OPTEX FA CO., Ltd. OPPD provider

Version 1.0.0

User's guide

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Remarks:

This document is translated from Japanese into English by the machine translation.

[revision history]

Version	Date	Content
1. 0. 0	2017-04-25	First edition.
	2022-01-31	Corrected the errors of the usage example.
		WriteDeviceLock, ResetLightingSequence,ReadEmissionTimeUnit

[hardware]

Model	Version	Notes
OPPD 30E	-	

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1. Introduction

This book is an user's guide of the ORIN provider (OPTEX-FA OPPD provider) for LED Lighting controller (OPPD 30E) for Ethernet made of OPTEX FA CO,. Ltd.

This book explains the function of this OPTEX-FA OPPD provider and the mounting method.

2. Outline of provider

2.1. Outline

The OPTEX-FA OPPD provider acquires data by using the Telnet communication from the device. The file format of this provider is DLL(Dynamic Link Library), Table2.1 shows the details.

Table2. 10PTEX-FA OPPD provider

File name	CaoProvOPTEX-FAOPPD. dll	
ProgID	CaoProv. OPTEX-FA. OPPD	
Registry registration	regsvr32 CaoProvOPTEX-FAOPPD.dll	
Blotting out of registry	regsvr32 /u CaoProvOPTEX-FAOPPD.dll	
registration		

2. 2. Method property

2. 2. 1. CaoWorkspace::AddController method

"< option >"

When the Controller object is generated, a necessary option is specified.

The specification of AddController is shown as follows.

Format

)

```
AddController

(

"< controller name >", // Controller name (arbitrariness)

"CaoProv. OPTEX-FA. OPPD", // Provider name (fixation)

"< machine name >", // Provider execution machine name (unused)
```

The character string specified for an optional character string is shown as follows.

Table2.2Optional character string of CaoWorkspace::AddController

// Optional character string

Option	Indispensability	Explanation	Range of value	Default value
CONN=< optional connection >*1	✓	Parameter in communication tools is specified. About the specification method, please refer 2.2.1.1.		
Response standby time of TIMEOUT=< >	_	The response standby time is specified (ms). It becomes a default value when it is not specified or a specified value is outside the range.	0 - 65535	500

^{*1} Either ETH optional connection or TCP optional connection can be specified about optional CONN.

Usage example

CONN=ETH: 192. 168. 10. 1

2.2.1.1. Conn is optional.

Connected parameter character string of optional Conn is shown as follows. It is shown to omit it here in the brace) and the underlined part under the explanation of each parameter shows the default value when the option is not specified respectively.

The line shows the default value in case of Ethernet.

```
"Conn=ETH:<IP>[:<Port>[:<Local IP>:<Local Port>]]"

<IP>: Connection destination Internet Protocol address.

<Port> : Connection destination port. (61440)

<Local IP> : Local Internet Protocol address.

<Local Port> : Local port.
```

2. 2. 2. CaoController::AddVariable method

The CaoVariable object is generated from CaoController. To the variable identifierTable2.4It drinks and only the variable name can be used.

The specification of AddVariable is shown as follows.

Format

2.2.3. CaoController∷get_VariableNames method

Table 2.4 It drinks and the variable name list is acquired.

2. 2. 4. CaoController::Execute method

The data of the device can acquisition/be set by using the Execute method. Please refer to Capter 2.3 for details.

```
Format
```

2. 2. 5. CaoVariable::get_Value method

Data is acquired from the device according to the specified variable identifier. Please refer to Chapter Table2.4 for details.

2. 2. 6. CaoVariable::put_Value method

Data is set to the device according to the specified variable identifier.

Please refer to Chapter Table2.4 for details.

2.3. Execute command list

Show the command list that can be used in the controller class in Table2.3.

