

# ComPLC

Smart graphical PLC logic designer

The image shows a hand pointing at a graphical user interface for ComPLC. The interface consists of several hexagonal buttons with icons and labels: KNX, E-Mail, Intercom, Timer, Flip-Flop, Counter, Output, Flags, SNMP, and ICX. Each button has a small plus sign in the top right corner. The background is dark with a blue glow around the buttons.

Logic I/O  
control

Integrated  
Online  
mode

Ready for  
Avigilon

Ready for  
KNX and  
Modbus

Webhook  
support

## Logic designer for smart security solutions

ComPLC is a graphical PLC logic designer. Various components and interfaces – such as Intercom (ICX, MX Device API), KNX, Modbus, webhooks, etc. – can be effortlessly connected in a WYSIWYG environment. Thus, individual security solutions can be easily realized also by people without programming skills.

A special feature highlight is "Online Mode". A simple click on a button in the user interface will list all traced operations of the custom-configured logic controls in real time and allows direct tracking of design errors. For recurring sequences (same logic but different inputs and outputs), ComPLC enables you to execute your designed logic for different circumstances. The highly flexible structure of the logic designer's user interface provides an excellent overview even of large projects.

Once the configuration of the logic control sequence has been completed, it can be uploaded and run on a Virtuosis software-based Intercom Server.

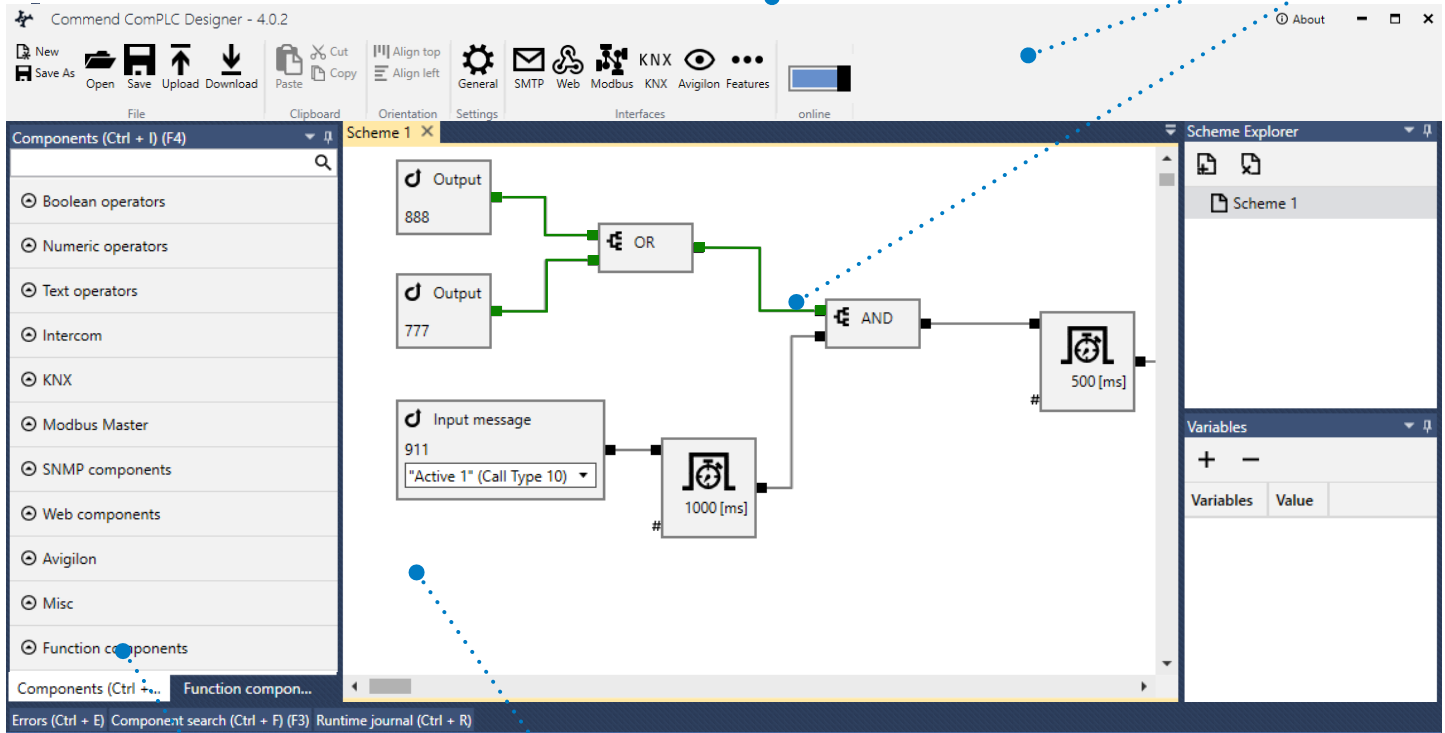
## Features and highlights

- Windows-based graphical design application
- Stand-alone execution of the designed sequences on Virtuosis
- The virtual application card of Virtuosis is configured automatically by ComPLC designer
- Use of ICX messages
- Support of webhook commands via HTTP/HTTPS
- Configuration of individual functional components
- Drag-and-drop ease
- Ready for KNX interface to connect up to 50 KNX NET/IP gateway devices
- Ready for Modbus interface to connect up to 50 slave devices
- Integrated online mode for tracing operations in real time
- Send emails triggered by events
- Support of SNMP functions
- Ready for Avigilon interface to send and receive alarms
- Integration of Symphony MX call state information

## Key benefits at a glance

The software can be used in combination with the Intercom Server's built-in standard set of I/O control functions and adds the ability to communicate directly with third-party systems via standard protocols such as ModbusTCP (for industrial equipment), KNX (for building equipment) and Comend's own ICX (for Intercom equipment).

