Nova Mars Series of LED Display Control Systems SDK User Manual

NovaStar Tech Co., Ltd

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1 Overview

1.1Contents of the SDK

The SDK is for Nova Mars series of LED display control systems. And the SDK contains the files listed in the following table.

No.	File Name	Description
1	Nova.Mars.SDK.MarsInterface.dl	The dynamic link library (DLL) file based on which
	1	users can customize their applications.
2	NovaEncode64.dll	Copy the DLL files to the path of the .exe file when
3	NovaEncode.dll	use the SDK for customized apps developing.
4	The other .dll librarys	Underlying DLL files. Copy the files to the folder in which Nova.Mars.SDK.MarsInterface.dll is in when use. No references are required.
5	Server	This folder contains the files for the series port communication service with the Mars control systems. Copy the folder to the path of the .exe file when use the SDK for customized apps developing.
6	CommonData	This folder contains the Mars control systems chips lists files. Copy the folder to the path of the .exe file when use the SDK for customized apps developing.
7	Sample	A C# sample for interfaces communication test.

1.2Development Environment Requirements

The SDK is provided in the form of DLL files. Visual Studio 2005 and late are recommended as the development environment. It is better if developers have the experience in C# programming as only C# samples are available at present.

1.3Important notes for SDK usage

No.	Notes
1	

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1	The Server folder must be copied to the path of the exe file when use the SDK.	
2	The CommonData folder must be copied to the path of the exe file when use the SDK.	
3	The SDK can only be used for 32-bit application developing.	
4	The NovaEncode64.dll and NovaEncode.dll must be copied to the path of the exe file	
	when use the SDK.	
5	The SDK does not support redundant transmit cards (controllers) RJ45 Ethernet ports.	

2 DLL Interfaces

2.1MarsHardwareEnumerator

This class is used to get the IDs of the devices (LED display control systems and multifunction cards) in the overall system. The IDs are the only way to get access to the devices. Functions provided by this class are as follow.

- Initialize the object (of this class) itself.
- Release the object resources.
- > Get the count of the LED display control systems connected to the computer.
- > Get the count of the multifunction cards connected to the computer through serial ports.
- ➤ Get the corresponding serial port name according to the index of the control system which is connected to the computer through the serial port.
- Get the corresponding serial port name according to the index of the multifunction card which is connected to the computer through the serial port.

2.1.1 Initialize

Description

Initialize the object (of this class) itself.

Remark

Only when the initialization operation is performed successfully will the other functions be

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workable.

2.1.2 UnInitialize

Description

Release the resources of the object (of this class).

Remark

After the operation of uninitializatize is performed successfully, all other functions will return False when called.

2.1.3 CtrlSystemCount

Description

Get the count of the LED display control systems connected to the computer.

Remark

The return value will be 0 if the object of this class has not initialized itself or has uninitialized itself.

2.1.4 FuncCardInCommCount

Description

Get the count of the multifunction cards connected to the computer through serial ports.

Remark

The return value will be 0 if the object of this class has not initialized itself or has uninitialized itself.

2.1.5 GetComNameOfControlSystem

Description

Get the corresponding serial port name (ID) of a certain LED display control system according to the control system index.

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Parameters

No.	Туре	Para Name	Description	Value Range
1	int	index	Control system index	From 0 to (CS_Count-1)
				where CS_Count is the count
				of the control systems.
2	string	comName	The retrieved serial port name	
			(ID)	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.1.6 Get Com Name Of Function Card

Description

Get the corresponding serial port name (ID) of a certain multifunction card according to the multifunction card index.

Parameter

No.	Type	Para Name	Description	Value Range
1	int	index	Multifunction card index	From 0 to
				(MC_Count-1) where
				MC_Count is the count
				of the multifunction
				cards.
2	string	comName	The retrieved serial port name	
			(ID)	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.2MarsFunctionCardInCOM

This class is used to manage the multifunction cards which are connected to the system through

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serial ports. Functions provided by this class are as follow.

- > Set or get the power supply control mode of a multifunction card.
- Set or get the power supplies status of a multifunction card.
- > Set or get the schedules in a multifunction card for automatic power supplies control
- > Get the measurement results of the light sensors connected to a multifunction card.

2.2.1 SetPowerControlMode

Description

Set the power supply control mode of a multifunction card.

Remark

If the mode is set to be Auto, a schedule will be needed by the multiunction card for automatic power supply control. Use the <u>SetPowerSwitchAutoTime</u> method to set the schedule for a multifunction card of which the schedule has not been set.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	funcCardInde	Multifunction card	From 0 to (MC_Count-1)
		x	index	where MC_Count is the
				number of multifunction
				cards connected with the
				system through serial ports.
2	Nova.Mars.S	ctrlMode	Power supply control	3.1.6 PowerControlMode
	DK.PowerCo		mode	
	ntrolMode			

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.2.2 SetPowerSwitchStatus

Description

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Set the status (on/off) of a certain power supply output on a multifunction card.

Parameters

No.	Туре	Para Name	Description	Value Range
	int	funcCardIndex	Multifunction	From 0 to (MC_Count -1) where
1			card	MC_Count is the number of
			index	multifunction cards connected
				with the system through serial
				ports.
2	int	switchIndex	Power supply	0~7
			index	
3	Nova.Mars.	switchStatus	Power supply	Refer to
	SDK.		status	3.1.7 PowerSwitchStatus for more
	PowerSwitc			details.
	hStatus			

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.2.3 SetPowerAllSwitchStatus

Description

Set the status (on/off) of all power supply outputs on a multifunction card.

Remark

The schedule for automatic power supply control will be disabled when all power supplies are turned off. The schedule won't be activated untill all power supplies are turned on by calling this method again.

Parameters

No.	Type	Para Name	Description	Value Range
1	int	funcCardIndex	Multifunction card	From 0 to (MC_Count -1)
			index	where MC_Count is the
				number of multifunction cards

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				connected with the system
				through serial ports.
2	Nova.Mars.	switchStatus	Power supply status	Refer to
	SDK.			3.1.7 PowerSwitchStatus for
	PowerSwitc			more details.
	hStatus			

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.2.4 SetPowerSwitchAutoTime

Description

Set the schedule for automatic control of the power supply outputs on a multifunction card.

Remark

The schedule is workable only when the power supply control mode is set as Auto.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	funcCardIndex	Multifunction card index	From 0 to (MC_Count -1) where MC_Count is the number of multifunction cards connected with the system through serial ports.
2	DateTime[]	startTime	The time to turn on all 8 power supply outputs.	The array length is 8.
3	DateTime[]	StopTime	The time to turn off all 8 power supply outputs.	The array length is 8.

Return Value

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Туре	Description	
bool	True Operation succeeded	False Operation failed

2.2.5 GetPowerControlMode

Description

Get the power supply control mode of a multifunction card.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	funcCardIndex	Multifunction	From 0 to (MC_Count -1)
			card	where MC_Count is the
			index	number of multifunction cards
				connected with the system
				through serial ports.
2	Nova.Mars.SD	ctrlMode	The retrieved	Refer to
	K.Power		power supply	3.1.6Power Control Mode
	Contro lMode		control mode.	for more details.

