Self-contained luminaire system CGLine+:OPC - BMS Interface
Technical information

Interface for Building Management Systems

Powering Business Worldwide

OPC Server for BMS
For easy facility management

A building management system (BMS) is a computer-based control system usually installed in large buildings in order to control and monitor the building's mechanical and electrical equipement such as ventilation, power systems, fire systems, lighting, etc. BMS systems are a critical component to managing energy consumption and improve reliability and life safety.

In order to support facility managers in their effort of monitoring and targeting energy consumption, improve life safety, save time and money during maintenance, Eaton enables its CGLine+ systems to communicate with their BMS through an OPC server.

This document describes the items which are usable for BMS software, all other items in the OPC-Server are reserved for CGVision applications.

Features:

- Easy BMS connection via IP based OPC DA2.0
- One OPC-Server for up to 32 CGLine+ Web-Controller
- 20 sum status information of each CGLine+ Web-Controller
- 10 commandos from BMS to each CGLine+ Web-Controller
- Definition of up to 8 function test groups & 8 duration test groups
- 20 sum status information of each single lines 1-4
- 20 sum status information of each single zone 1-16
- 16 status information of each single luminaire 1-800

Content

General

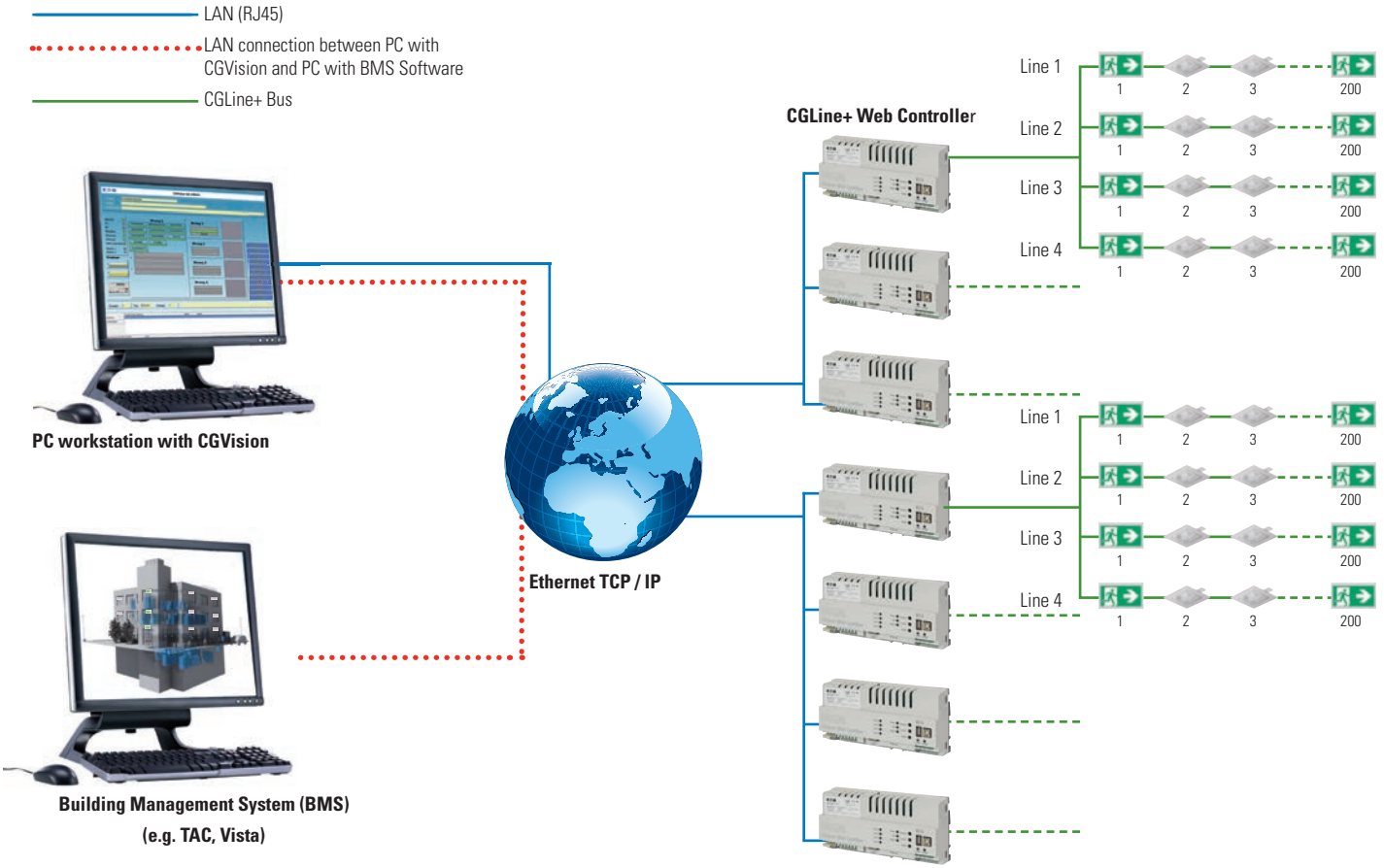
Name of the OPC Server: **“OPC_CGLine_PLUS”**

The CGLine Plus OPC Server conforms to the OPC Data Access Automation Specification 2.0 of the OPC Foundation.

The CGLine Plus OPC Server provides items to connect a BMS to CGLine+ Web-Controller.

Note: By using a CGVision, the system will be automatically added to the CGLine Plus OPC Server when the system will be configured on CGVision. Only the single datapoints for Zones and Lamps have to be configured manual, if this datapoints are necessary.

Scematic overview:



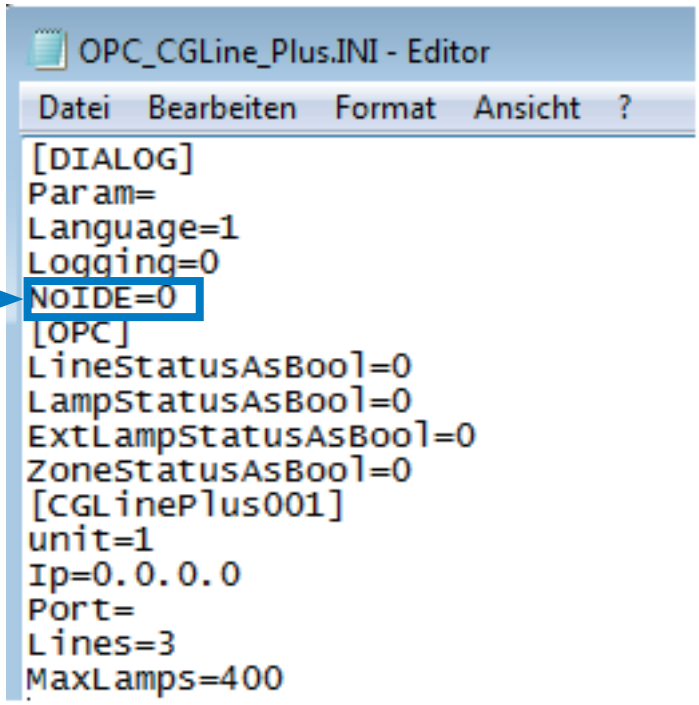
CGLine Plus OPC Server - Debug mode activation

Debug mode of the CGLine Plus OPC Server can be activated with following entry on the "OPC_CGLine_Plus.ini" file:

- Set entry "NoIDE=0" on section "Dialog"

Folder of the Ini-File: *C:\Program Files (x86)\CEAG\CGLine Plus OPC Server\OPC_CGLine_Plus.ini*

To activate CGLine Plus OPC Server in debug mode, following entry is necessary

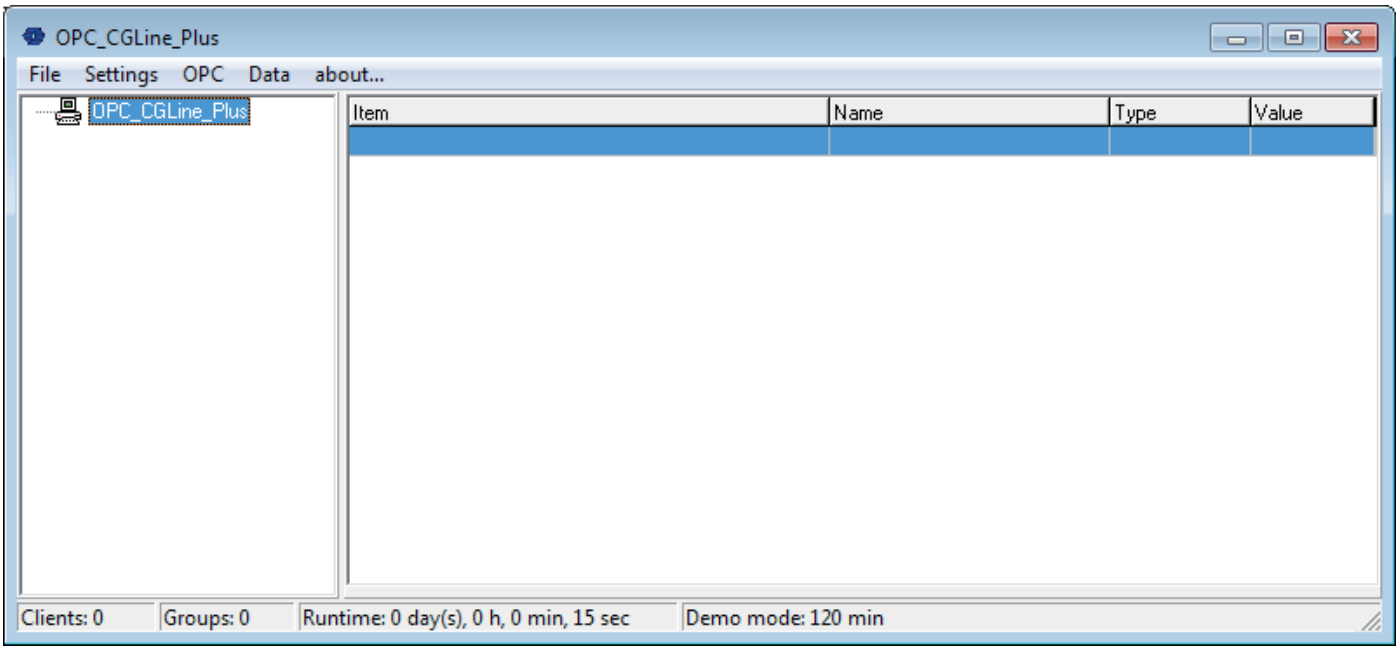


ATTENTION: Remove the debug mode (set NoIDE=1), when the BMS configuration has finished.