Table2.3 Execute command list

Command name	Explanation	Details
WriteOnOffForced	The lamp is lit or is compulsorily turned off. The	WriteOnOffForced
	setting etc. are disregarded.	
	The lamp that has selected the specified lighting	
Light	control input is lit according to the lighting value by	<u>Light</u>
	a present sequence number.	
WriteDeviceLock	It is written whether the device accepts the operation	WriteDeviceLock
III I LODGV I GCEGGK	with the switch.	WITTEGDGVTGGEGGK
ResetLightingSequence	An internal state of the lighting control sequence is	ResetLightingSequence
inesett i girt migsequence	reset.	<u>nesett i girt migsequence</u>
	A common setting to lamp 1 and lamp 2 is written. A common	
WriteCommonConfiguration	setting (lighting control sequence frequency at the PWM	WriteCommonConfiguration
WriteGoniillonGoni iguration	frequency and the time of the lighting control input	write-commonouninguration
	filter) to lamp 1 and lamp 2 is written.	
ReadCommonConfiguration	A common setting to lamp 1 and lamp 2 is read.	ReadCommonConfiguration
WriteLightingDelayTime	The lighting delay time of each lamp is written.	WriteLightingDelayTime
ReadLightingDelayTime	The lighting delay time of each lamp is read.	ReadLightingDelayTime
WriteEmissionTimeUnit	The unit of each lamp of the luminescence width is	WriteEmissionTimeUnit
WITTEELIITSSTOTTTIIIEOTTTE	written.	WITE CELIII 1881 OTTI TIII COTTI C
ReadEmissionTimeUnit	The unit of each lamp of the luminescence width is read.	<u>ReadEmissionTimeUnit</u>
WriteMonitorAlarmThreshold	The threshold of the monitor brightness alarm of each	 WriteMonitorAlarmThreshold
III I LEMOIT LOTATATIITIII ESTICTU	lamp is written.	III TEEMOTTEOLATATIITII ESTOTU
ReadMonitorAlarmThreshold	The threshold of the monitor brightness alarm of each	 ReadMonitorAlarmThreshold
Noadmont to Aranimin conord	lamp is read.	ICCACIMOTTI COTATATIIITIII CONOTA
WriteFeedbackSetting	The setting of the address feedback on each lamp is	WriteFeedbackSetting
in reor oodbaokootering	written.	m rear adductionering
ReadFeedbackSetting	The setting of the address feedback on each lamp is read.	<u>ReadFeedbackSetting</u>
WriteLightingValueSetting	The lighting value of each sequence is set	WriteLightingValueSetting
mi iteLigitingvaluesetting	([totonohikaatai] and width of the issue).	m recrigiting valuesetting
ReadLightingValueSetting	The setting of the lighting value of each sequence is	ReadLightingValueSetting
TOUGHT SHEETING VOLUMENTS	read.	NOUNE I SHELLING FOLLOWING

WriteLightingControlInput	The lighting control input of each sequence is set.	WriteLightingControlInput
ReadLightingControlInput	The setting of the lighting control input of each sequence is read.	ReadLightingControlInput
ReadCurrentData	The value (monitor value and brightness and absolute interior temperature) of each lamp is read now.	<u>ReadCurrentData</u>
ReadCorrectionDimmingValue	[Totonohikaatai] after it corrects it by simple feedback is read.	ReadCorrectionDimmingValue
GetTimeout	The set timeout period is acquired.	
SetTimeout	The timeout period is set.	

WriteOnOffForced

The command that compulsorily lights or turns off the lamp. The setting etc. are disregarded.

Item	ype explana	tion	Remarks
vntParam	T_ARRAY V	T_I2	When the writing preservation
	Turning o	off/point light of the lamp is specified.	flag is not specified, it is
	0: Turi	ning off	possible to specify it even by
	1: Ligi	nting	the VT_I2 type.
	Writing preservation flag		
	0: The	writing value is not preserved (default).	
	1: The	writing value is preserved.	
pVa I	None		

Usage example

CaoController. Execute ("WriteOnOffForced", Array (1, 0))

Light

It is a command to which the lamp that has selected the specified lighting control input is lit according to the lighting value by a present sequence number.

One sequence number of the lamp specified that this method is executed advances.

Please execute the WriteLightingControlInput command to change the lighting control input selection of the lamp and execute the WriteLightingValueSetting command when you change the lighting value of the lamp.

Ite	em	Type explanation

vntParam	VT_UI2	The lit lamp number is specified.
		1: Lamp 1
		2: Lamp 2
pVa I	None	

Usage example

CaoController. Execute ("Light", 1)

WriteDeviceLock

It is a command in which it is written whether the device accepts the operation with the switch.