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.2.6 GetPowerSwitchStatus

Description

Get the status of a certain power supply output on a multifunction card.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	funcCardIndex	Multifunction card	From 0 to (MC_Count -1)
			index	where MC_Count is the
				number of multifunction
				cards connected with the
				system through serial ports.
2	int	switchIndex	Power supply index	0~7

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3	Nova.Mars.	switchStatus	The retrieved power	Refer to
	SDK.Power		supply status.	3.1.7PowerSwitchStatus
	SwitchStatu			for more details.
	s			

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.2.7 GetPowerSwitchAutoTime

Description

Get the schedule for automatic power supplies control from the multifunction card. As there are 8 power supply outputs on a multifunction card, the lengths of the startTime array and the stopTime array are both 8.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	funcCardIndex	Multifunction card	From 0 to (MC_Count -1)
			index	where MC_Count is the
				number of multifunction
				cards connected with the
				system through serial ports.
2	DateTime[]	startTime	The retrieved start	The array length is 8.
			time of the power	
			supplies.	
3	DateTime[]	StopTime	The retrieved stop	The array length is 8.
			time of the power	
			supplies.	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

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2.2.8 GetValueOfLightSensorInFunction

Description

Get the measurement result of a certain light sensor connected to a multifunction card. Note that a multifunction card has 6 interfaces for connecting external devices, but the external devices can only be light sensors at present.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	funcCardIndex	Multifunction card	From 0 to (MC_Count -1) where
			index	MC_Count is the number of
				multifunction cards connected with
				the system through serial ports.
2	int	devIndex	External device	0~5
			index	
3	int	lux	The retrieved	
			measurement result	
			of a light sensor.	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3MarsControlSystem

This class is used for LED display control system cluster management. Functions provided by this class are as follow.

- Initial the devices connected with a certain serial port.
- Release the resources of an object of this class.
- ➤ Get the reverver cards (scan-boards) information of a certain LED display.
- > Set the location of the display area of a LED display.
- Set or get the brightness of a LED display.
- Set or get the current gain of a LED display.

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- Set or get the Gamma value of a LED display.
- > Set the image display type of a LED display.
- Save the settings of transmitter cards (controllers) and receiver cards.
- Refresh the monitored statuses on the receiver cards and the monitor board.
- ➤ Get the monitored statuses from receiver cards or monitor boards.
- Check the pixels statuses of a certain receiver card on a certain LED display and report the check result.
- Set or get the power supply control mode of a multifunction card connected to a certain transmitter card.
- > Set or get the power supply outputs status of a multifunction card connected to a certain transmitter card or controller through an Ethernet port.
- Set or get the automatic power supply control schedule on a multifunction card connected to a certain transmitter card or controller through an Ethernet port.
- ➤ Get the measurement result of a light sensor connected to a multifunction card which is connected to a certain transmitter card or controller through an Ethernet port.
- > Get the measurement result of a light sensor directly conneced to a certain transmitter card.

Note

Redundent Ethernet ports are not supported by all operations related to LED display control system control.

2.3.1 Initialize

Description

Initialize an object of this class with a specified serial port and get the numbers of LED displays and transmitter cards (or controllers) that are connected to the computer through this serial port.

Parameters

No.	Type	Para Name	Description	Value Range
-----	------	-----------	-------------	-------------

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1	string	comNameOfCt rlSystem	The serial port name through which the control system is connected to the computer.	
2	int	screenCount	Number of the LED displays that are connected to the computer through the specified serial port.	
3	int	senderCount	Number of the transmitter cards or controllers that are connected to the computer through the specified serial port.	

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.2 UnInitialize

Description

Release the resources of an object of this class.

Remark

All member functions will return False after an object of this class is uninitialized.

2.3.3 GetScreenLocation

Description

Get the size and offsets of a specified LED display. By LED display here means the activated area (area used to show images) of a physical LED display.

Parameters

No.	Type	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen) index	From 0 to (S_Count-1)
				where S_Count is the
				number of LED displays
				connected to the

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				computer through the
				current serial ports.
2	int	X	The retrieved X (Column)	
			offset of the LED display	
3	int	у	The retrieved Y (Row) offset	
			of the LED display	
5	int	width	The retrieved width of the	
			LED display	
6	int	height	The retrieved height of the	
			LED display	

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.4 SetScreenLocation

Description

Set the offsets (in row and column) of the specified LED display

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen) index	From 0 to (S_Count-1)
				where S_Count is the
				number of LED displays
				connected to the computer
				through the current serial
				ports.
2	int	X	X (Column) offset of the LED	0~32767
			display	
3	int	у	Y (Row) offset of the LED	0~32767
			display	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

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2.3.5 SetLEDScreenInfo

Description: Set up screen information.

Parameters

No.	Туре	Para Name	Description	Value Range
1	UInt16	dviWidth	DVI's Width	0~65535
2	UInt16	dviHeight	DVI's Height	0~65535
3	List <ledscreeninfo></ledscreeninfo>	screenInfoList	Screen	Maximum LED
			information list	display quantity:
				200, display info
				please refer to
				<u>LEDScreenInfo</u>

Return Value:

Туре	Description			
	When the receiver card list in a certain screen is empty, then return to ScreenHasNoSB ;			
	When the set-up width and height of DVI are less than or equivalent to zero, then return			
h1	to DVIInfoError;			
bool	When failure in initialization or no initialization, then return to NotInit ;			
	When other failures occur, return to CommunicateFailed ;			
	When setting up succeeds, return to OK			

Remark:

- 1. The width and height of DVI means DVI input of each controller;
- 2. Each LED display needs one DVI input;

2.3.6 ClearLEDScreenInfo

Description: Clear screen information.

Return Value

Туре	Description					
1 1	As a result of clearing screen information, when failure in initialization or no					
bool	initialization, then return to NotInit ;					

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When failure in clearing, return to CommunicateFailed;
When clearing succeeds

2.3.7 ReadLEDScreenInfo

Description: Read screen information.

Parameters

No.	Туре	Para Name	Description	Value Range
1	List <ledscreeninfo></ledscreeninfo>	screenInfoList	Screen information	
			list	

Return Value:

Туре	Description			
	As a result of reading screen information, when failure in initialization or no			
	initialization, then return to NotInit;			
When failure in reading screen information, return to CommunicateFailed;				
bool	When the type of equipment in connection with the serial port is not control system,			
	return to CommunicateFailed;			
	When success in reading back screen information, return to OK, with screenInforList			
	as the screen information read			

2.3.8 GetScanBoardCount

Description

Get the receiver cards count of specified LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display	From 0 to (S_Count-1) where S_Count is
			(Screen) index	the number of LED displays connected to
				the computer through the current serial
				ports.