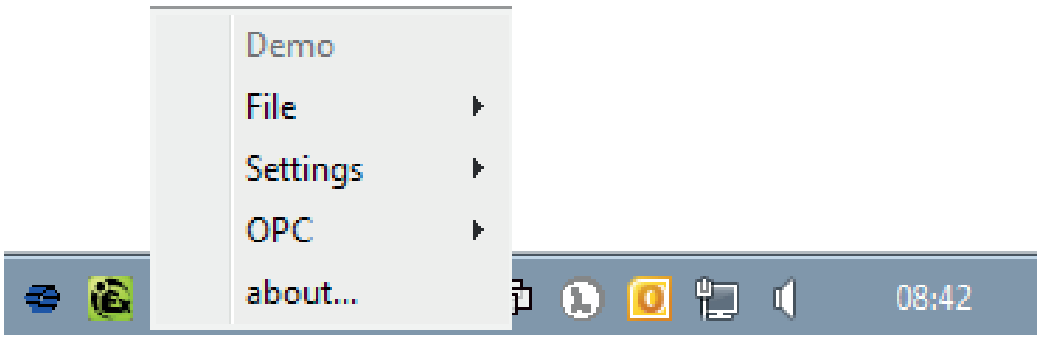
CGLine Plus OPC Server – Start CGLine Plus OPC Server

Start "OPC_CGLIne_Plus.exe" file in the folder *"C:\Program Files (x86)\CEAG\CGLine Plus OPC Server\."*
CGLine Plus OPC Server is executed as background task. An icon appears on the Windows status bar.

Double click on OPC_CGLine_Plus icon:
1- If Debug mode is activated (NoIDE=0), OPC_CGLine_Plus interface appears.

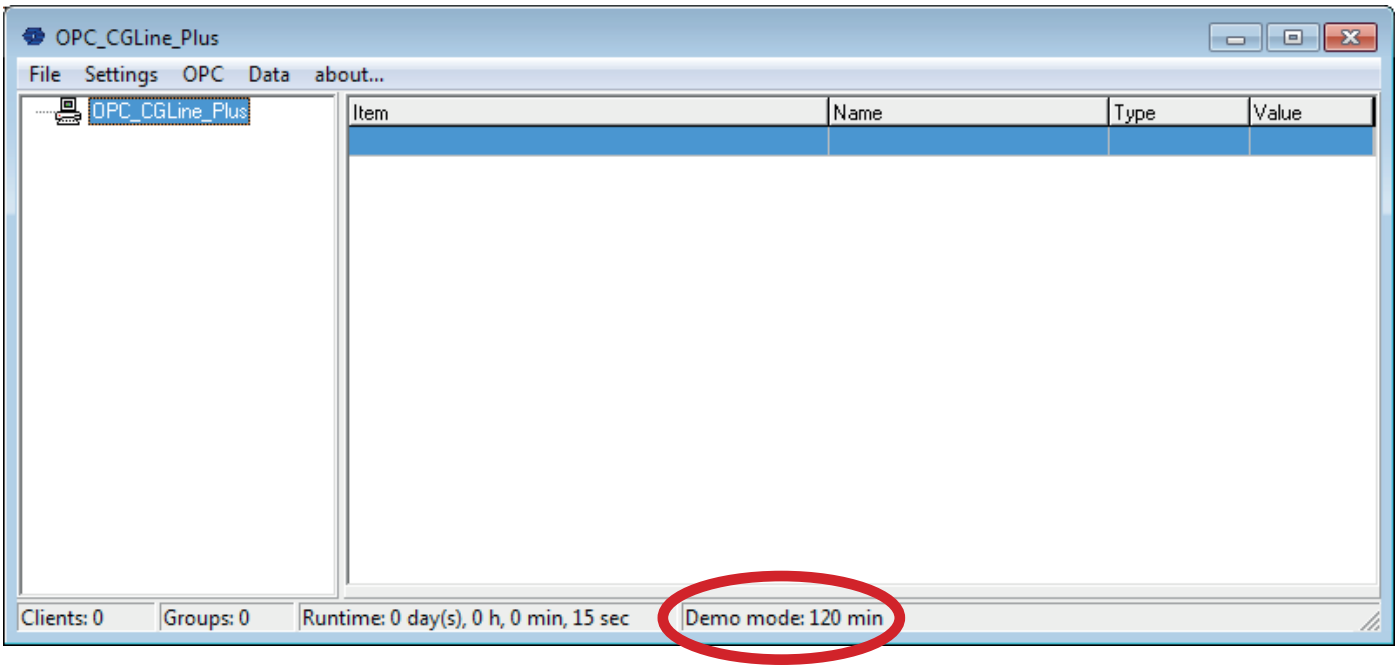


2- If debug mode is not activated (NoIDE=1), only the Pullup-Menu occurs.

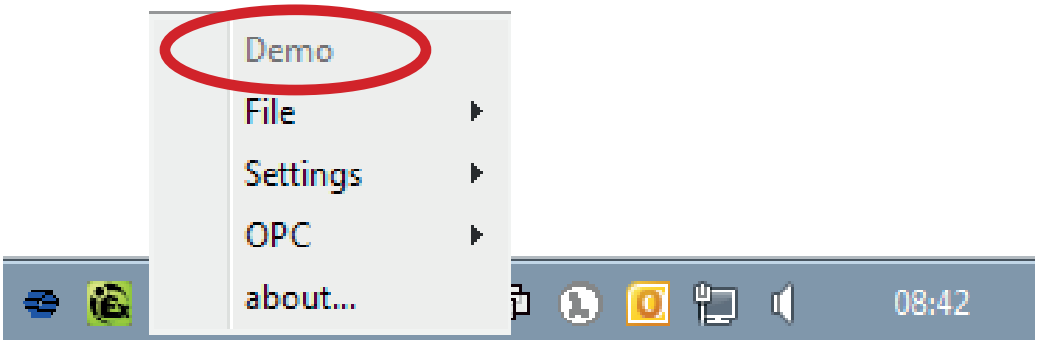


If license is not available, OPC_CGLine_Plus can be used for 2 hours only.
The demo mode will be shown on the status bar or on the pullup menu:.

Debug mode (NoIDE=0):

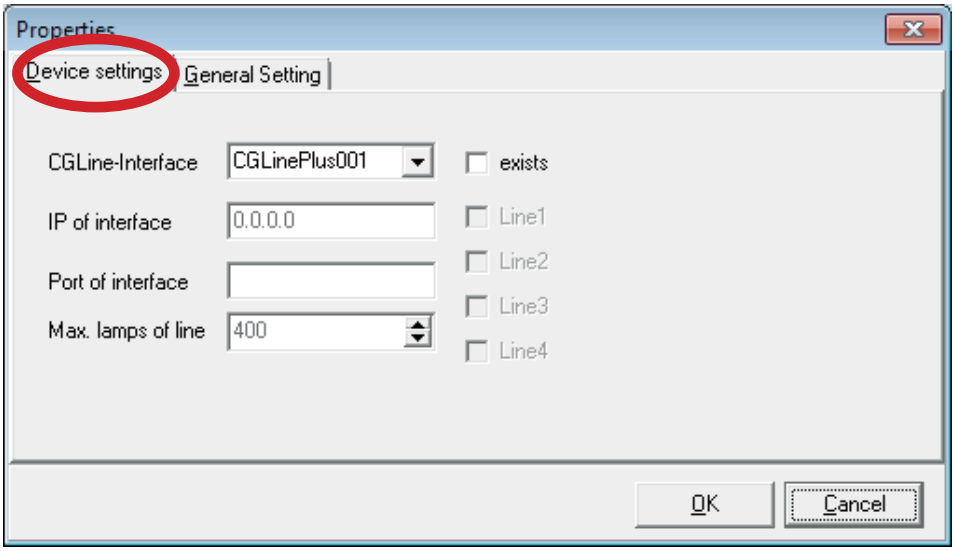


Normal mode (NoIDE=1):



CGLine Plus OPC Server – Connect/Add CGLine+ Web-Controller

On "Setting"-menu, select "Configuration" and change the settings in the Dialog "Properties"



Configure a system

ATTENTION:

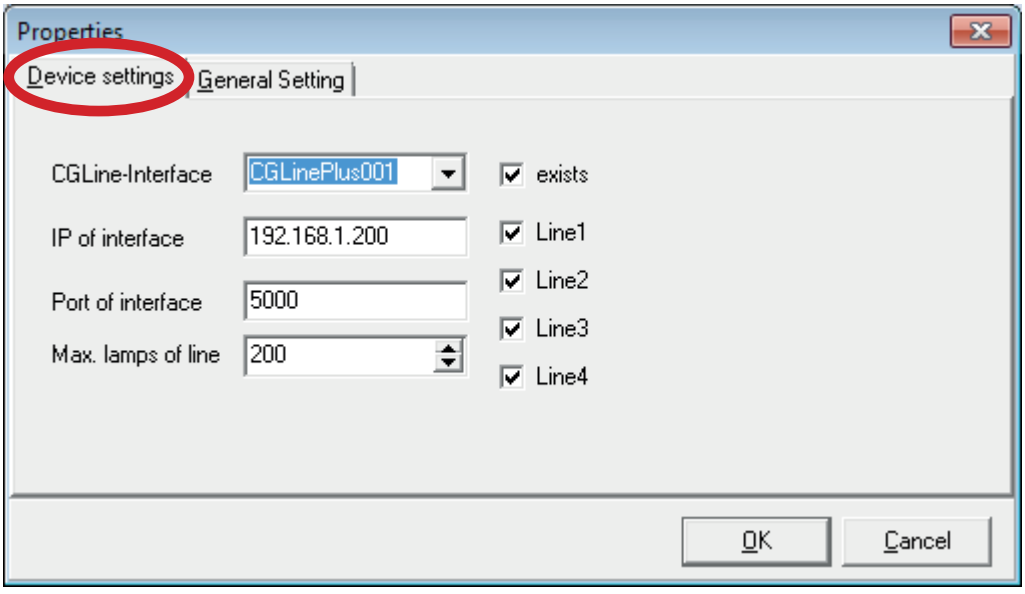
The CGLine+ Web-Controller can be used as 2 line system with 400 lamps per line or as 4 line system with 200 lamps per line. The configuration of the system on CGLine Plus OPC Server have to be absolutely the same as the setting on the CGLine+ Web-Controller.