Item	Тур	e explanation	Remarks
vntParam	VT_	ARRAY VT_I2	When the writing preservation
	0	Turning off/point light of the lamp is specified.	flag is not specified, it is
		0:	possible to specify it even by
		1: Lighting	the VT_I2 type.
	1	Writing preservation flag	
		0: The writing value is not preserved (default).	
		1: The writing value is preserved.	
pVal	None		

Usage example

CaoController.Execute("WriteDeviceLock", 1)

ResetLightingSequence

It is a command to reset an internal state of the lighting control sequence.

Item	Type explanation
vntParam	None
pVal	None

Usage example

CaoController. Execute ("ResetLightingSequence")

WriteCommonConfiguration

A common setting to lamp 1 and lamp 2 is written. It is a command in which a common setting (lighting control sequence frequency at the PWM frequency and the time of the lighting control input filter) to lamp 1 and lamp 2 is written.

Item	Туре	е ехр	lanatio	on	Remarks					
vntParam	VT_ARRAY VT_VARIANT									
	0	VT_AF	RRAY	VT_I2						
		0.0	VT_I2	The PWM frequency is specified.						
				0: 50 kHz						
				1: 100 kHz						
				2: 99 kHz						
				3: 98 kHz						
				4: 97 kHz						
		0.1	VT_I2	The time of the lighting control input filter						
				is specified.						
				0: 1μs						
				1: 6 μs						
				2: 25 μs						
				3: 100 μs						
		0. 2	VT_I2	The lighting control sequence frequency is						
				specified.						
				0: Once						
				1: Twice						
				2: Three times						
				3: Four times						
	1	VT_I	2	Writing preservation flag	The writing preservation flag					
				0: The writing value is not preserved	can be omitted.					
				(default).						
				1: The writing value is preserved.						
pVa I	None	- <u></u>								

Usage example

CaoController. Execute ("WriteCommonConfiguration", Array (0, 0, 3))

Read Common Configuration

It is a command that reads a common setting (lighting control sequence frequency at the PWM frequency and the time of the lighting control input filter) to lamp 1 and lamp 2.

Item	Тур	Type explanation								
vntParam	Non	None								
pVal	VT_	ARRAY	VT_VAR	ANT						
	0	VT_AR	RAY VT_	12						
		0. 0	VT_I2	The PWM frequency is specified.						
				0: 50 kHz						
				1: 100 kHz						
				2: 99 kHz						
				3: 98 kHz						
				4: 97 kHz						
		0. 1	VT_I2	The time of the lighting control input filter is specified.						
				0: 1μs						
				1: 6 μs						
				2: 25 μs						
				3: 100 μs						
		0. 2	VT_I2	The lighting control sequence frequency is specified.						
				0: Once						
				1: Twice						
				2: Three times						
				3: Four times						

Usage example

 ${\tt CaoController.\,Execute}\,("{\tt ReadCommonConfiguration"})$

WriteLightingDelayTime

It is a command in which the lighting delay time of each lamp is written. Please set the lamp number and the set value to be set and set the value.

Item	Тур	ре е	explar	nation		Remarks
vntParam	VT.	_ARF	RAY	VT_VARI	ANT	The range of i is 0 - It
	0	VT_	ARRAY	VT_VA	RIANT	is one.
		0. i	VT_AR	RAY VT	12	The part that exceeded
			0. i.0	VT_I2	A set lamp is specified.	the range is
					1: Lamp 1	disregarded.
					2: Lamp 2	
			0. i. 1	VT_I2	The lighting delay time is specified. The unit is	
					O. It becomes a unit specified with i.2.	
					0 ~ 999	
			0. i. 2	VT_I2	It specifies it every lighting delay time.	
					0: 10 μs	
					1: 1 ms	
	1	VT_	_I2		Writing preservation flag	The writing preservation
					0: The writing value is not preserved (default).	flag can be omitted.
					1: The writing value is preserved.	
pVal	Noi	пе				

Usage example

 $\label{lem:caccontroller} Cao Controller.\ Execute\ ("WriteLightingDelayTime",\ Array\ (Array\ (Array\ (1,0,0)\)\ Array\ (2,10,0)\)\)$

Read Lighting Delay Time

It is a command that reads the lighting delay time of each lamp. Please specify the lamp number to be read.

