTR type, DWORD index, BSTR pLedName, DWORD R, DWORD G, DWORD B, DWORD Sync)														
Description: This function sets colors for specified LED within LED area by its name.														
Remark: This must be called after calling MLAPI_SetLedStyle function if support "Direct Lighting Control" style.														
Parameters: <table> <tr> <td>[in] type</td> <td>The defined of device type.</td> </tr> <tr> <td>[in] index</td> <td>The LED identifier of the area index.</td> </tr> <tr> <td>[in] pLedName</td> <td>The LED name of specific area.</td> </tr> <tr> <td>[in] R</td> <td>The red code of the RGB color.</td> </tr> <tr> <td>[in] G</td> <td>The green code of the RGB color.</td> </tr> <tr> <td>[in] B</td> <td>The blue code of the RGB color.</td> </tr> <tr> <td>[in] Sync</td> <td>Sync LED color of specific area immediately.</td> </tr> </table>	[in] type	The defined of device type.	[in] index	The LED identifier of the area index.	[in] pLedName	The LED name of specific area.	[in] R	The red code of the RGB color.	[in] G	The green code of the RGB color.	[in] B	The blue code of the RGB color.	[in] Sync	Sync LED color of specific area immediately.
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[in] R	The red code of the RGB color.													
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[in] Sync	Sync LED color of specific area immediately.													
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MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.													
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.													
int MLAPI_SetLedColorSync (BSTR type, DWORD index, BSTR pLedName, DWORD R, DWORD G, DWORD B, DWORD Sync)														
Description: This function sets colors for specified LED within LED area by its name.														
Remark: This must be called after calling MLAPI_SetLedStyle function if support "Direct All Sync" style.														
Parameters: <table> <tr> <td>[in] type</td> <td>The defined of device type.</td> </tr> <tr> <td>[in] index</td> <td>The LED identifier of the area index.</td> </tr> <tr> <td>[in] pLedName</td> <td>The LED name of specific area.</td> </tr> <tr> <td>[in] R</td> <td>The red code of the RGB color.</td> </tr> <tr> <td>[in] G</td> <td>The green code of the RGB color.</td> </tr> <tr> <td>[in] B</td> <td>The blue code of the RGB color.</td> </tr> <tr> <td>[in] Sync</td> <td>Sync LED color of specific area immediately.</td> </tr> </table>	[in] type	The defined of device type.	[in] index	The LED identifier of the area index.	[in] pLedName	The LED name of specific area.	[in] R	The red code of the RGB color.	[in] G	The green code of the RGB color.	[in] B	The blue code of the RGB color.	[in] Sync	Sync LED color of specific area immediately.
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MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.													
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.													
int MLAPI_SetLedStyle (BSTR type, DWORD index, BSTR style)														
Description: This function sets the style of the specified LED.														
Parameters: <table> <tr> <td>[in] type</td> <td>The defined of device type.</td> </tr> <tr> <td>[in] index</td> <td>The LED identifier of the device.</td> </tr> <tr> <td>[in] style</td> <td>The style of the specified LED.</td> </tr> </table>	[in] type	The defined of device type.	[in] index	The LED identifier of the device.	[in] style	The style of the specified LED.								
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MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.													
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.													

int MLAPI_SetLedBright(BSTR type, DWORD index, DWORD level)**Description:** This function sets the brightness level of the specified LED.**Parameters:**

[in]	type	The defined of device type.
[in]	index	The LED identifier of the device.
[in]	style	brightness level of the specified LED.

Return values:

MLAPI_OK	Initialized.
MLAPI_INVALID_ARGUMENT	The parameter value is not valid.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.

int MLAPI_SetLedSpeed(BSTR type, DWORD index, DWORD level)**Description:** This function sets the speed level of the specified LED.**Parameters:**

[in]	type	The defined of device type.
[in]	index	The LED identifier of the device.
[in]	style	speed level of the specified LED.

Return values:

MLAPI_OK	Initialized.
MLAPI_INVALID_ARGUMENT	The parameter value is not valid.
MLAPI_DEVICE_NOT_FOUND	The device is not found.
MLAPI_NOT_SUPPORTED	Requested feature is not supported in the selected LED.
MLAPI_NOT_INITIALIZED	MLAPI_Initialize has not been called successful.

int MLAPI_GetErrorMessage(int ErrorCode, BSTR* pDesc)**Description:** This function converts a MLAPI error code into general string.**Parameters:**

[in]	ErrorCode	The APIs return status values.
[out]	pDesc	Pointer to a BSTR variable containing the Description of the error code.

Return values:

MLAPI_OK	Always, string never null.
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int MLAPI_MysticLightControlNotify(CallbackFunc* FuncPointer)**Description:** This function register Mystic Light controlling notification.**Parameters:**

[in]	FuncPointer	The callback function address.
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Return values:

MLAPI_OK	Initialized.
MLAPI_NO_IMPLEMENTED	MSI application not found or current version is not supported.

MLAPI Status Values

MLAPI_OK = 0
Description: Request is completed.
MLAPI_ERROR = -1
Description: Generic error.
MLAPI_TIMEOUT = -2
Description: Request is timeout.
MLAPI_NO_IMPLEMENTED = -3
Description: MSI application not found or installed version not supported.
MLAPI_NOT_INITIALIZED = -4
Description: MLAPI_Initialize has not been called successful.
MLAPI_INVALID_ARGUMENT = -101
Description: The parameter value is not valid.
MLAPI_DEVICE_NOT_FOUND = -102
Description: The device is not found.
MLAPI_NOT_SUPPORTED = -103
Description: Requested feature is not supported in the selected LED.