The port of the CGLine+ Web-Controller is currently fix (Port: 5000) and cannot be changed.

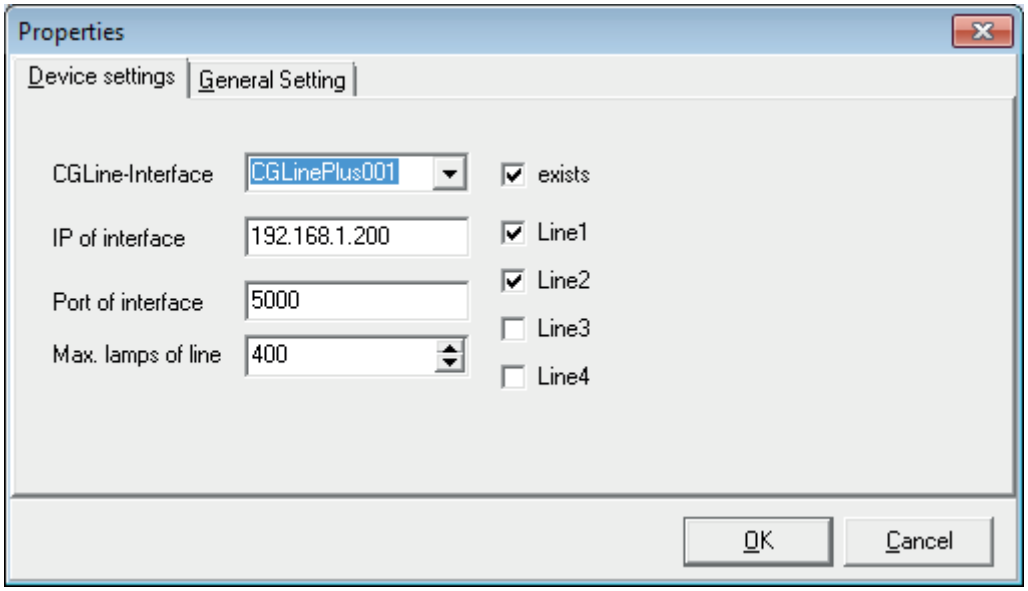
Select "Device Settings":

- Select "CGLinePlus001" for example on "CGLine-Interface" area.
- Click on "Exists"
- Select number of lines (4 Line system (Line1- Line4) or 2 Line system (Line1 and Line2))
- Insert the IP Address of the CGLine+ Web-Controller on "IP of interface"
- Insert Port 5000 on "Port of interface"
- Insert lamps per line on "Max. lamps of line" (4 Line system (200) or 2 Line system (400))

Configuration of 4 Line CGLine+ Web-Controller with 200 lamps per line:



Configuration of 2 Line CGLine+ Web-Controller with 400 lamps per line:

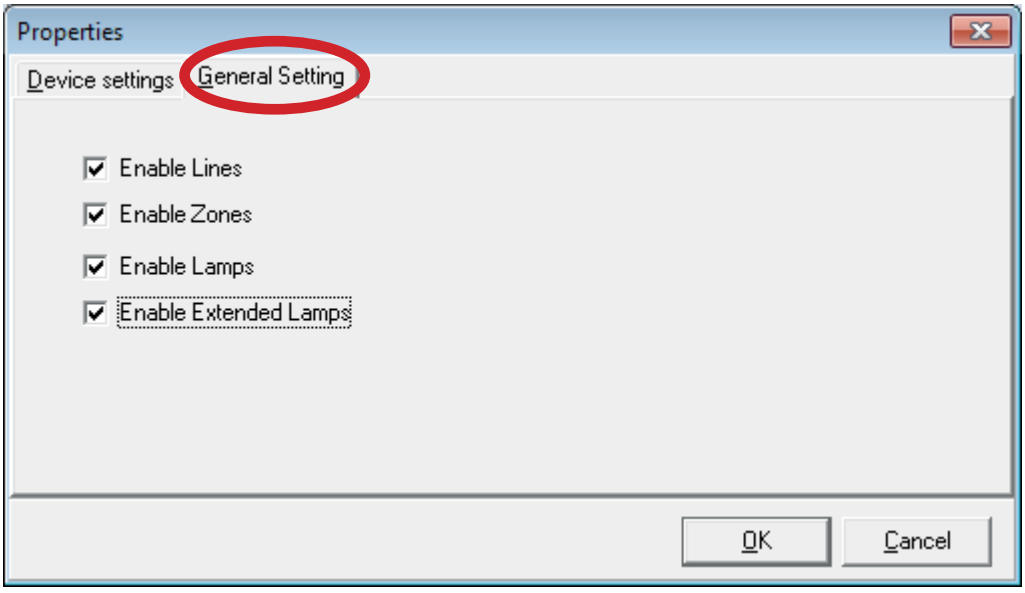


Select "General Settings":

Depended on the datapoints which shall be used, the single datapoints can be selected on this dialog.

- Enable Lines -> enable the line datapoints
- Enable Zones -> enable the zone datapoints
- Enable Lamps -> enable the lamp datapoints
- Enable Extended Lamps -> enable the extended lamp datapoints

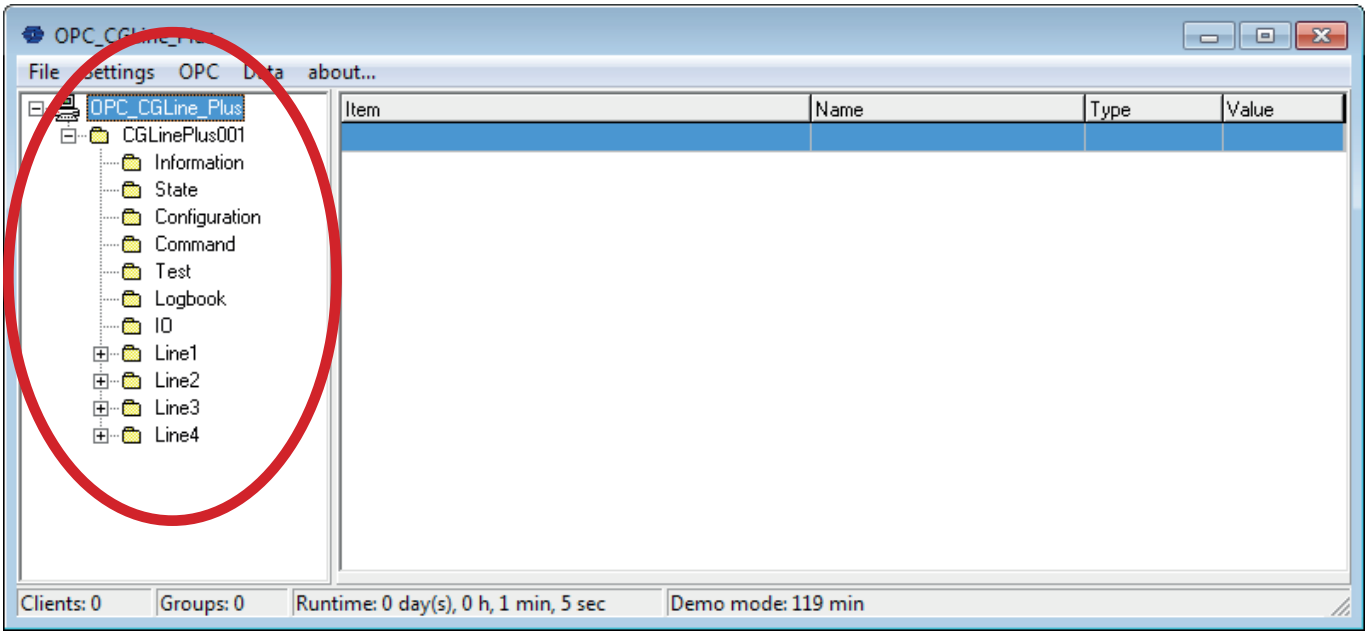
NOTE: the number of datatpoints has influence to the startup time of the OPC