Item	Тур	е е	xplar	nation		Remarks
	۷Τ_	12		The read	lamp is specified.	
+ D				1: Lamp	1	
vntParam				2: Lamp	2	
				3: All	lamps	
pVa I	VT_	ARR	AY	VT_VARI	NT	The range of i is 0 - It
	0	VT_	ARRAY	VT_VA	RIANT	is one.
		0. i	VT_AR	RAY VI	_12	
		•	0. i. 0	VT_I2	Lamp (i+1) is acquired.	
					1: Lamp 1	
					2: Lamp 2	
			0. i. 1	VT_I2	The lighting delay time is acquired. The unit is	
					O. It becomes a unit acquired with i.2.	
					0 ~ 999	
			0. i. 2	VT_I2	It acquires it every lighting delay time.	
					0: 10 μs	
					1: 1 ms	

Usage example

CaoController.Execute("ReadLightingDelayTime", 3)

WriteEmissionTimeUnit

It is a command in which the unit of each lamp of the luminescence width is written. Please set the lamp number and the set value to be set and set the value.

Item	Ту	ре	explar	nation		Remarks
vntParam	VT.	_ARI	RAY	VT_VARIA	ANT	The range of i is 0 - It
	0	VT_	_ARRAY	′ VT_VA	RIANT	is one.
		0. i	VT_AF	RRAY VT	_12	The part that exceeded
			0. i.C	VT_I2	A set lamp is specified.	the range is
					1: Lamp 1	disregarded.
					2: Lamp 2	
			0. i. 1	VT_I2	The unit of the issue width is specified.	
					1: 10 μs	
					2: 1 ms	
	1	VT_	_I2		Writing preservation flag	The writing preservation
					0: The writing value is not preserved (default).	flag can be omitted.
					1: The writing value is preserved.	
pVal	No	ne				

Usage example

 ${\tt CaoController.Execute} \ ("{\tt WriteEmissionTimeUnit"}, \ {\tt Array} \ ({\tt Array} \ ({\tt Array} \ (1,1), {\tt Array} \ (2,1)), \ 0))$

ReadEmissionTimeUnit

It is a command that reads the unit of each lamp of the luminescence width. Please specify the lamp number to be read.

Item	Type expla	nation	Remarks	
	VT_I2	The read	lamp is specified.	
wat Dawam		1: Lamp	1	
vntParam		2: Lamp	2	
		3: All	lamps	
pVal	VT_ARRAY	VT_VARIA	NT	The range of i is 0 - It
	0 VT_ARRA	Y VT_VA	RIANT	is one.
	0. i VT_A	RRAY VT	_12	
	0. i.	0VT_I2	Lamp (i+1) is acquired.	
			1: Lamp 1	
			2: Lamp 2	
	0. i.	1VT_I2	The unit of the issue width is acquired.	
			1: 10 μs	
			2: 1 ms	

Usage example

 ${\tt CaoController.Execute} \ ({\tt "ReadEmissionTimeUnit"}, \ \ 3)$

WriteMonitorAlarmThreshold

It is a command in which the threshold of the monitor brightness alarm of each lamp is written. Please set the lamp number and the set value to be set and set the value.

Item	Ту	ре е	explar	nation		Remarks
vntParam	۷T	_ARI	RAY	VT_VARI	ANT	The range of i is 0 - It
	0	VT_	_ARRAY	' VT_VA	RIANT	is one.
		0. i	VT_AR	RAY VI	T_I2	The part that exceeded
			0. i.0	VT_I2	A set lamp is specified.	the range is
					1: Lamp 1	disregarded.
					2: Lamp 2	
			0. i. 1	VT_I2	Lower bound value (%) is specified.	
					Range of set value: 0 ~ 200	
			0. i. 2	VT_I2	Upper bound value (%) is specified.	
					Range of set value: 0 ~ 255	
	1	VT_	<u>I2</u>		Writing preservation flag	The writing preservation
					0: The writing value is not preserved (default).	flag can be omitted.
					1: The writing value is preserved.	
pVal	No	ne				

Usage example

 $\textbf{CaoController}. \ \textbf{Execute} \ (\text{``WriteMonitorAlarmThreshold''}, \textbf{Array} \ (\textbf{Array} \ (\textbf{Array} \ (\textbf{1}, 50, 100) \ , \textbf{Array} \ (\textbf{2}, 200, 255)) \ , \ \textbf{0}))$

ReadMonitorAlarmThreshold

It is a command that reads the threshold of the monitor brightness alarm of each lamp. Please specify the lamp number to be read.