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2	int	scanBdCount	The retrieved	
			receiver cards	
			count	

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.9 GetScanBoardOfScreen

Description

Get the mapping information of a specified receiver card in a certain LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen)	From 0 to (S_Count-1) where
			index	S_Count is the number of
				LED displays connected to
				the computer through the
				current serial ports.
2	int	index	Receiver card index	From 0 to (RC_Count-1)
				where RC_Count is the
				number of recerver cards in
				the LED display.
3	Nova.Mars.	scanBd	The retrieved mapping	Refer to <u>3.1.1</u>
	SDK.ScanB		information of the	<u>ScanBoardMapRegion</u> for
	oardMapRe		receiver card.	more details.
	gion			

Return Value

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.10 ControlDisplay

Description

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Set the image display type of a LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display	From 0 to (S_Count-1) where
			(Screen) index	S_Count is the number of LED
				displays connected to the
				computer through the current
				serial ports.
2	Nova.Mars.	controlType	Image display	Refer to
	SDK.Displa		type	3.1.5 <u>DisplayControlType</u> for
	yControlTy			more details.
	pe			

Return Value

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.11 SetBrightness

Description

Set the overall brightness of the LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen)	From 0 to (S_Count-1) where
			index	S_Count is the number of LED
				displays connected to the
				computer through the current
				serial ports.
2	byte	bright	brightness	0~255

Return Value

Туре	Description	
------	-------------	--

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bool True Operation succeeded	False Operation failed
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2.3.12 SetRedBrightness

Description

Set the red channel brightness of the LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen)	From 0 to (S_Count-1) where
			index	S_Count is the number of LED
				displays connected to the
				computer through the current
				serial ports.
2	byte	red	Brightness of the red	0~255
			channel.	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.13 SetBlueBrightness

Description

Set the blue channel brightness of the LED display.

Parameters

No.	Туре	Para Name	Description	Value Range	
1	int	screenIndex	LED display	From 0 to (S_Count-1) where S_Count is	
			(Screen) index	the number of LED displays connected to	
				the computer through the current serial	
				ports.	
2	byte	blue	Brightness of the	0~255	
			blue channel		

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Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.14 SetGreenBrightness

Description

Set the green channel brightness of the LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen) index	From 0 to (S_Count-1) where
				S_Count is the number of
				LED displays connected to
				the computer through the
				current serial ports.
2	byte	green	Brightness of the green	0~255
			channel.	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.15 GetBrightness

Description

Get the brightness information of the LED display, including the overall brightness and the brightness of the red, blue and green channels.

Parameters

No.	Type	Para Name	Description			Value Range
1	int	screenIndex	LED 0	display	(Screen)	From 0 to (S_Count-1) where
			index			S_Count is the number of
						LED displays connected to

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				the computer through the
				current serial ports.
2	byte	bright	The retrieved overall	0~255
			brightness	
3	byte	red	The retrieved red channel	0~255
			brightness	
4	byte	blue	The retrieved blue channel	0~255
			brightness	
5	byte	green	The retrieved green	0~255
			channel brightness	

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.16 **SetGain**

Description

Set the current gain of the LED display.

Parameters

No.	Type	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen) index	From 0 to (S_Count-1)
				where S_Count is the
				number of LED displays
				connected to the computer
				through the current serial
				ports.
2	byte	redGain	Gain of the red channel	0~255
3	byte	blueGain	Gain of the blue channel	0~255
4	byte	greenGain	Gain of the green channel	0~255

Return Value

Type	Description		
bool	True Operation succeeded	False Operation failed	

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2.3.17 **GetGain**

Description

Get the current gain of the LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen) index	From 0 to (S_Count-1)
				where S_Count is the
				number of LED displays
				connected to the
				computer through the
				current serial ports.
2	byte	redGain	The retrieved gain of the red	0~255
			channel	
3	byte	blueGain	The retrieved gain of the blue	0~255
			channel	
4	byte	greenGain	The retrieved gain of the green	0~255
			channel	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.18 SetGamma

Description

Set the Gamma value of the LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display	From 0 to (S_Count-1) where S_Count is
			(Screen) index	the number of LED displays connected to
				the computer through the current serial
				ports.
2	float	gamma	Gamma value	1.0~4.0

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Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.19 GetGamma

Description

Get the Gamma value of the LED display.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen)	From 0 to (S_Count-1) where
			index	S_Count is the number of
				LED displays connected to
				the computer through the
				current serial ports.
2	float	gamma	The retrieved Gamma	
			value	

Return Value

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.20 BeginRefreshHardwareStatus

Description

Begin the operation of updating the hardware statuses.

Remark

Refreshing operation result (succeeded or failed) will be reported by the event of RefreshHardwareStatusFinishEvent.

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2.3.21 IsScanBoardWorkOK

Description

Get the working status of a specified receiver card (scan-board).

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved receiver card status be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display (Screen)	From 0 to (S_Count-1)
			index	where S_Count is the
				number of LED displays
				connected to the computer
				through the current serial
				ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1)
				where RC_Count is the
				Receiver cards number in
				the LED display.
3	Nova.Mars.	status	The retrieved receiver	Refer to 3.1.2 StatusType
	SDK.Status		card working status.	for more details.
	Type			

Return Value

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.22 **GetScanBoardTemperature**

Description

Get the temperature monitored by a specified receiver card (scan-board).

Remark

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Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved temperature be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display	From 0 to (S_Count-1) where
			(Screen) index	S_Count is the number of LED
				displays connected to the
				computer through the current
				serial ports.
2	int	scanBdIndex	Receiver card	From 0 to (RC_Count-1) where
			index	RC_Count is the receiver cards
				number in the LED display.
3	Nova.Mars.S	value	The retrieved	Refer to 3.1.8 ValueInfo for more
	DK.ValueInfo		temperature.	details.

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.23 GetScanBoardVoltage

Description

Get the power supply voltage of a specified receiver card (scan-board).

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved voltage be real.

Parameters

No.	Type	Para Name	Description	Value Range
1	int	screenIndex	LED display	From 0 to (S_Count-1) where
			(Screen) index	S_Count is the number of LED
				displays connected to the computer
				through the current serial ports.

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2	int	scanBdIndex	Receiver card	From 0 to (RC_Count-1) where
			index	RC_Count is the receiver cards
				number in the LED display.
3	Nova.Mar	value	The retrieved	Refer to 3.1.8 ValueInfo for more
	s.SDK.Val		voltage	details.
	ueInfo			

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.24 IsConnectWithMonitorBoard

Description

Check whether there is a monitor board connected to the specified receiver card.

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved result be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1) where
				S_Count is the number of LED
				displays connected to the computer
				through the current serial ports.
2	int	scanBdIndex	Receiver card	From 0 to (RC_Count-1) where
			index	RC_Count is the receiver cards
				number in the LED display.
3	bool	isConnectMB	The received flag	
			indicating whether	
			the receiver card is	
			connected with a	
			monitor board.	

Return Value

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Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.25 GetMonitorBoardHumidity

Description

Get the humidity monitored by a specified monitor board.

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved humidity be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1) where
				S_Count is the number of
				LED displays connected to
				the computer through the
				current serial ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1)
				where RC_Count is the
				receiver cards number in the
				LED display.
3	Nova.Mars.SD	value	The retrieved	Refer to 3.1.8 ValueInfo for
	K.ValueInfo		humidity measured	more details.
			by the monitor	
			board.	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.26 GetMonitorBoardSmoke

Description

Get the smoke information monitored by a specified monitor board.

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Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved smoke information be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1) where
				S_Count is the number of LED
				displays connected to the
				computer through the current
				serial ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1) where
				RC_Count is the receiver cards
				number in the LED display.
3	Nova.Mar	alarmInfo	The retrieved smoke	Refer to 3.1.9 AlarmInfo for
	s.SDK.Ala		alarm repoeted by the	more details.
	rmInfo		monitor board.	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.27 GetMonitorBoardFan

Description

Get the fan speeds monitored by a monitor board.