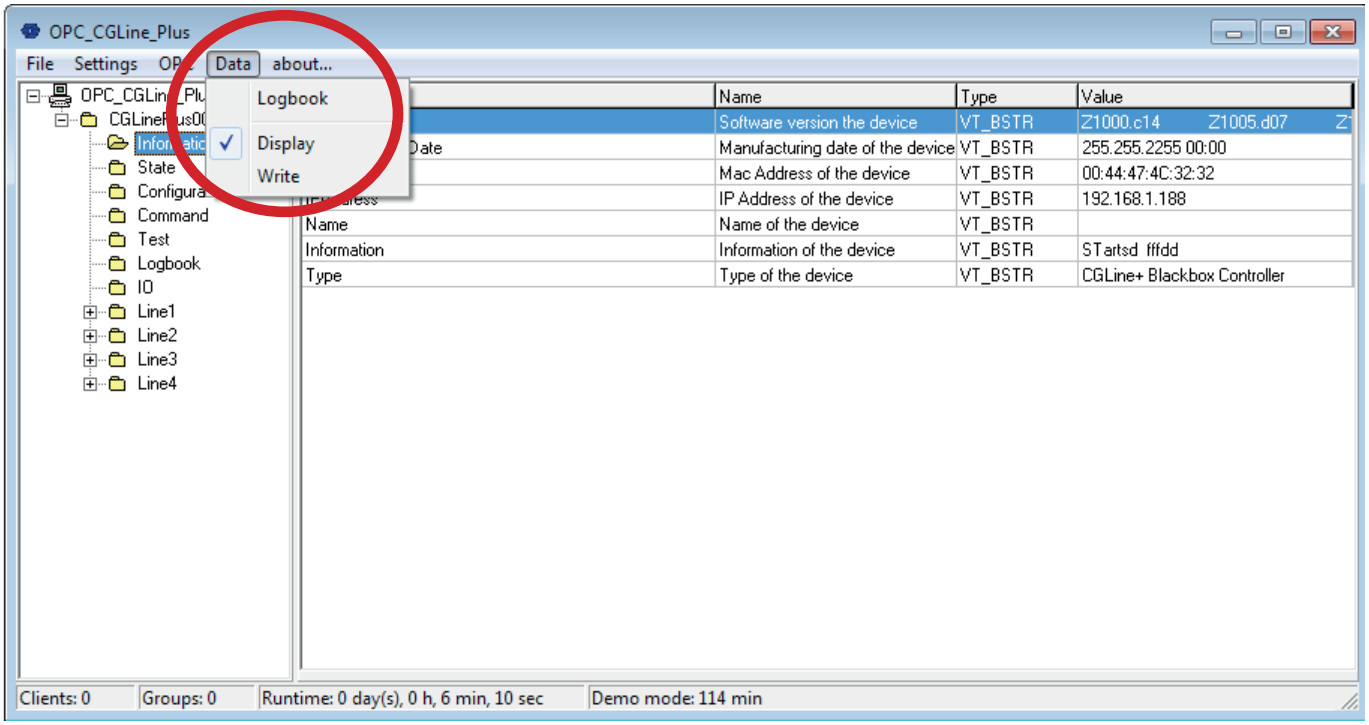
Click on "OK" to validate the values and restart CGLine Plus OPC Server to save the configuration.

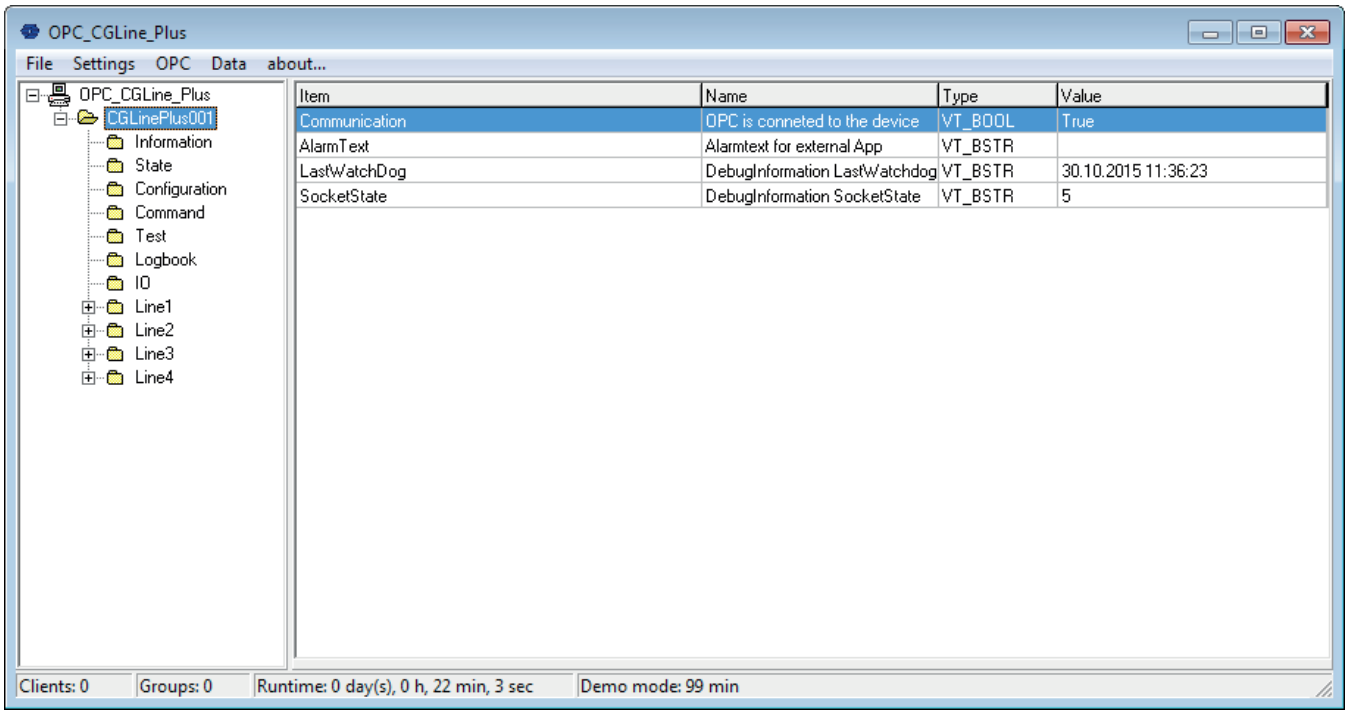
CGLine Plus OPC Server – Connect/Add CGLine+ Web-Controller

The new system will be shown in the device tree after restart of the OPC server..



Activate “Display” to view the values of the datapoints.

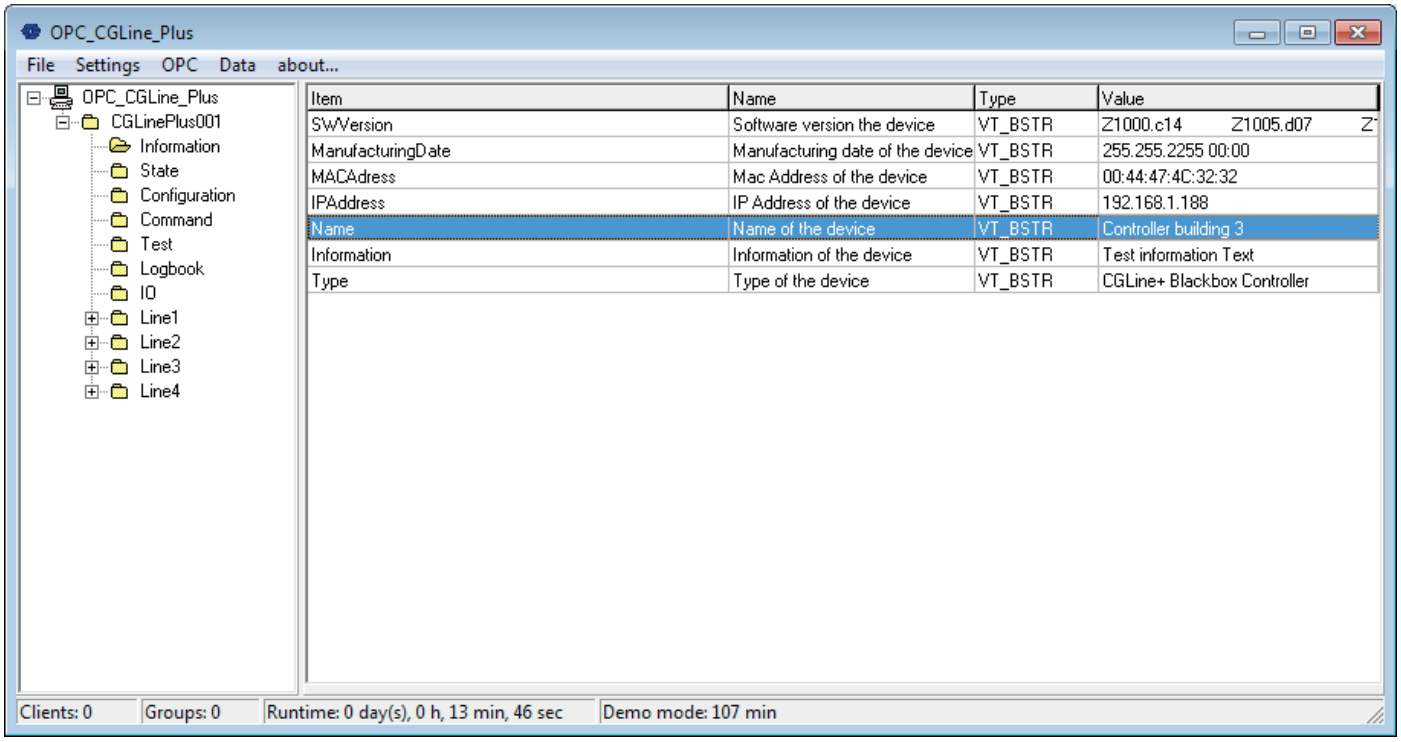




Description:

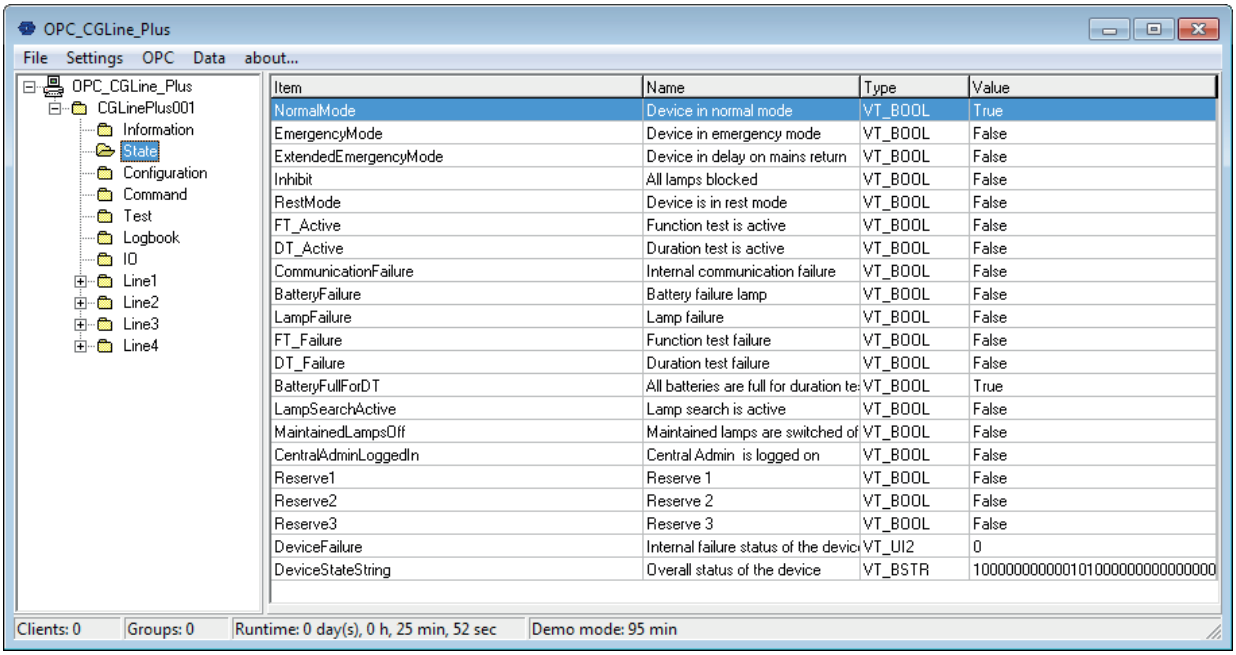
OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
COMMUNICATION	BOOLEAN	VT_BOOL	R	TRUE / FALSE	OPC IS CONNECTED TO THE DEVICE
ALARMTEXT	STRING	VT_BSTR	R / W		NOT USED
LASTWATCHDOG	STRING	VT_BSTR	R		DEBUGINFORMATION LAST WATCHDOG
SOCKETSTATE	STRING	VT_BSTR	R		DEBUGINFORMATION SOCKETSTATE