Item	Тур	е е	xplaı	nation	Remarks			
	۷Τ_	12		The read	lamp is specified.			
vo+Do nom				1: Lam	o 1			
vntParam				2: Lam	0.2			
				3: All	lamps			
pVal	VT_	ARR	AY	VT_VARI	ANT	The range of i is 0 - It		
	0	VT_	ARRAY	/ VT_V	ARIANT	is one.		
		0. i	VT_AF	RRAY V	Т_12			
			0. i. (VT_I2	Lamp (i+1) is acquired.			
					1: Lamp 1			
					2: Lamp 2			
		•	0. i. 1	VT_I2	Lower bound value (%) is specified.			
					Range of set value: 0 ~ 200			
			0. i. 2	VT_I2	Upper bound value (%) is specified.			
					Range of set value: 0 ~ 255			

Usage example

 ${\tt CaoController.\,Execute}\,({\tt ''ReadMonitorAlarmThreshold''},\ \ 3)$

WriteFeedbackSetting

It is a command in which the setting of the address feedback on each lamp is written. Please set the lamp number and the set value to be set and set the value.

Item	Тур	ре е	explan	nation		Remarks
vntParam	۷Τ_	_ARF	RAY	VT_VARI	ANT	The range of i is 0 - It
	0	VT_	ARRAY	VT_V	ARIANT	is one.
		0. i	VT_AR	RAY V	Γ_12	The part that exceeded
			0. i.0	VT_I2	A set lamp is specified.	the range is
					1: Lamp 1	disregarded.
					2: Lamp 2	
			0. i. 1	VT_I2	The setting of the address feedback is specified.	
					0: 0FF	
					1: ON	
					2: cPb(6V 0FF)	
	1	VT_	I2		Writing preservation flag	The writing preservation
					0: The writing value is not preserved (default).	flag can be omitted.
					1: The writing value is preserved.	
pVal	Nor	пе				

Usage example

 ${\tt CaoController.\,Execute\,("WriteFeedbackSetting",\,Array\,(Array\,(Array\,(1,\,0)\,,\,Array\,(2,\,1)\,)\,,\,0))} \\$

ReadFeedbackSetting

It is a command that reads the setting of the address feedback on each lamp. Please specify the lamp number to be read.

Item	Тур	ре е	explar	nation		Remarks
	۷Τ_	_I2		The read	lamp is specified.	
vntParam				1: Lamp	1	
VIILFATAIII				2: Lamp	2	
				3: All	lamps	
pVal	۷Τ_	_ARF	RAY	VT_VARIA	NT	The range of i is 0 - It
	0	VT_	ARRAY	' VT_VA	RIANT	is one.
		0. i	VT_AF	RRAY VT	_12	
			0. i. 0	VT_I2	Lamp (i+1) is acquired.	
					1: Lamp 1	
					2: Lamp 2	
			0. i. 1	VT_I2	The setting of the address feedback is acquired.	
					0: OFF	
					1: ON	
					2: cPb(6V 0FF)	

Usage example

 ${\tt CaoController.Execute} \ ({\tt "ReadFeedbackSetting"}, \ \ 3)$

WriteLightingValueSetting

It is a command in which the setting of the lighting value of the lamp and each sequence is written. Please set the sequence number and the set value to be set and set the value.

Item	Type explanation	Remarks
vntParam	VT_ARRAY VT_VARIANT	The range of i is 0 -
	O VT_ARRAY VT_VARIANT	The range of 1 and j is
	O. i VT_ARRAY VT_VARIANT	1 - It is four.
	O. i. OVT_I2 A set lamp is specified.	The part that exceeded
	1: Lamp 1	the range is
	2: Lamp 2	disregarded.
	0. i. jVT_ARRY VT_I2	
	O. i. j. OVT_I2 The set sequence number is specified.	
	1: Sequence 1	
	2: Sequence 2	
	3: Sequence 3	
	4: Sequence 4	
	0. i. j. 1VT_I2 [Totonohikaatai] is specified.	
	Range of value: 0 ~ 999	
	0. i. j. 2VT_I2 The width of the issue is specified.	
	Range of value: 0 ~ 999	
	1 VT_I2 Writing preservation flag	The writing
	0: The writing value is not preserved	preservation flag can
	(default).	be omitted.
	1: The writing value is preserved.	
pVa I	None	

Usage example

CaoController. Execute ("WriteLightingValueSetting", Array (Array (Array (1, Array (1, 300, 10), Array (3, 1, 10)),

Array (2, Array (1, 200, 10), Array (4, 50, 10))), 0))

ReadLightingValueSetting

It is a command in which the setting of the lighting value of the lamp and each sequence is written. Please set the sequence number and the set value to be set and set the value.