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved fan speeds be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1) where
				S_Count is the number of LED

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				displays connected to the
				computer through the current
				serial ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1) where
				RC_Count is the receiver cards
				number in the LED display.
3	Nova.Mars.S	value	The retrieved fan	Refer to 3.1.8 ValueInfo for
	DK.ValueInfo		speeds measured by	more details.
			the monitor board.	

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.28 GetMonitorBoardPower

Description

Get the power supply voltages monitored by a monitor board.

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved voltages be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1) where
				S_Count is the number of
				LED displays connected to
				the computer through the
				current serial ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1)
				where RC_Count is the
				receiver cards number in the
				LED display.
3	Nova.Mars.	value	The retrieved voltages	Refer to 3.1.8 ValueInfo for
	SDK.ValueI		measured by the	more details.

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nfo[]	monitor board. Note	
	that the first one voltage	
	in this array is the	
	power supply for the	
	monitor board.	

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.29 GetCabinetDoorStatus

Description

Get the status (close or open) of the door of a cabinet monitored by a certain monitor board.

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved door status be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1)
				where S_Count is the
				number of LED displays
				connected to the computer
				through the current serial
				ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1)
				where RC_Count is the
				receiver cards number in the
				LED display.
3	Nova.Mars.S	status	The retrieved	Refer to
	DK.CabinetD		cabinet door status.	3.1.4CabinetDoorStatusType
	oorStatusTyp			for more details.
	e			

Return Value

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Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.30 IsCabinetFPCOK

Description

Check whether the flexible printed circuit (FPC) in a cabinet is working normally.

Remark

Only after the operation of **BeginRefreshHardwareStatus** has been performed successfully will the retrieved FPC working status be real.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1) where
				S_Count is the number of
				LED displays connected to
				the computer through the
				current serial ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1)
				where RC_Count is the
				receiver cards number in the
				LED display.
3	Nova.Mar	type	The retrieved status of	Refer to 3.1.2 StatusType for
	s.SDK.Sta		the FPC.	more details.
	tusType			

Return Value

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.31 BeginPointDetect

Description

Begin point detecting, also known as LED lights status (working normally, short circuit or open

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circuit) checking of the modules in the specified cabinet of a certain LED display.

Remark

This is for LED lights status checking of the modules which do not require the current gains to be fixed for LED lights status checking.

The LED lights status checking operation result will be reported by the event of **GetCabinetPixelEvent**.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1)
				where S_Count is the
				number of LED displays
				connected to the computer
				through the current serial
				ports.
2	int	scanBdIndex	Receiver card index	From 0 to (RC_Count-1)
				where RC_Count is the
				receiver cards number in
				the LED display.
3	int	threshold	The threshold for LED	The threshold may be
			lights status checking	different for different driver
				chips. Refer to 4.1
				Threshold and Type of LED
				Light Status checking for
				more details.
4	Nova.Mars.	type	LED lights status	The type of LED light
	SDK.Point		checking type (open	status checking may
	DetectType		circuit or short circuit)	different for different driver
				chips. Refer to 4.1
				Threshold and Type of LED
				Light Status checking and
				3.1.3 PointDetectType for
				more details.

Return Value

Туре	Description
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bool	True Operation succeeded	False Operation failed	

BeginPointDetect(int, int, int, Nova.Mars.SDK.PointDetectType, byte, byte, byte);

Description

Begin LED lights status (working normally, short circuit or open circuit) checking of the modules in the specified cabinet of a certain LED display.

Remark

This is for LED lights status checking of the modules which require the current gains to be fixed for LED lights status checking.

The LED lights status checking operation result will be reported by the event of **GetCabinetPixelEvent**.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	LED display index	From 0 to (S_Count-1) where
				S_Count is the number of LED
				displays connected to the
				computer through the current
				serial ports.
2	int	scanBdIndex	Receiver card	From 0 to (RC_Count-1) where
			index	RC_Count is the receiver cards
				number in the LED display.
3	int	threshold	The threshold for	The threshold may be different
			LED lights status	for different driver chips. Refer
			checking	to 4.1 Threshold and Type of
				LED Light Status checking for
				more details.
4	Nova.Mars.S	type	LED lights status	The type of LED light status
	DK.PointDete		checking type	checking may different for
	ctType		(open circuit or	different driver chips. Refer to
			short circuit)	4.1 Threshold and Type of LED

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				Light Status checking and 3.1.3
				PointDetectType for more
				details.
5	byte	redGain	Current gain of the	0~255
			red channel	
6	byte	greenGain	Current gain of the	0~255
			green channel	
7	byte	blueGain	Current gain of the	0~255
			blue channel	

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.32 SetPowerControlMode

Description

Set the power supply control mode of the multifunction card connected to a certain transmitter card (or controller) through an Ethernet port.

Parameters

No.	Type	Para Name	Description	Value Range
1	int	senderIndex	Transmitter	From 0 to (TC_Count-1) where
			card (or	TC_Count is the number of the
			controller)	transmitter cards or controllers
			index	connected to the computer through
				the current serial port.
2	int	portIndex	Ethernet port	For transmitter cards (MSD300): 0
			index	or 1
				For controllers (MCTRL500): 0, 1,
				2 or 3
3	int	funcCardIndex	Multifunction	
			card index	
4	Nova.Mars.	ctrlMode	Power supply	Refer to 3.1.6 PowerControlMode
	SDK.Power		control mode	for more details.
	ControlMod			

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ρ		

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.33 SetPowerSwitchStatus

Description

Set the status of a certain power supply on the specified multifunction card connected to a certain transmitter card or controller.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	senderIndex	Transmitter card or	From 0 to (TC_Count-1)
			controller index	where TC_Count is the
				number of the transmitter
				cards or controllers connected
				to the computer through the
				current serial port.
2	int	portIndex	Ethernet port index	For transmitter cards
				(MSD300): 0 or 1
				For controllers
				(MCTRL500): 0, 1, 2 or 3
3	int	funcCardIndex	Multifunction card	
			index	
4	int	switchIndex	Power supply index	0~7
5	Nova.Mars.	switchStatus	Power supply status	Refer to
	SDK.Power			3.1.7 PowerSwitchStatus
	SwitchStatu			for more details.
	S			

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

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2.3.34 SetPowerAllSwitchStatus

Description

Set the status of all 8 power supplies on a specified multifunction card connected to a certain transmitter card or controller through an Ethernet port.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	senderIndex	Transmitter card or	From 0 to (TC_Count-1)
			controller index	where TC_Count is the
				number of the
				transmitter cards or
				controllers connected to
				the computer through
				the current serial port.
2	int	portIndex	Ethernet port index	For transmitter cards
				(MSD300): 0 or 1
				For controllers
				(MCTRL500): 0, 1, 2 or
				3
3	int	funcCardIndex	Multifunction card index	
4	Nova.Mar	switchStatus	Power supply status	Refer to
	s.SDK.Po			3.1.7PowerSwitchStatus
	werSwitch			for more details.
	Status			

Return Value

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.35 SetPowerSwitchAutoTime

Description

Set the schedule for automatic control of all 8 power supplies on a certain multifunction card connected to a specified transmitter card or controller.