CGLine Plus OPC Server – Information



Description:

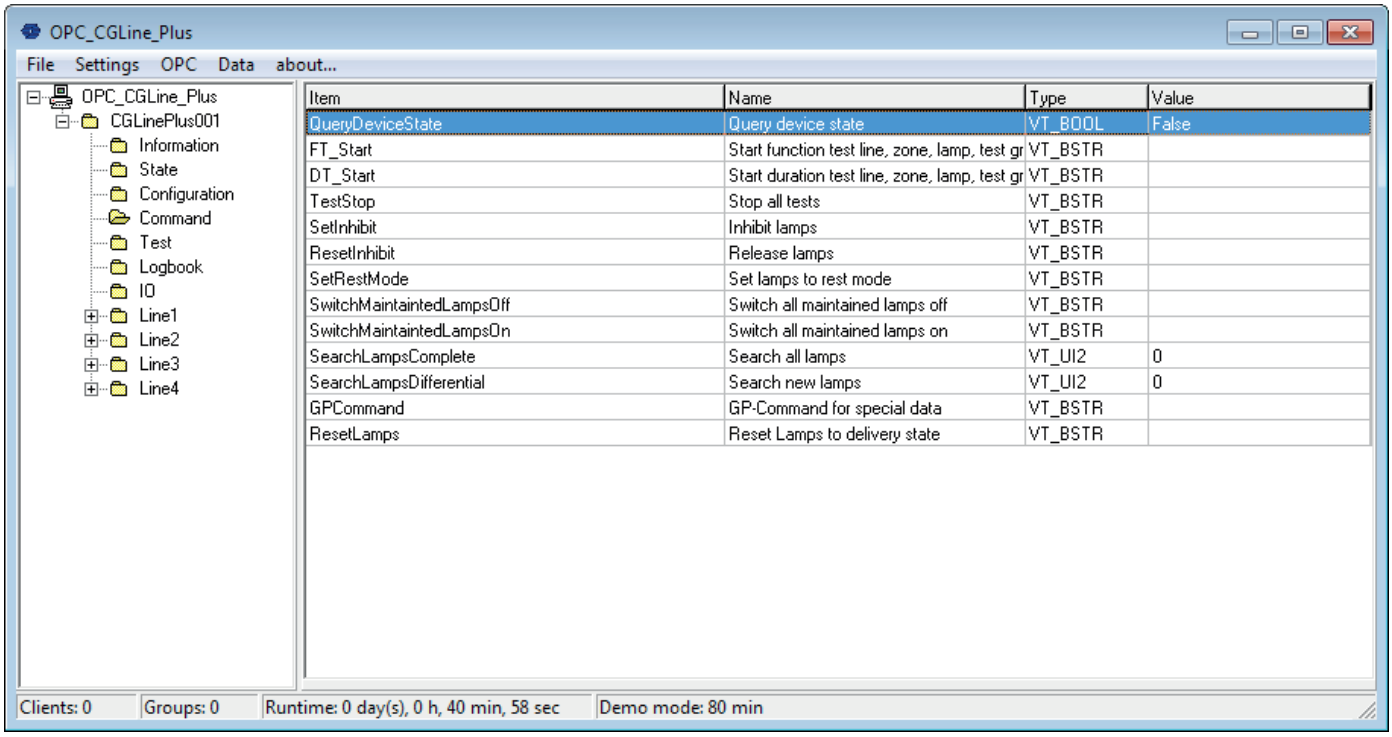
OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
SWVERSION	STRING	VT_BSTR	R	MAX 30 CHAR	SOFTWARE VERSION THE DEVICE
MANUFACTURINGDATE	STRING	VT_BSTR	R	DD.MM.YYYY	MANUFACTURING DATE OF THE DEVICE
MACADRESS	STRING	VT_BSTR	R	XX.XX.XX.XX.XX.XX	MAC ADDRESS OF THE DEVICE
IPADDRESS	STRING	VT_BSTR	R	XXX.XXX.XXX.XXX	IP ADDRESS OF THE DEVICE
NAME	STRING	VT_BSTR	R/W	40 CHAR.	NAME OF THE DEVICE
INFORMATION	STRING	VT_BSTR	R/W	255 CHARACTERS	INFORMATION OF THE DEVICE
TYPE	STRING	VT_BSTR	R	MAX. 40 CHAR.	TYPE OF THE DEVICE



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
NORMALMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DEVICE IN NORMAL MODE
EMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DEVICE IN EMERGENCY MODE
EXTENDEDEMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DEVICE IN DELAY ON MAINS RETURN
INHIBIT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DEVICE IS IN INHIBIT MODE
RESTMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DEVICE IS IN REST MODE
FT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST IS ACTIVE
DT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST IS ACTIVE
COMMUNICATIONFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	INTERNAL COMMUNICATION FAILURE
BATTERYFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	BATTERY FAILURE LAMP
LAMPFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP FAILURE
FT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST FAILURE
DT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST FAILURE
BATTERYFULLFORDT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ALL BATTERIES ARE FULL FOR DURATION TEST
LAMPSEARCHACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP SEARCH IS ACTIVE
MAINTAINEDLAMPSOFF	BOOLEAN	VT_BOOL	R	TRUE/FALSE	MAINTAINED LAMPS ARE SWITCHED OFF
CENTRALADMINLOGGEDIN	BOOLEAN	VT_BOOL	R	TRUE/FALSE	CENTRAL ADMIN IS LOGGED ON
RESERVE1	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DT PENDING
RESERVE2	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FT PENDING
RESERVE3	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE OVER CURRENT
DEVICEFAILURE	UINT16	VT_UI2	R		INTERNAL FAILURE STATUS OF THE DEVICE
DEVICESTATESTRING	STRING	VT_BSTR	R	40 CHARACTER	OVER ALL STATUS OF THE DEVICE