Item	Type explanation	Remarks
vntParam	VT_ARRAY VT_I2	
	0 VT_I2 The lamp is specified.	
	1: Lamp 1	
	2: Lamp 2	
	3: All lamps	
	1 VT_I2 The sequence number is specified.	
	1: Sequence 1	
	2: Sequence 2	
	3: Sequence 3	
	4: Sequence 4	
	5: All sequence numbers	
pVal	VT_ARRAY VT_VARIANT	The range of i is 0 -
	0 VT_ARRAY VT_VARIANT	The range of 1 and j is
	O. i VT_ARRAY VT_VARIANT	1 - It is four.
	0. i. 0VT_I2 Lamp (i+1) is acquired.	The part that exceeded
	0. i. jVT_ARRY VT_I2	the range is
	0. i. j. OVT_I2 Sequence number (j) is acquired.	disregarded.
	O.i.j.1VT_I2 [Totonohikaatai] is acquired.	
	Range of value: 0 ~ 999	
	O.i.j.2VT_I2 The width of the issue is acquired.	
	Range of value: 0 ~ 999	
pVal	None	

Usage example

 ${\tt CaoController.\,Execute\,("ReadLightingValueSetting",Array\,(3,5))}$

WriteLightingControlInput

It is a command in which the setting of the lighting control input of each sequence is written. Please set the sequence number and the set value to be set and set the value.

Item	Type explanation	Remarks		
vntParam	VT_ARRAY VT_VARIANT	The range of i is 0 -		
	0 VT_ARRAY VT_VARIANT	The range of 1 and j is		
	O. iVT_ARRAY VT_VARIANT	1 - It is four.		
	O.i.OVT_I2 A set lamp is specified.	The part that exceeded		
	1: Lamp 1	the range is		
	2: Lamp 2	disregarded.		
	0. i. jVT_ARRY VT_I2			
	0. i. j. OVT_I2 The set sequence number is specified.			
	1: Sequence 1			
	2: Sequence 2			
	3: Sequence 3			
	4: Sequence 4			
	0. i. j. 1VT_I2 The lighting control input is specified.			
	1: Lighting control input 1			
	2: Lighting control input 2			
	1 VT_I2 Writing preservation flag	The writing		
	0: The writing value is not preserved	preservation flag can		
	(default).	be omitted.		
	1: The writing value is preserved.			
pVal	None			

Usage example

CaoController. Execute ("WriteLightingControlInput", Array (Array (Array (1, Array (1, 1), Array (3, 2)),

Array (2, Array (1, 2), Array (4, 1))), 0))

ReadLightingControlInput

It is a command in which the setting of the lighting control input of the lamp and each sequence is written. Please set the sequence number and the set value to be set and set the value.

Item	Type explanation	Remarks		
vntParam	VT_ARRAY VT_I2			
	0 VT_I2 The lamp is specified.			
	1: Lamp 1			
	2: Lamp 2			
	3: All lamps			
	1 VT_I2 The sequence number is specified.			
	1: Sequence 1			
	2: Sequence 2			
	3: Sequence 3			
	4: Sequence 4			
	5: All sequence numbers			
pVal	VT_ARRAY VT_VARIANT	The range of i is 0 -		
	0 VT_ARRAY VT_VARIANT	The range of 1 and j is		
	O. i VT_ARRAY VT_VARIANT	1 - It is four.		
	0. i. 0VT_I2 Lamp (i+1) is acquired.	The part that exceeded		
	0. i. jVT_ARRY VT_I2	the range is		
	0. i. j. 0VT_I2 Sequence number (j) is acquired.	disregarded.		
	O.i.j.1VT_I2 The lighting control input is acquired.			
	1: Lighting control input 1			
	2: Lighting control input 2			
pVal	None			

Usage example

 ${\tt CaoController.Execute} \ ("ReadLightingControlInput", Array (3,5))$

ReadCurrentData

It is a command that reads the value of each lamp now. Please specify the lamp number to be read.