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Parameters

No.	Туре	Para Name	Description	Value Range
1	int	senderIndex	Transmitter card or	From 0 to
			controller index	(TC_Count-1) where
				TC_Count is the
				number of the
				transmitter cards or
				controllers connected
				to the computer
				through the current
				serial port.
2	int	portIndex	Ethernet port index	For transmitter cards
				(MSD300): 0 or 1
				For controllers
				(MCTRL500): 0, 1, 2
				or 3
3	int	funcCardIndex	Multifunction card index	
4	DateTime[]	startTime	Time to turn on the	Array length 8
			powers.	
5	DateTime[]	StopTime	Time to turn off the	Array length 8
			powers.	

Return Value

Туре	Description		
bool	True Operation succeeded	False Operation failed	

2.3.36 GetPowerSwitchAutoTime

Description

Get the schedule for automatic control of all 8 power supplies on a certain multifunction card connected to a specified transmitter card or controller.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	senderIndex	Transmitter	From 0 to (TC_Count-1) where

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			card or	TC_Count is the number of the
			controller index	transmitter cards or controllers
				connected to the computer
				through the current serial port.
2	int	portIndex	Ethernet port	For transmitter cards
			index	(MSD300): 0 or 1
				For controllers (MCTRL500):
				0, 1, 2 or 3
3	int	funcCardIndex	Multifunction	
			card index	
4	DateTime[]	startTime	The retrieved	Array length 8
			time to turn on	
			the powers	
5	DateTime[]	StopTime	The retrieved	Array length 8
			time to turn off	
			the powers	

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.37 GetPowerControlMode

Description

Get the power supply control mode of a certain multifunction card connected to a specified transmitter card or controller through an Ethernet port.

Parameter

No.	Туре	Para Name	Description	Value Range
1	int	senderIndex	Transmitter card or	From 0 to (TC_Count-1) where
			controller index	TC_Count is the number of the
				transmitter cards or controllers
				connected to the computer
				through the current serial port.
2	int	portIndex	Ethernet port index	For transmitter cards

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				(MSD300): 0 or 1
				For controllers (MCTRL500):
				0, 1, 2 or 3
3	int	funcCardIndex	Multifunction card	
			index	
4	Nova.Mars.	ctrlMode	The retrieved	Refer to <u>3.1.6</u>
	SDK.Power		power supply	PowerControlMode for more
	ControlMod		control mode	details.
	e			

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.38 GetPowerSwitchStatus

Description

Get the status of a certain power supply on a specified multifunction card connected to a certain transmitter card or controller through an Ethernet port.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	senderIndex	Transmitter card or	From 0 to (TC_Count-1)
			controller index	where TC_Count is the
				number of the transmitter
				cards or controllers
				connected to the computer
				through the current serial
				port.
2	int	portIndex	Ethernet port index	For transmitter cards
				(MSD300): 0 or 1
				For controllers
				(MCTRL500): 0, 1, 2 or 3
3	int	funcCardIndex	Multifunction card	
			index	
4	int	switchIndex	Power supply index	0~7

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5	Nova.Mars.	switchStatus	The retrieved	power	Refer	to	3.1.7
	SDK.Power		supply status		PowerSw	ritchStatus	for
	SwitchStatu				more deta	ails.	
	S						

Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.39 GetValueOfLightSensorInSender

Description

Get the measurement result of the light sensor connected to a specified transmitter card.

Remark

Light sensors can be connected to transmitter cards, but not to controllers.

Parameters

No.	Type	Para Name	Description	Value Range
1	int	senderIndex	Transmitter card	From 0 to (TC_Count-1) where
			index	TC_Count is the number of the
				transmitter cards connected to the
				computer through the current
				serial port.
2	int	lux	The retrieved	
			measurement value	
			of the light sensor.	

Return Value

Туре	Description	
bool	True Operation succeeded	False Operation failed

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2.3.40 GetValueOfLightSensorInFunction

Description

Get the measurement value of a light sensor connected to a certain multifunction card which is connected with a transmitter card or controller through an Ethernet port.

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	senderIndex	Transmitter card or	From 0 to (TC_Count-1) where
			controller index	TC_Count is the number of the
				transmitter cards or controllers
				connected to the computer through
				the current serial port.
2	int	portIndex	Ethernet port index	For transmitter cards (MSD300): 0
				or 1
				For controllers (MCTRL500): 0, 1,
				2 or 3
3	int	funcCardIndex	Multifunction card	
			index	
4	int	lux	The retrieved	
			measurement value	
			of the light sensor.	

Return Value

Type	Description	
bool	True Operation succeeded	False Operation failed

2.3.41 SaveParameters

Description

Save the settings of transmitter cards and receiver cards.

Remark

The saving operation will tae about 11 seconds. Do not perform any other operation on the hardware during this time.

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Туре	Description	
bool	True Operation succeeded	False Operation failed

2.3.42 RefreshHardwareStatusFinishEvent

Description

The event that indicates the finish of the operation of hardware status refreshing (updating the monitored statuses).

2.3.43 GetCabinetPixelEvent

Description

The event that indicates the finish of LED lights status checking.

2.3.44 SetHotBackUp

Description

Set hot backup information

Parameters

No.	Type	Para Name	Description	Value Range
1	List <senderredund< td=""><td>reduInfoList</td><td>Hot backup information list</td><td></td></senderredund<>	reduInfoList	Hot backup information list	
	ancyInfo>			
2	CompleteHotBackU	callBack	Set delegation for the	
	pWriteConfig		completion result of the hot	
			backup information (callback	
			function)	

2.3.45 SaveHotBackUpToHw

Description

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Save hot backup information

Parameters

No.	Туре	Para Name	Description	Value Range
1	List <senderre< td=""><td>reduInfoList</td><td>Hot backup information list</td><td></td></senderre<>	reduInfoList	Hot backup information list	
	dundancyInfo>			
2	CompleteHotB	callBack	Save delegation for the	
	ackUpWriteCo		completion result of the hot	
	nfig		backup information (callback	
			function)	

2.3.46 GetHotBackUp

Description

Get hot backup information

Parameters

No.	Туре	Para Name	Description	Value Range
1	CompleteHot	callBack	Get delegation for the	
	BackUpRead		completion result of the hot	
	Config		backup information (callback	
			function)	

2.3.47 DeleteHotBackUp

Description

Delete the hot backup information

Parameters

No.	Туре	Para Name	Description		Value Range
1	List <senderredund< td=""><td>deletedReduInfo</td><td>Hot</td><td>backup</td><td></td></senderredund<>	deletedReduInfo	Hot	backup	

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	ancyInfo>	List	information list to be
			deleted
2	CompleteHotBackU	callBack	Delete delegation for
	pWriteConfig		the completion result
			of the hot backup
			information (callback
			function)

2.3.48 GetControlSysInfo

Description

Get type, serial number, internet access number of control system

Parameters

No.	Туре	Para Name	Description	Value Range
1	CompleteControlS	callBack	Get delegation for completion	
	ysInfoConfig		result of type, serial number,	
			internet access number of	
			control system (callback	
			function)	

2.3.49 ReadScannerParameters

Description

Get parameters of refresh rate, grey scale and brightness effective rate of receiving card

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	screenIndex	Screen index	Index number starts from 0
2	int	senderIndex	Serial number of	Serial number starts from 0

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			sending card	
3	int	portIndex	Serial number of	Serial number starts from 0
			internet access of	
			sending card	
4	int	scanBdIndex	Serial number of	Serial number starts from 0
			receiving card	
5	CompleteCon	callBack	Get delegation for	
	trolSysInfoCo		completion result of	
	nfig		type, serial number,	
			internet access number	
			of control system	
			(callback function)	

2.3.50 SetMarsDisplayResolutionRate

Description

Sets the resolution and refresh rate of a sending card.