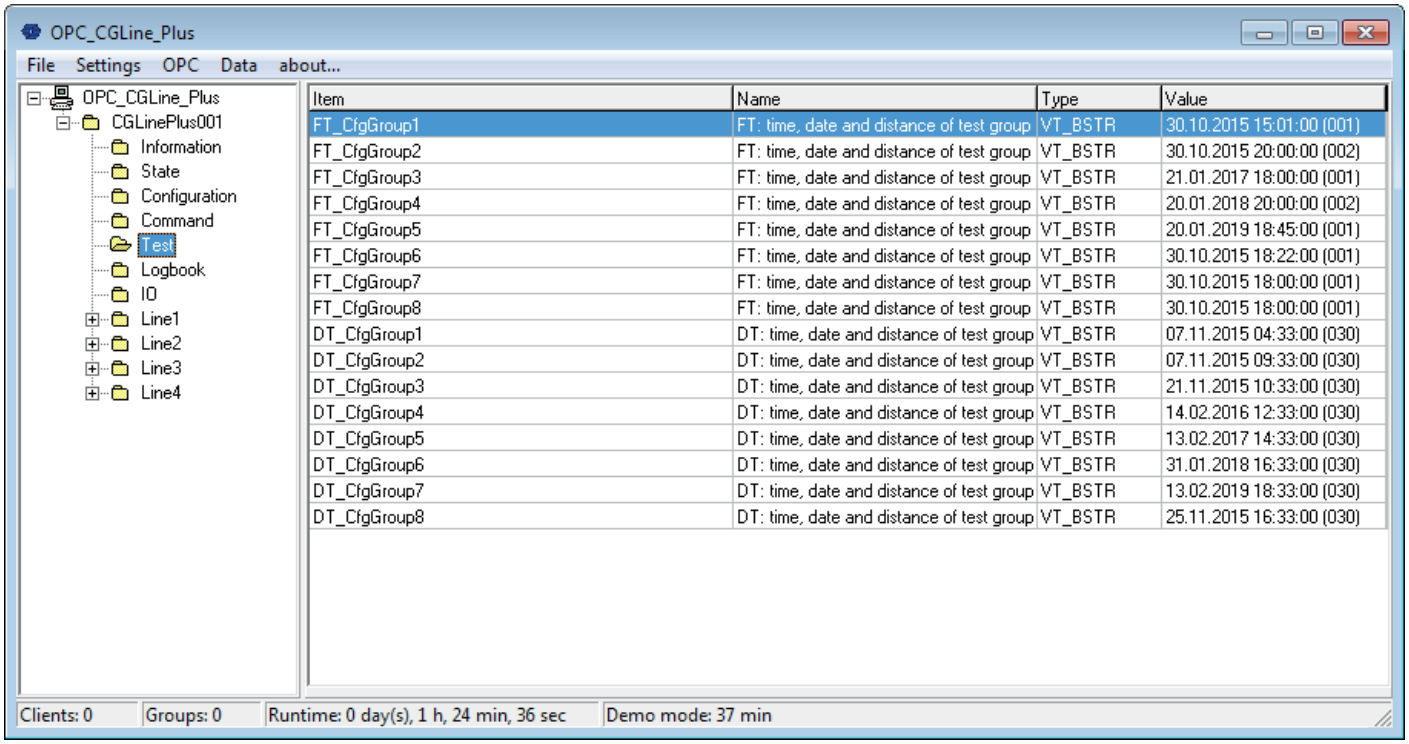
CGLine Plus OPC Server – Command



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
QUERYDEVICESTATE	BOOLEAN	VT_BOOL	W	TRUE/FALSE	QUERY DEVICE STATE
FT_START	STRING	VT_BSTR	W	XYYZZZT	START FUNCTION TEST LINE, ZONE, LAMP, TEST GROUP X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED T = TEST GROUP: 1..8; 0=NOT USED
DT_START	STRING	VT_BSTR	W	XYYZZZT	START DURATION TEST LINE, ZONE, LAMP, TEST GROUP X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED T = TEST GROUP: 1..8; 0=NOT USED
TESTSTOP	STRING	VT_BSTR	W	XYYZZZT	STOP TEST FOR LINE, ZONE, LAMP, TEST GROUP X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED T = TEST GROUP: 1..8; 0=NOT USED
SETINHIBIT	STRING	VT_BSTR	W	XYYZZZ	INHIBIT ALL LAMPS X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED
RESETINHIBIT	STRING	VT_BSTR	W	XYYZZZ	RELEASE ALL LAMPS X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED
SETRESTMODE	STRING	VT_BSTR	W	XYYZZZ	RELEASE REST MODE X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED
SWITCHMAINTAINTEDLAMPSOFF	STRING	VT_BSTR	W	XYYZZZ	SWITCH ALL MAINTAINED LAMPS OFF X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED
SWITCHMAINTAINTEDLAMPSON	STRING	VT_BSTR	W	XYYZZZ	SWITCH ALL MAINTAINED LAMPS ON X = LINE: 1..2; F=ALL YY = ZONE: 1..16; FF=ALL; 0=NOT USED ZZZ = LAMP IN ZONE: 1..100; FFF=ALL; 0=NOT USED
SEARCHLAMPSCOMPLETE	UINT16	VT_UI2	W	1=LINE 1, 2=LINE2, 0XFF=ALL	SEARCH ALL LAMPS
SEARCHLAMPSDIFFERENTIAL	UINT16	VT_UI2	W	1=LINE 1, 2=LINE2, 0XFF=ALL	SEARCH NEW LAMPS
GPCOMMAND	STRING	VT_BSTR	W		
RESETLAMPS	STRING	VT_BSTR	W		RESET LAMPS TO DELIVERY STATE

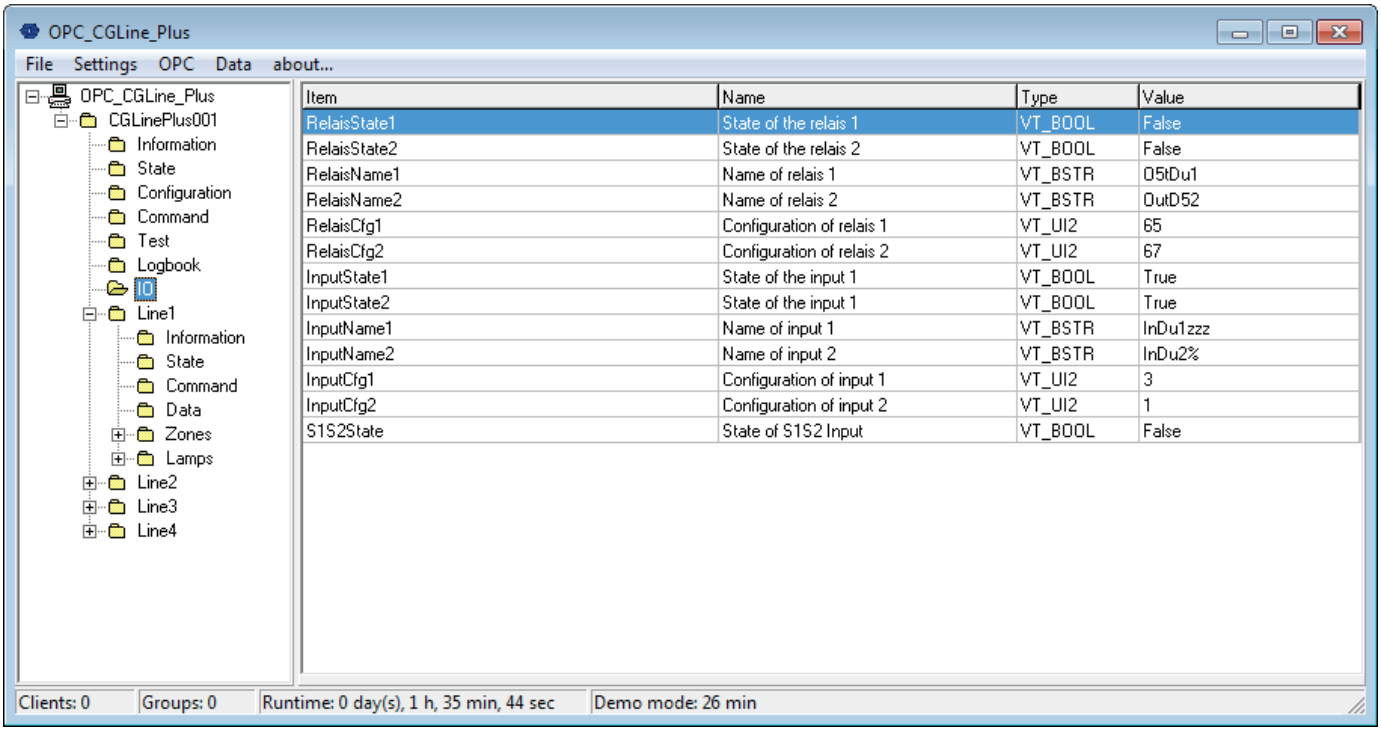
CGLine Plus OPC Server – Test



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
FT_CFGGROUP1	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 1 (DD. MM.YYYY HH:MM:SS (XX)), XX = DISTANCE IN DAYS (1..30)
FT_CFGGROUP2	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 2 (DD. MM.YYYY HH:MM:SS (XX)) , XX = DISTANCE IN DAYS (1..30)
FT_CFGGROUP3	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 3 (DD. MM.YYYY HH:MM:SS (XX)) , XX = DISTANCE IN DAYS (1..30)
FT_CFGGROUP4	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 4 (DD. MM.YYYY HH:MM:SS (XX)) , XX = DISTANCE IN DAYS (1..30)
FT_CFGGROUP5	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 5 (DD. MM.YYYY HH:MM:SS (XX)) , XX = DISTANCE IN DAYS (1..30)
FT_CFGGROUP6	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 6 (DD. MM.YYYY HH:MM:SS (XX)) , XX = DISTANCE IN DAYS (1..30)
FT_CFGGROUP7	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 7 (DD. MM.YYYY HH:MM:SS (XX)) , XX = DISTANCE IN DAYS (1..30)
FT_CFGGROUP8	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (XX)	FT: TIME, DATE AND DISTANCE OF TEST GROUP 8 (DD. MM.YYYY HH:MM:SS (XX)) , XX = DISTANCE IN DAYS (1..30)
DT_CFGGROUP1	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 1 (DD. MM.YYYY HH:MM:SS (ZZZ)), ZZZ = DISTANCE IN DAYS (1..365)
DT_CFGGROUP2	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 2 (DD. MM.YYYY HH:MM:SS (ZZZ)) , ZZZ = DISTANCE IN DAYS (1..365)
DT_CFGGROUP3	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 3 (DD. MM.YYYY HH:MM:SS (ZZZ)) , ZZZ = DISTANCE IN DAYS (1..365)
DT_CFGGROUP4	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 4 (DD. MM.YYYY HH:MM:SS (ZZZ)) , ZZZ = DISTANCE IN DAYS (1..365)
DT_CFGGROUP5	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 5 (DD. MM.YYYY HH:MM:SS (ZZZ)) , ZZZ = DISTANCE IN DAYS (1..365)
DT_CFGGROUP6	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 6 (DD. MM.YYYY HH:MM:SS (ZZZ))
DT_CFGGROUP7	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 7 (DD. MM.YYYY HH:MM:SS (ZZZ)) , ZZZ = DISTANCE IN DAYS (1..365)
DT_CFGGROUP8	STRING	VT_BSTR	R/W	DD.MM.YYYY HH:MM:SS (ZZZ)	DT: TIME, DATE AND DISTANCE OF TEST GROUP 8 (DD. MM.YYYY HH:MM:SS (ZZZ)) , ZZZ = DISTANCE IN DAYS (1..365)