Item	Туј	pe expla	nation	Remarks	
	VT.	_I2	The rea	d lamp is specified.	
vntParam			1: Lam	p 1	
viilraraiii			2: Lam	p 2	
			3: All lamps		
pVal	VT.	_ARRAY	VT_VAR	The range of i is 0 - It	
	0	VT_ARRA	Y VT_V	ARIANT	is one.
		0. i VT_A	RRAY V	T_I2	
		0. i.	0VT_I2	Lamp (i+1) is acquired.	
		0. i.	1VT_I2	The monitor value is acquired.	
				Range of value: 0 ~ 4095	
		0. i.	2VT_I2	Brightness is absolutely acquired.	
				Range of value: 0 ~ 4095	
		0. i.	3VT_I2	Interior temperature (°C) is acquired.	
				Range of value: -100°C ∼ 155°C	

Usage example

 ${\tt CaoController.\,Execute}\,(\text{``ReadCurrentData''},\ 3)$

ReadCorrectionDimmingValue

It is a command that reads [totonohikaatai] after it corrects it by simple feedback. Please specify the lamp number to be read.

Item	Тур	ре е	explar	nation		Remarks
	VT_I2		-	The read	lamp is specified.	
wat Dawam				1: Lamp	1	
vntParam				2: Lamp	2	
				3: All	lamps	
pVal	VT_	_ARF	RAY	VT_VARIA	NT	The range of i is 0 - It
	0 VT_ARRAY VT_VARIANT 0. iVT_ARRAY VT_I2					is one.
			0. i. 0	VT_I2	Lamp (i+1) is acquired.	
			0. i. 3	VT_I2	Correction [totonohikaatai] is acquired.	
					Range of value: 0 ~ 999	

Usage example

 ${\tt CaoController.\,Execute}\,(\text{``ReadCorrectionDimmingValue''},\ 3)$

GetTimeout

It is a command to acquire set timeout period (ms).

Item	Type explanation				
vntParam	None	ione			
pVal	VT_UI2	Time-out value (ms)			
		0 ~			

Usage example

CaoController. Execute("GetTimeout")

SetTimeout

It is a command that sets timeout period (ms).

Item	Type explanation				
vntParam	VT_UI2	Time-out value (ms)			
		0 ~			
pVal	None				

Usage example

CaoController. Execute ("SetTimeout", 500)

2.4. Variable list

Table2.4The variable list that can be used in [ni] controller class is described.

Table2.4Controller class variable list

Variable identifier	Explanation		Attribute	
variable lucillilei			get	put
@MAKER_NAME	The manufacturer name is acquired.	VT_BSTR	_	
@VERSION	The device version is acquired.	VT_BSTR	-	
	Status is acquired in the bit flag form.			
	The meaning of each bit is as follows. (# shows the bit.)			
	#0: Internal circuit communication abnormality			
	#1: More than power supply temperature			
	#2: Failure			
	#3: 18V in the input voltage is abnormal.			
	#4: Internet Protocol address overlaps.			
	#5: DHCP error			
@STATUS	#6: LAMP1 feedback error	VT IA		
WSTATUS	#7: LAMP2 feedback error	VT_I4	_	
	#8: LAMP1 6V supply			
	#9: LAMP1 monitor brightness alarm			
	#10: LAMP1 overcurrent			
	#11: LAMP1 output stop			
	#12: LAMP2 6V supply			
	#13: LAMP2 monitor brightness alarm			
	#14: LAMP2 overcurrent			
	#15: LAMP2 output stop			

3. Sample program

An easy sample to acquire the state of status of the device is shown as follows.

```
Precondition:
•The address of the device is adjusted to 192.168.10.1.
```

List 3-1 Sample. frm

```
Dim eng As CaoEngine
Dim ctrl As CaoController
Dim var As CaoVariable
Private Sub Form_Load()
        Set eng = New CaoEngine
        ' make controller object.
        Set ctrl = eng. Workspaces (0). AddController (
                 "CaoProv. OPTEX-FA. OPPD",
                 "CONN=TCP: 192, 168, 10, 1")
        ' make controller variable object.
        Set var = ctrl. AddVariable ("@STATUS", "")
End Sub
' Get value
Private Sub GetValue_Click()
        ' Get control variable value
        Dim value As Variant
        Set value = ctrl. Value
End Sub
```