Parameters

No.	Туре	Para Name	Description	Value Range
1	SenderDisplayInf	senderDisplayInfo	Set the resolution and	
	О		refresh rate of a sending	
			card.	

2.3.51 GetMarsDisplayResolutionRateInfo

Description

Obtain the resolution and refresh rate of the specified sending card.

Parameters

No.	Туре	Para Name	Description	Value Range	
1101	-3 PC	I ulu i tullio	2 cscription	varae range	l

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1	Byte	senderCardAddr	Serial number of a	≥ 0
			sending card.	

2.3.52 SendScanConfigFileToHW

Description

send the config file information of receiving card to hardware

Parameters

No.	Туре	Para Name	Description	Value Range
1	string	scanConfigFileName	receiving card config	
			file path	
2	int	screenIndex	Screen index	Index number
				starts from 0
3	CompleteSend	callback	Get delegation for the	
	ConfigFileToH		completion result	
	W		(callback function),	
			parameter type :	
			SendConfigFileToHWSta	
			te	

$2.3.53\,\textbf{SendSysConfigFileToHW}$

Description

Send system config file information to hardward

Parameters

No.	Туре	Para Name	Description	Value Range
1	string	sysConfigFileName	system config file path	

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2	CompleteSend	callback	Get delegation for the	
	ConfigFileToH		completion result	
	W		(callback function),	
			parameter type :	
			SendConfigFileToHWSta	
			te	

$2.3.54\,\textbf{SendScreenConfigFileToHW}$

Description

Send screen config file information to hardward

Parameters

No.	Туре	Para Name	Description	Value Range
1	string	screenConfigFileName	Screen config file path	
2	Size	dviResolution	Resolution of the sending	
			card(fill resolution of the	
			present sending card, in	
			order to ensure the size of	
			screen contained in	
			config file doesn't exceed	
			the limits of present	
			sending card.)	

Return value

No.	Туре	Para Name	Description
1	OperateResult	result	the result of sending screen config file information
			to hardware

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2.3.55 SaveParameters

Description

Save the settings of transmitter cards and receiver cards(including hot backup information)

Remark

The saving operation will tae about 11 seconds. Do not perform any other operation on the hardware during this time.

Parameters

No.	Туре	Para Name	Description	Value Range
1	SaveParamsCall	callback	Get delegation for the	
	Back		saving result (callback	
			function), parameter	
			type :	
			SaveParamsResData	

2.3.56 SetScanBigTableData

Description

Send and receive card large table data (default profile box)

Remark

After the success of the transmission is not cured, need to manually operate the curing

Parameters

No.	Туре	Para Name	Description	Value Range
1	byte	senderIndex	Serial number of sending card	Serial number starts from 0
2	byte	portIndex	Serial number of internet	Serial number starts from 0
			access of sending card	
3	ushort	scanBdIndex	Serial number of receiving	Serial number starts from 0
			card	
4	Byte[]	data	Data	
5	ComPleteSetSca	callBack	Get delegation for the sending	

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nBi	gTableData	res	ult	(callb	ack	function),		
		par	ramet	er	type	:		
		Re	adSca	annerS	tate			

2.3.57 SetEquipmentIP

Description

Setting Sender IP

Parameters

No.	Туре	Para Name	Description	Value Range
1	byte	senderIndex	Serial number of sending card	Serial number starts from 0
2	Byte[]	data	IP Data	

2.3.58 **GetEquipmentIP**

Description

Get Sender IP

Parameters

No.	Туре	Para Name	Description	Value Range
1	byte	senderIndex	Serial number of sending card	Serial number starts from 0

3 Data Structures and Delegates

3.1Data Structure

${\bf 3.1.1\,ScanBoardMapRegion}$

Description

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Structure for the Mapping region info.

Parameters

No.	Type	Para Name	Description	Value Range
1	byte	SenderIndex	Transmitter card or controller	0~255
			index	
2	byte	PortIndex	Ethernet port index	0~255
3	UInt16	ConnectIndex	Receiver card index	0~65535
4	UInt16	X	X (column) offset of the receiver	0~32767
			card	
5	UInt16	Y	Y (row) offset of the receiver	0~32767
			card	
6	UInt16	Width	Width of the pixel array driven	0~65535
			by the receiver card.	
7	UInt16	Height	Height of the pixel array driven	0~65535
			by the receiver card.	

3.1.2 Status Type

Description

Enum of the working status.

Parameters

No.	Para Name	Value	Description
1	OK	0	The object working status is good.
2	Error	1	The object is not working normally.
3	Unknown	2	The object working status is unknown.

3.1.3 PointDetectType

Description

Enum of the Point detecting (LED lights status checking) type.

Parameters

No.	Para Name	Value	Description
-----	-----------	-------	-------------

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1	OpenCircuit	0	Checking for open circuit.
2	ShortCircuit	1	Checking for short circuit.

3.1.4 Cabinet Door Status Type

Description

Enum of cabinet door status.

Parameters

No.	Para Name	Value	Description
1	Close	0	The cabinet door is closed
2	Open	1	The cabinet door is open.
3	Unknown	2	The cabinet door status is unknown.

3.1.5 DisplayControlType

Description

Enum of image display type.

Parameters

No.	Para Name	Value	Description
1	Normal	0	Show the images normally.
2	Lock	1	Lock (keep on showing) the current image.
3	Kill	2	Show black on the LED display.

3.1.6 PowerControlMode

Description

Enum of the power supply control mode.

Parameters

No.	Para Name	Value	Description
-----	-----------	-------	-------------

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1	Manual	0	Manual control. That is to turn on/off the power supplies by	
			sending instructions through application software manually.	
2	Auto	1	Automatic control. The power supplies are turned on/off by the	
			system automatically according to the schedule which is set	
			through application software.	

3.1.7 PowerSwitchStatus

Description

Enum of the power supply status.

Parameters

No.	Para Name	Value	Description
1	On	0	The power supply is on.
2	Off	1	The power supply is off.

3.1.8 ValueInfo

Description

Information of a certain value.

Parameters

No.	Туре	Para Name	Description	Value Range
1	bool	IsValid	Flag indicating whether the value is valid.	
2	float	Value	The value. Only valid when IsValid is	
			True.	

3.1.9 AlarmInfo

Description

Warning information.

Parameters

No.	Type	Para Name	Description	Value Range
1	bool	IsValid	Flag indicating whether the warning is	

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			valid.	
2	bool	IsAlarm	Flag indicating whether there is a	
			warning. Only valid when IsAlarm is	
			True.	

3.1.10 ModulePixelInfo

Description

The LED light status checking result of a module.