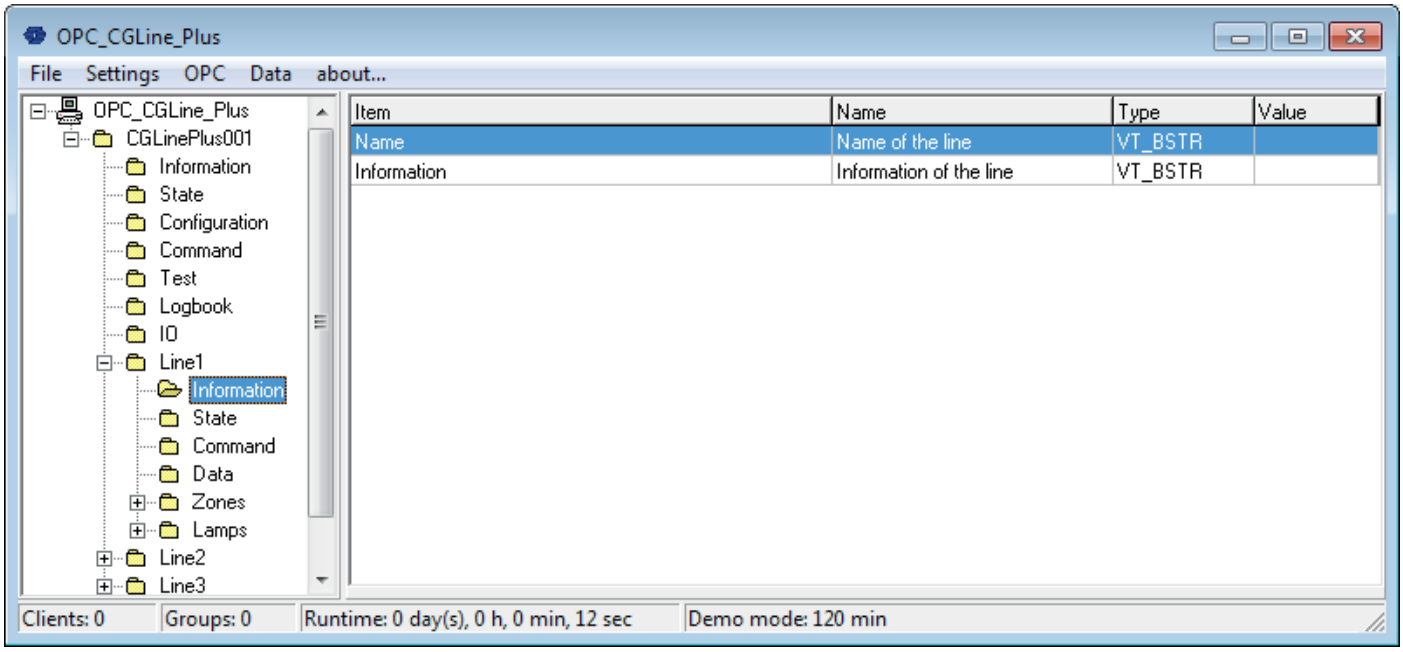
CGLine Plus OPC Server – IO



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
RelaisState1	Boolean	VT_BOOL	R	True/False	State of the relais 1
RelaisState2	Boolean	VT_BOOL	R	True/False	State of the relais 2
RelaisName1	String	VT_BSTR	R/W	20 characters	Name of relais 1
RelaisName2	String	VT_BSTR	R/W	20 characters	Name of relais 2
RelaisCfg1	UInt16	VT_UI2	R/W		Configuration of relais 1
RelaisCfg2	UInt16	VT_UI2	R/W		Configuration of relais 2
InputState1	Boolean	VT_BOOL	R	True/False	State of the input 1
InputState2	Boolean	VT_BOOL	R	True/False	State of the input 2
InputName1	String	VT_BSTR	R/W	20 characters	Name of input 1
InputName2	String	VT_BSTR	R/W	20 characters	Name of input 2
InputCfg1	UInt16	VT_UI2	R/W		Configuration of input 1
InputCfg2	UInt16	VT_UI2	R/W		Configuration of input 2

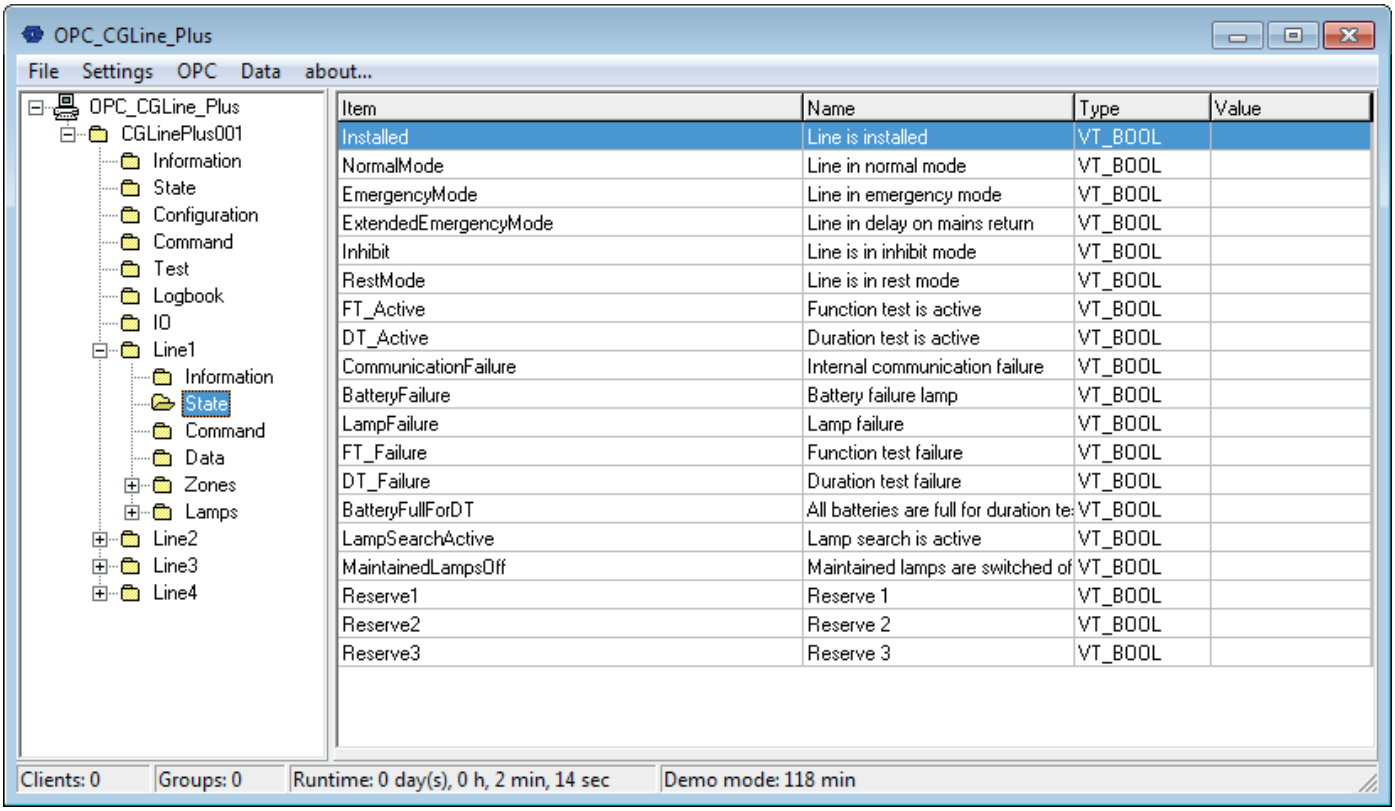
CGLine Plus OPC Server – LineX (1-4) - Information



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
NAME	STRING	VT_BSTR	R/W	20 CHARACTER	NAME OF THE LINE
INFORMATION	STRING	VT_BSTR	R/W	255 CHARCTER	INFORMATION OF THE LINE

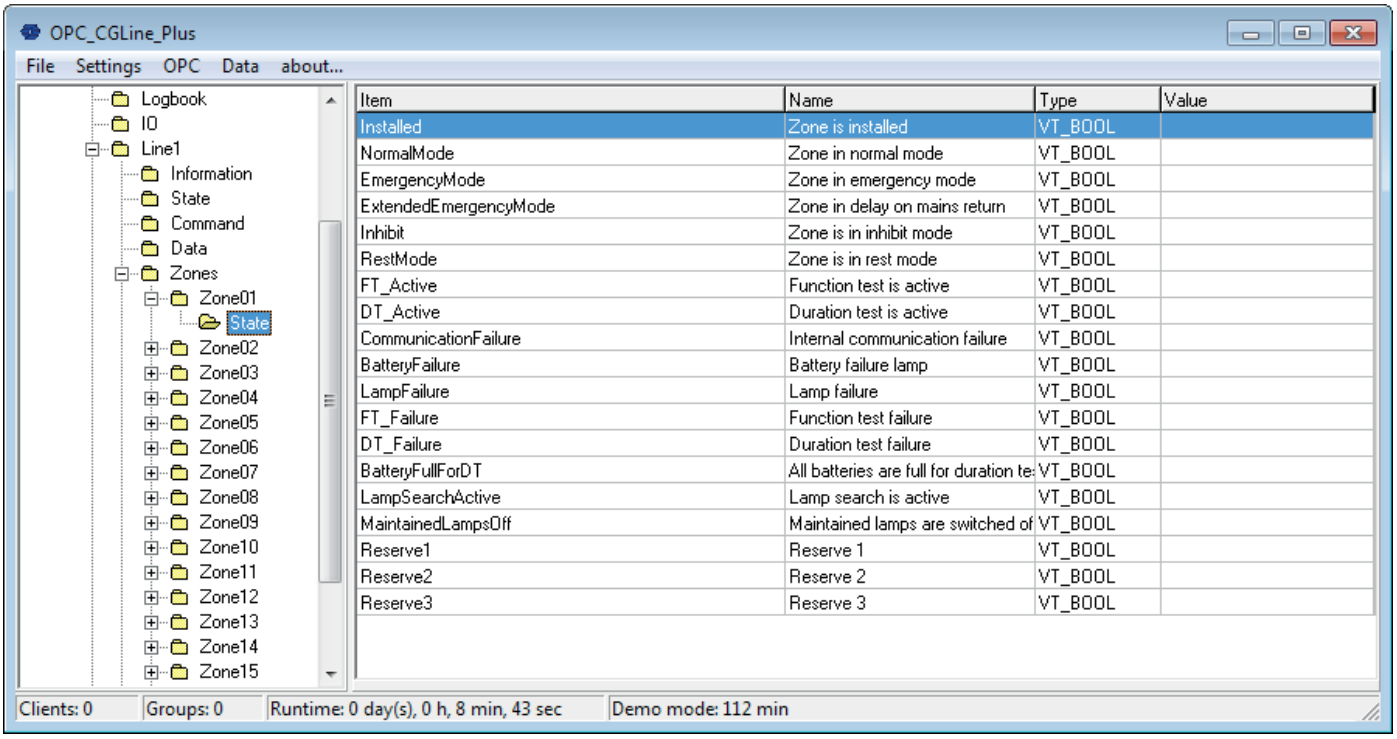
CGLine Plus OPC Server – LineX (1-4) - State