A special feature highlight is "Online Mode": clicking on a button in the user interface will list all traced operations of the custom-configured logic controls in real time. Especially when it comes to tracking design errors in logic control sequences, operators will find this is an extremely useful feature that saves them a lot of time and effort.



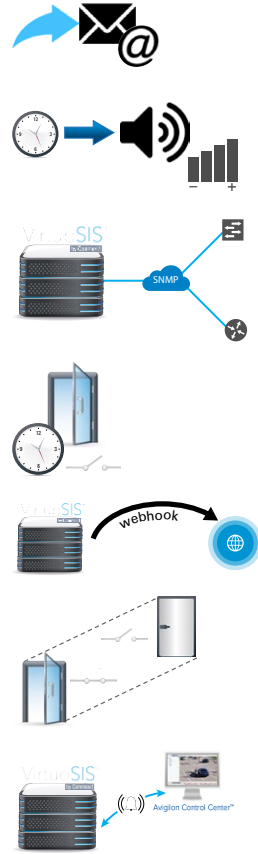
ComPLC comes with its own easy-to-use WYSIWYG configuration environment. All elements can be placed and arranged by simply dragging and dropping, which makes configuring even complex logic signal controls a breeze, including for operators with only a basic technical understanding.

Although it is very easy to use and learn, ComPLC offers an extremely flexible set of control elements. This gives operators the freedom to cover virtually any control scenario and fine-tune their control sequences to their every need – all without the need for special software.

# Application examples

In the following, you will find some interesting examples that leverage the power of ComPLC (e.g. the ability to group our IP speakers into different groups for targeted announcements):

- **Automatic sending of emails** in case of specific Intercom system events (e.g. if a device or connection fails).
- **Automatic time-scheduled volume adjustment** for Intercom stations and loudspeakers (e.g. high volume during the day, low volume overnight).
- **Monitoring of third-party equipment via SNMP** (e.g. automatically texting IT staff or showing a message at the control desk in case of a router failure).
- **Time-controlled event sequences** involving any combination of devices (e.g. door opens in the morning and closes in the evening; a building alarm is armed automatically one minute after locking the main entrance door).
- **Webhooks** to carry out different actions on third-party systems via HTTP.
- **Configuring airlocks for access controlled doors**, as used in banks or high-security areas (see example below).
- **Sending and receiving of alarms to/from an Avigilon ACC System.**

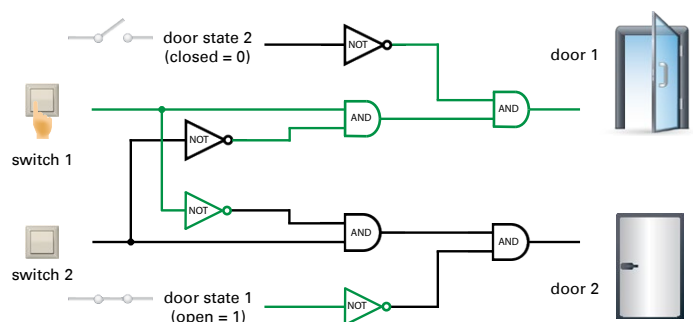
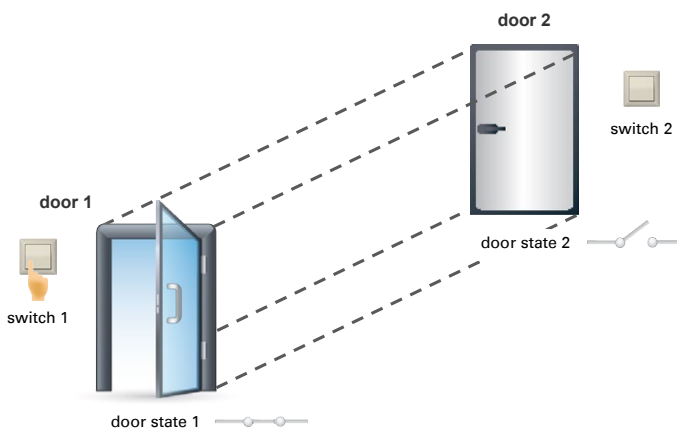


## Example of an airlock

The following example shows how easily logic control sequences like airlocks for access-controlled doors can be configured in ComPLC.

In this specific application, two rooms are separated by a corridor which is secured by two controllable doors. Both doors together form an airlock to prevent direct access (e.g. for pressure compensation).