Parameters

No.	Туре	Para Name	Description	Value Range
1	bool	IsHasErrorLight	Flag indicating whether there	
			are error lights.	
2	List <point></point>	RedErrorList	List of the positions of the	
			error red LED lights in the	
			pixel array of the module.	
3	List <point></point>	GreenErrorList	List of the positions of the	
			error green LED lights in the	
			pixel array of the module.	
4	List <point></point>	BlueErrorList	List of the positions of the	
			error blue LED lights in the	
			pixel array of the module.	
5	List <point></point>	VRedErrorList	List of the positions of the	
			error virtual red LED lights	
			in the pixel array of the	
			module.	

3.1.11 CabinetErrorPixelInfo

Description

The LED lights status checking result of a cabinet.

Parameters

No.	Type	Para Name	Description	Value Range
-----	------	-----------	-------------	-------------

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1	int	ModuleCols	Column number of the module	
			array in the cabinet.	
2	int	ModuleRows	Row number of the module array	
			in the cabinet.	
3	List <mod< td=""><td>ModuleList</td><td>The list of the LED light status</td><td>Refer to</td></mod<>	ModuleList	The list of the LED light status	Refer to
	ulePixelIn		checking result of each module	3.1.10ModulePixelInfo
	fo>		in the cabinet.	for more details about
				ModulePixelInfo.

3.1.12 LEDScreenInfo

Description

Screen information o

Parameters

No.	Type	Para Name	Description	Value Range
1	UInt16	ScreenX	Horizontal location	0~65535
			of the screen	
2	UInt16	ScreenY	Vertical location of	0~65535
			the screen	
3	ScreenVirtualMode	VirtualMode	Virtual mode of the	Enable, Disable
			screen	
4	List <scanboardmapre< td=""><td>ScanBoardInfoLi</td><td>Information list of</td><td></td></scanboardmapre<>	ScanBoardInfoLi	Information list of	
	gion>	st	receiver card in the	
			screen	

3.1.13 ScreenVirtualMode

Description

Virtual mode of the screen.

Parameters

No.	Para Name	Value	Description
-----	-----------	-------	-------------

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1	Disable	0	Real pixel
2	Led4Mode1	1	Four LED Virtual Mode 1
3	Led4Mode2	2	Four LED Virtual Mode 1
4	Led3Mode	3	Three LED Virtual Mode

3.1.14 OperateResult

Description

Operation results.

Parameters

No.	Para Name	Value	Description
1	OK	0	OK
2	NotInit	1	Not initialized
3	SBAddrDuplication	2	SB address duplication
4	CommunicateFailed	3	Communicate failed
5	ScreenHasNoSB	4	Screen has no SB
6	DVIInfoError	5	DVI information error
7	ScreenLocationError	6	Screen location error
8	SBLocationError	7	SB location error
9	LoadScreenConfigFileE	8	Screen file loading errors
	rror		
10	ConfigFileNameIsNone	9	config file is empty
11	Sending	10	sending
12	NoScanBdInfo	11	Information for at least one receiving card is
			needed
13	SenderError	12	The sending card is not connected or not
			working normally.
14	OutOfAange	13	Mapped areas of the sending card is out of
			the present screen arrange

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3.1.15 HotBackUpState

Description

Operate enumeration status of hot backup

Parameters

No.	Para Name	Value	
1	NoHotBackUpInfo	No hot backup information	
2	Successful	Success	
3	Sending	Sending hot backup information	
4	Loading	Loading hot backup information	
5	Saving	Saving hot backup information	
6	Error	Failed	
7	InitalError	Initialization failed	
8	NoSelectedHotBackUpInfo	No data to be deleted	
9	DeleteSuccessful	Delete successfully	
10	MasterEqualToSlave	Mater equipment equals to slave equipment	
11	IsExist	The same hot backup information exists	
12	MasterIsExistSlave	Master sending card to be set already exists in slave sending card	
13	SlaveIsExistMaster	Slave sending card to be set already exists in master sending card	
14	MasterCommunicateError	Hardware of master sending card to be set is not connected	
15	SlaveCommunicateError	Hardware of slave sending card to be set is not connected	

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16	MasterIsExist	Master sending card to be set already exists	
17	SlaveIsExist	Slave sending card to be set already exists	
18	MasterPortCommunicateErr	Hardware of master internet access number to be set is	
	or	not connected	
19	SlavePortCommunicateError	Hardware of slave internet access number to be set is	
		not connected	

3.1.16 GetControlSysState

Description

Get enumeration status of type, serial number and internet access number of control system

Parameters

No.	Para Name	Value
1	NoControlSysInfo	No control system information
2	2 Successful Success	
3	Sending	Loading control system information
4	InitalError	Initialization failed
5	GetSNError	Get serial number failed
6	Error	Failed

3.1.17 ReadScannerState

Description

Get enumeration status of receiving card parameter

Parameters

No.	Para Name	Value
1	Successful	Success
2	Reading	Loading receiving card parameter

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3	AllotypeBoxIsNotSupport	Allotype box is not supported
4	NoScannerParameter	No receiving card information
5	NoScreenInfo	No screen information
6	ScreenIndexError	Screen index error
7	InitalError	Initialization failed
8	Error	Failed

3.1.18 ControlSysInfo

Description

Type, serial number, internet access number and other information of control system

Parameters

No.	Туре	Para Name	Description	Value Range
1	NSCardType	CardType	Type of control system	
2	string	CardSN	Serial number of	
			control system	
3	int	PortNum	Internet access number of control system	

3.1.19 ScannerParameter

Description

Refresh rate, grey scale, refresh ratio, brightness and other information of receiving card

Parameters

No.	Туре	Para Name	Description	Value Range
1	int	Refresh	Refresh rate	
2	byte	GrayDepth	Grey scale	
3	int	SubFields	Refresh ratio	
4	float	BrightEcyValue	Brightness	

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3.1.20 SenderRedundancyInfo

Description: Hot backup information

Parameters

No.	Туре	Para Name	Description	Value Range
1	byte	MasterSenderIndex	Serial number of master sending card	The serial number starts from 0
2	byte	MasterPortIndex	Serial number of master internet access	
3	byte	SlaveSenderIndex	Serial number of slave sending card	The serial number starts from 0
4	byte	SlavePortIndex	Serial number of slave internet access	The serial number starts from 0

3.1.21 SenderDisplayInfo

Description

Indicate the information about the resolution and refresh rate.

Parameters

No.	Туре	Para Name	Description	Value Range
1	byte	SenderAddr	Serial number of a sending card. 255 (0xFF) indicates the broadcast address.	≥ 0
2	int	Height	Height	
3	int	Width	Width	
4	int	Refresh	Refresh rate	
5	bool	IsCustomPix	Custom pixel	True or False

3.1.22 SendConfigFileToHWState

Description

Enumeration status of sending config file information to hardware

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Parameters

NO	Para Name	value	Description
1	Successful	0	Success
2	LoadError	1	loading failed
3	SendError	2	sending failed
4	InitalError	3	Initialization failed
5	Loading	4	sending
6	ScreenIndexError	5	Screen index error
7	ConfigFileNameIsNone,	6	config file is empty
8	DVIInfoError	7	DVI information error
9	NoScanBdInfo	8	Information for at least one receiving card is needed
10	OutOfAange	9	Mapped areas of the sending card is out of the present screen arrange
11	SenderError	10	Sending card is not connected or not working normally

3.1.23 SaveParamsErrorType

Description

Enumeration status of saving parameters

Parameters

NO	Para Name	value	Description
1	OK	0	Success
2	UnInit	1	Initialization failed
3	SaveScreenInfoErr	2	Saving screen information failed
4	SaveSenderParamsErr	3	Saving sending card parameters failed
5	SaveScannerParamsErr	4	Saving receiving card parameters failed
6	SaveReduInfoErr	5	Saving hot backup information failed

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3.2Delegates and Parameters

3.2.1 NotifyUnInitializeEvent

Description: Notice the uninitialized.