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
INSTALLED	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE IS INSTALLED
NORMALMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE IN NORMAL MODE
EMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE IN EMERGENCY MODE
EXTENDEDEMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE IN DELAY ON MAINS RETURN
INHIBIT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE IS IN INHIBIT MODE
RESTMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE IS IN REST MODE
FT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST IS ACTIVE
DT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST IS ACTIVE
COMMUNICATIONFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	INTERNAL COMMUNICATION FAILURE
BATTERYFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	BATTERY FAILURE LAMP
LAMPFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP FAILURE
FT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST FAILURE
DT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST FAILURE
BATTERYFULLFORDT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ALL BATTERIES ARE FULL FOR DURATION TEST
LAMPSEARCHACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP SEARCH IS ACTIVE
MAINTAINEDLAMPSOFF	BOOLEAN	VT_BOOL	R	TRUE/FALSE	MAINTAINED LAMPS ARE SWITCHED OFF
RESERVE1	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DT PENDING
RESERVE2	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FT PENDING
RESERVE3	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LINE OVER CURRENT

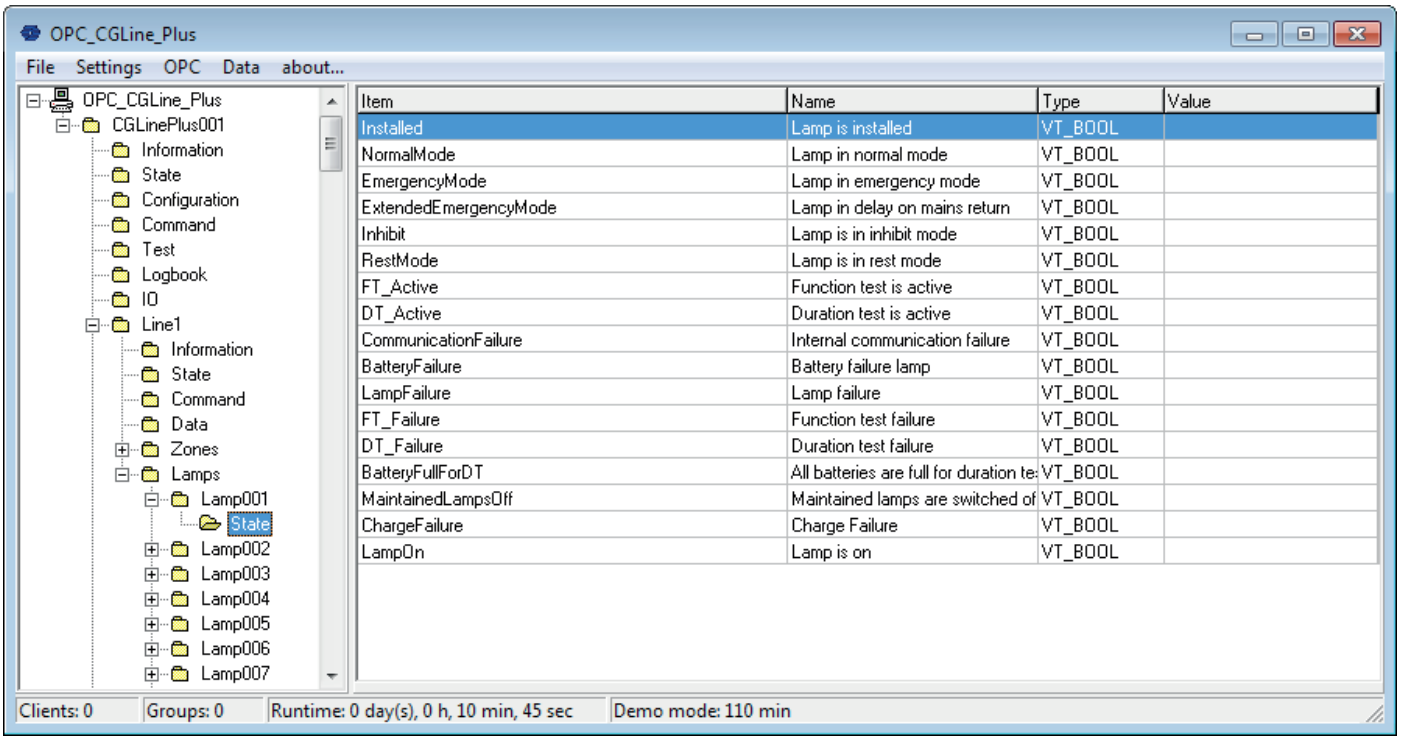
CGLine Plus OPC Server – LineX (1-4) – ZoneY (1-16) – State



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
INSTALLED	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ZONE IS INSTALLED
NORMALMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ZONE IN NORMAL MODE
EMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ZONE IN EMERGENCY MODE
EXTENDEDEMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ZONE IN DELAY ON MAINS RETURN
INHIBIT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ZONE IS IN INHIBIT MODE
RESTMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ZONE IS IN REST MODE
FT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST IS ACTIVE
DT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST IS ACTIVE
COMMUNICATIONFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	INTERNAL COMMUNICATION FAILURE
BATTERYFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	BATTERY FAILURE LAMP
LAMPFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP FAILURE
FT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST FAILURE
DT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST FAILURE
BATTERYFULLFORDT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	ALL BATTERIES ARE FULL FOR DURATION TEST
LAMPSEARCHACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP SEARCH IS ACTIVE
MAINTAINEDLAMPSOFF	BOOLEAN	VT_BOOL	R	TRUE/FALSE	MAINTAINED LAMPS ARE SWITCHED OFF
RESERVE1	BOOLEAN	VT_BOOL	R	TRUE/FALSE	RESERVE 1
RESERVE2	BOOLEAN	VT_BOOL	R	TRUE/FALSE	RESERVE 2
RESERVE3	BOOLEAN	VT_BOOL	R	TRUE/FALSE	RESERVE 3

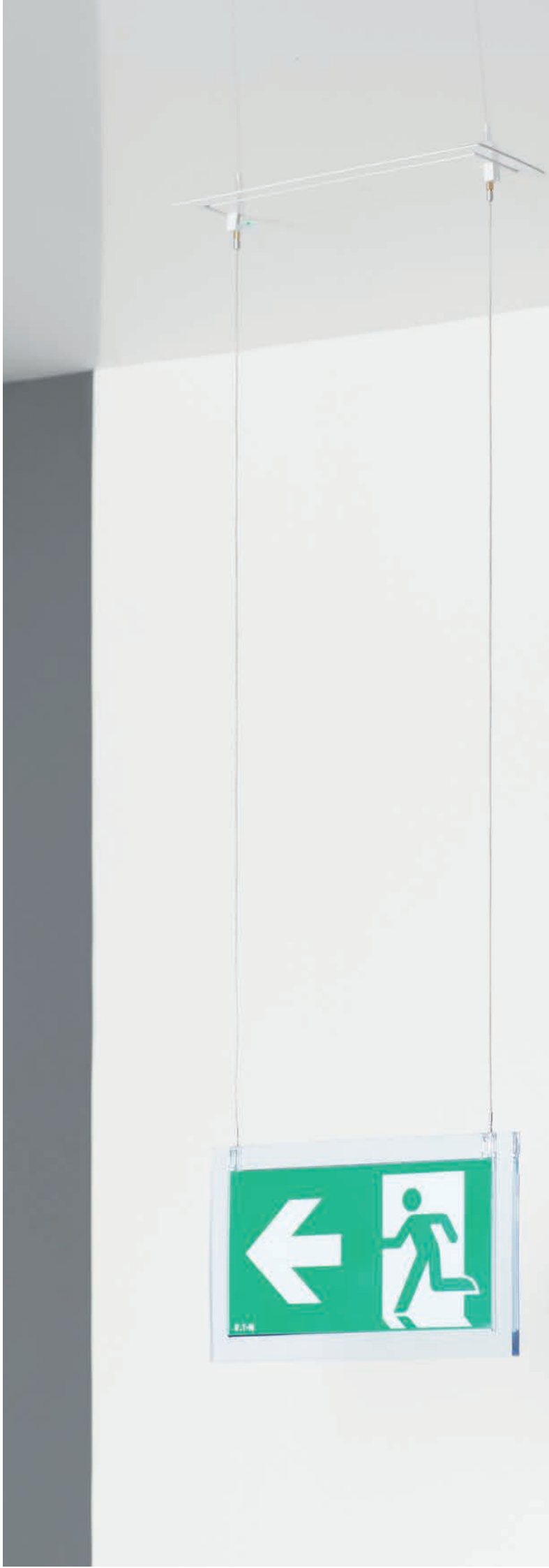
CGLine Plus OPC Server – LineX (1-4) - LampsZ (1-400) - State



Description:

OPC-Datapoint	Datapoint Type	OPC Type	Read / Write	Format	Commend field OPC Server
INSTALLED	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP IS INSTALLED
NORMALMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP IN NORMAL MODE
EMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP IN EMERGENCY MODE
EXTENDEDEMERGENCYMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP IN DELAY ON MAINS RETURN
INHIBIT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP IS IN INHIBIT MODE
RESTMODE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP IS IN REST MODE
FT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST IS ACTIVE
DT_ACTIVE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST IS ACTIVE
COMMUNICATIONFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	INTERNAL COMMUNICATION FAILURE
BATTERYFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	BATTERY FAILURE LAMP
LAMPFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP FAILURE
FT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	FUNCTION TEST FAILURE
DT_FAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	DURATION TEST FAILURE
BATTERYFULLFORDT	BOOLEAN	VT_BOOL	R	TRUE/FALSE	BATTERIE ARE FULL FOR DURATION TEST
MAINTAINEDLAMPSOFF	BOOLEAN	VT_BOOL	R	TRUE/FALSE	MAINTAINED LAMPS ARE SWITCHED OFF
CHARGEFAILURE	BOOLEAN	VT_BOOL	R	TRUE/FALSE	CHARGE FAILURE
LAMPON	BOOLEAN	VT_BOOL	R	TRUE/FALSE	LAMP IS ON

Notes



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