Both doors cannot be opened at the same time. By pressing its door opener switch, a door can be opened only when the other door has been closed. As soon as the door opener switch is released, the respective door closes. Once this door is closed, the other door can be opened by pressing its door opener switch.



# ComPLC 4.3

## Technical specifications

### Installation

ComPLC can be installed on a variety of Intercom Servers:

- S3, S6 or VirtuoSIS on a virtual card

### Software requirements

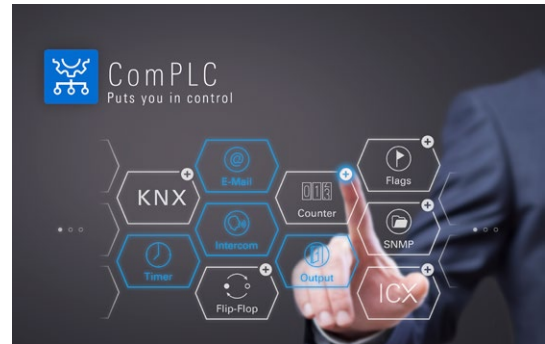
VirtuoSIS	min. VirtuoSIS version 10.0
Configuration software	min. CCT 800 version 10.0
MX Device API	version 2.8

### Supported languages

English
German

### Hardware requirements (configuration system)

RAM	1 GB
CPU	2 GHz
Storage space	300 MB
Operating system	Microsoft® Windows 10 (as of version 1709) Microsoft® Windows Server 2016



### Licences

The following licences enable all ComPLC functions and differ only in the availability of licence-based input and output components:

L-PLC-50*	Licence for 50 licence-based input/output components (stacking of several licences is possible)
L-PLC-200*	Licence for 200 licence-based input/output components (stacking of several licences is possible)
L-PLC-KNX	Licence for use of configuration of one KNX connection in ComPLC (stacking of several licences is possible)
L-PLC-MODBUS	Licence for use of configuration of one Modbus connection in ComPLC (stacking of several licences is possible)
L-PLC-SNMP	Licence for use of the SNMP function in ComPLC
L-PLC-MAIL	Licence for use of the email function in ComPLC
Y-PLC-CS-C	Licence for use of configuration of one SDS connection in ComPLC (stacking of up to 50 licences is possible)
C-L-PLC-AVIGIL	Licence for use of configuration of one Avigilon connection in ComPLC (stacking of up to 50 licences is possible)

\*50 uses of I/O components are included with ComPLC

### Intercom Server licence requirement

One base licence is required per Intercom Server VirtuoSIS when ComPLC is carried out via virtual application card:

L-SIS-PRO5 (min.)	Server base licence
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## Licence-based components

The following components require the listed ComPLC licences so they can be used in a running ComPLC project:

Component	Required component licence	Required additional licences				
	L-PLC-50 * or L-PLC-200 *	L-PLC-SNMP <sup>1)</sup>	L-PLC-MAIL <sup>1)</sup>	L-PLC-KNX <sup>2)</sup>	L-PLC-MODBUS <sup>3)</sup>	C-L-PLC-AVIGIL <sup>4)</sup>
<b>Category: Intercom</b>						
Input message	✓					
Output state (inbound)	✓					
ICX message	✓					
Input Simulation	✓					
Output control (outbound)	✓					
ICX command	✓					
SymMX Device						
<b>Category: KNX</b>						
DPT1 Actuator	✓			✓		
Group Trigger	✓			✓		
Numeric Actuator	✓			✓		
Connection Error	✓					
DPT1 Sensor	✓			✓		
Write Group	✓			✓		
<b>Category: Modbus Master</b>						
Input (FC1)	✓				✓	
Read register (FC3/FC4)	✓				✓	
Output (FC5)	✓				✓	
Write register (FC6)	✓				✓	
Connection Error					✓	
<b>Category: SNMP components</b>						
SNMP Get	✓	✓				
SNMP Trap	✓	✓				
<b>Category: Web components</b>						
Webhook (inbound)	✓					
Webhook (outbound)	✓					
HTTP Get	✓					
<b>Category: Avigilon</b>						
Avigilon Alarm (inbound)	✓					✓
Avigilon Alarm (outbound)	✓					✓
Connection Error						✓
<b>Category: Misc</b>						
Clock generator						
ClockTimer	✓					
e-mail	✓		✓			
Comment						
Wake on LAN	✓					

\*50 uses of I/O components are included with ComPLC

<sup>1)</sup> One licence per ComPLC system required

<sup>2)</sup> One licence per KNX connection required

<sup>3)</sup> One licence per Modbus connection required

<sup>4)</sup> One licence per Avigilon Control Center connection required

## Quality tested. Reliable. Smart.

COMMEND products are developed and manufactured by Commend International in Salzburg, Austria.

The development and manufacturing processes are certified in accordance with **EN ISO 9001:2015**.



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## A strong worldwide network

COMMEND is represented all over the world by local Commend Partners and helps to improve security and communication with tailored Intercom solutions.

[www.commend.com](http://www.commend.com)