3.2.2 CabinetPixelInfoEventArgs

Description

The class for containing the LED lights status checking results.

Parameters

No.	Туре	Para Name	Description	Value Range
1	bool	IsDetectedSucc	Flag indicating whether the LED	
		essful	lights status checking has been	
			finished successfully.	
2	int	screenIndex	The index of the LED display on	
			which the LED lights status	
			checking is performed.	
3	int	scanBdIndex	The index of the cabinet on which	
			the LED lights status checking is	
			performed.	
4	CabinetEr	PixelInfo	Result the LED lights status	Refer to $3.1.11$
	rorPixelIn		checking.	CabinetErrorPixelInf
	fo			o for more details.

3.2.3 RefreshResultEventArgs

Description

The class for containing the result of monitored statuses refreshing.

Parameters

No.	Туре	Para Name	Descr	Description			Value Range
1	bool	bFinishSucceed	Flag	indicating	whether	the	

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			monitored statuses refreshing operation has been finished successfully.	
2	string	CurCommPort	The port that has finished monitored statuses refreshing refreshing	

3.2.4 CabinetPixelInfoEventHandler

Description

Delegate of the finish of the LED lights status checking.

3.2.5 RefreshResultEventHandler

Description

Delegate of the finish of the monitored statuses updating.

3.2.6 CompleteHotBackUpWriteConfig

Description

Be able to get delegation for completion result when setting, saving and deleting the hot backup information

Parameters

No.	Туре	Para Name	Description	Value Range
1	HotBackUpState	Res	Set, save and delete status of	
			hot backup information	
2	SenderRedundan	Info	Prompt wrong hot backup	
	cyInfo		information when setting hot	
			backup information	

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3.2.7 CompleteHotBackUpReadConfig

Description

Be able to get delegation for completion result when getting hot backup information.

Parameters

No.	Туре	Para Name	Description	Value Range
1	HotBackUpState	Res	Get the status of the hot	
			backup	
			information	
2	List <senderredund< td=""><td>Info</td><td>Obtained hot backup</td><td></td></senderredund<>	Info	Obtained hot backup	
	ancyInfo		information list	

${\bf 3.2.8\,Complete Control Sys Info Config}$

Description

Be able to get delegation for the completion result when getting the type, serial number and internet access number of the control system

Parameters

No.	Туре	Para Name	Description	Value Range
1	GetControlSysState	Res	Get the status of type,	
			serial number and	
			internet access number	
			of the control system	
2	List <controlsysinfo></controlsysinfo>	Info	Obtained type, serial	
			number, internet access	
			number and other	
			information of the	
			control system	

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3.2.9 ComPleteReadScannerParametersConfig

Description

Be able to get delegation of completion result when getting the refresh rate, grey scale, refresh ratio and brightness of receiving card

Parameters

No.	Туре	Para Name	Description	Value Range
1	ReadScannerState	Res	Get the status of the	
			receiving card	
			parameter	
2	ScannerParameter	Info	Obtained parameter of	
			refresh rate, grey scale,	
			refresh ratio and brightness	
			of receiving card	

3.2.10 SetMarsDisplayEDIDDataEvent

Description

Set the resolution event of a sending card.

3.2.11 GetMarsDisplayPixDataEvent

Description

Obtain the resolution event of a sending card.

3.2.12 OperateResultEventHandler

Description

Set a commission for a resolution completion event of a sending card.

Parameters

No.	Туре	Para Name	Description	Value Range
1	Object	sender	Sender	
2	OperateResultEventArgs	args	Returned data	

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	narameters	
	parameters	

3.2.13 GetMarsDisplayInfoResultEventHandler

Description

Obtain a commission for a resolution completion event of a sending card.

Parameters

No.	Туре	Para Name	Description	Value Range
1	Object	sender	Sender	
2	GetMarsDisplayInfoResultEventAr	args	Returned data	
	gs		parameters	

3.2.14 OperateResultEventArgs

Note: set the parameter type of a resolution completion event of a sending card.

Parameters

No.	Туре	Para Name	Description	Value Range
1	bool	Result	Whether the setting is successful	
2	byte	SendCardAddr	Serial number of a sending card	≥ 0

3.2.15 CompleteSendConfigFileToHW

Description

Get delegation for the completion result when sending confile file information to hardware

Parameters

No	Туре	Para Name	Description	Value Range
1	SendConfigFileToHWState	res	the result of	
			sending config file	

3.2.16 SaveParamsCallBack

Description

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Get delegation for the completion result of saving parameters(including hot backup information)

Parameters

No	Type	Para Name	Description	Value Range
1	SaveParamsResData	resData	the result of saving	
			parameters	

3.2.17 ComPleteSetScanBigTableData

Description

Get delegation for the completion result of sending parameters

Parameters

No	Type	Para Name	Description Value Ra	nge
1	ComPleteSetScanBigTa	res	the result of sending	
	bleData		parameters	

3.2.18 SendEquipmentIPDataEvent

Description

Send data to complete the event triggered

Parameters

No	Type	Para Name	Description	Value Range
1	Byte[]	Data	Null	
2	bool	IsExecResult	Send Success Flag	

3.2.19 GetEquipmentIPDataEvent

Description

Access to IP notification event

Parameters

No	Type	Para Name	Description	Value Range
1	Byte[]	Data	IP Data	
2	bool	IsExecResult	Read Success Flag	

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4. Version Changes

Version	Time	change content	Description
V1.5.0	2016.2.29	new chips support	the new chip
			details:ICN2038\
			SM16027\SM161
			59\TLS3001\GW
			6205\SUM2017T
			\SUM2033\SUM
			2130\SUM2131\
			MY9231\GW620
			2B

5 appendix

Threshold and Type of LED Light Status Checking

The threshold and the type of LED light status checking is related to the driver chip types used on the module. See the following table for details.

Chip Type	Threshold	LED Light Status Checking Type	Remark
	Range	Supported	
MBI5036	1~4	Do not distinguish the LED light status	Supported by this SDK
		checking types	
MBI5034	None	Open circuit checking	Supported by this SDK
DM13H	1~2	Open/short circuit status checking	Supported by this SDK
MBI5042		Not support LED light status checking	
MBI5050		Not support LED light status checking	
P2510		Not support LED light status checking	
MBI5030	None	Open circuit status checking	Supported by this SDK

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SUM2017		Not support LED light status checking	
SUM2018		Not support LED light status checking	
SUM2030		Not support LED light status checking	
MBI5040	1~3	Open/short circuit status checking	Supported by this SDK

Note

 For those driver chips that do not distinguish the LED light status checking types, any type of LED light status checking is good for the status checking functions.
 Refer to 3.1.3 PointDetectType for more details about LED light status checking types.



- 2) The none of threshold range is: the threshold must be 1 for the status checking functions.
- 3) For those driver chips that the Threshold Range is None, any positive integer is good for the threshold when performing LED light status checking.

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