

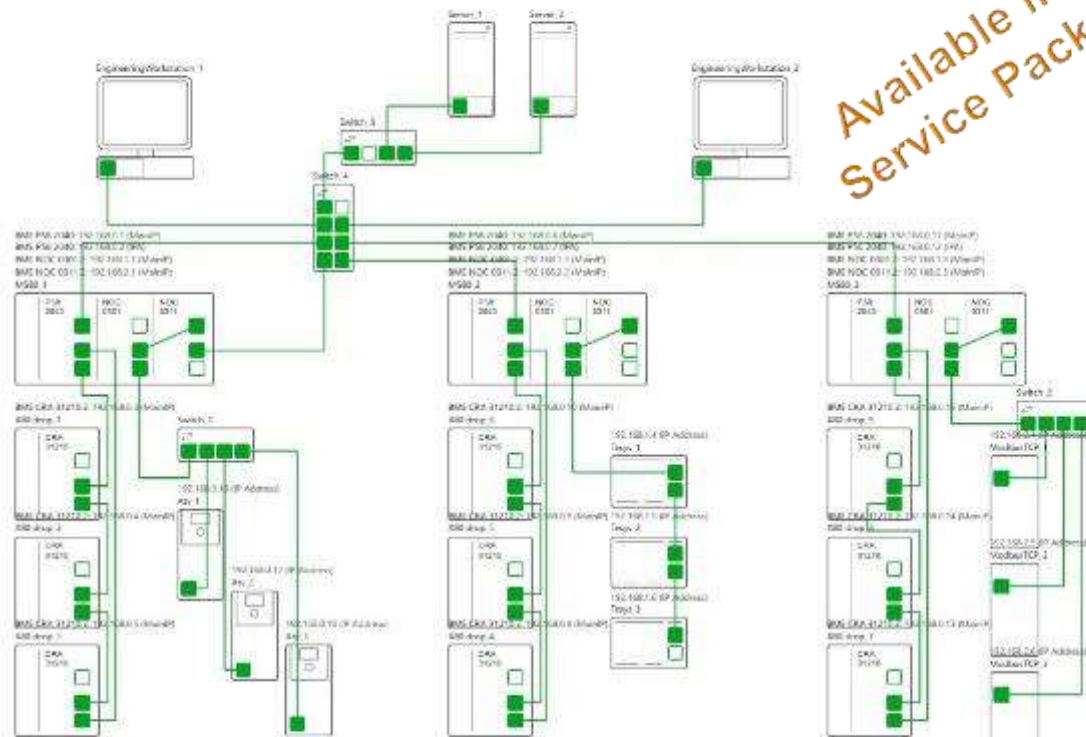


# EcoStruxure Control Expert V15

EcoStruxure Control Expert with Topology Manager



Logical Network / Device	IP Address
Project System_1	
Topology	
Standalone_Controller_1	ModbusTCP_3 192.168.2.6
Standalone_Controller_2	ModbusTCP_2 102.168.2.5
Standalone_Controller_3	ModbusTCP_1 102.168.2.4
M580_3	M580_3/BME XBP 0800/BME N... 102.168.7.3
BIO Bus	M580_3/BME XBP 0800/BME N... 192.168.2.2
Switch_1	M500_1/BME XBP 0800/BME N... 192.168.2.1
Atv_1	
Atv_2	Tsys_3 192.168.1.6
Atv_3	Tsys_2 192.168.1.5
Tsys_1	Tsys_1 102.168.1.4
Tsys_2	M580_3/BME XBP 0800/BME N... 192.168.1.3
Tsys_3	M580_3/BME XBP 0800/BME N... 192.168.1.2
ModbusTCP_1	M500_1/BME XBP 0800/BME N... 192.168.1.1
Switch_2	
ModbusTCP_2	X80 drop_3/BME XBP 0800/BME C... 192.168.0.13
ModbusTCP_3	X80 drop_8/BME XBP 0800/BME C... 102.168.0.14
EngineeringWorkstation_1	X80 drop_7/BME XBP 0800/BME C... 102.168.0.13
EngineeringWorkstation_2	X80 drop_6/BME XBP 0800/BME C... 102.168.0.10
Server_1	X80 drop_5/BME XBP 0800/BME C... 192.168.0.9
Server_2	X80 drop_4/BME XBP 0800/BME C... 192.168.0.8
Switch_3	X80 drop_3/BME XBP 0800/BME C... 192.168.0.5
Switch_4	X80 drop_2/BME XBP 0800/BME C... 192.168.0.4
Logical Networks	X80 drop_1/BME XBP 0800/BME C... 192.168.0.3
Default Network	M580_3/BME XBP 0800/BME P58 2040 192.168.0.11
Logical Network_1	M580_3/BME XBP 0800/BME P58 2040 192.168.0.12
Logical Network_2	M580_3/BME XBP 0800/BME P58 2040 192.168.0.6
Physical Views	M580_3/BME XBP 0800/BME P58 2040 192.168.0.7
Projects	M580_1/BME XBP 0800/BME P58 2040 192.168.0.1



Available in  
Service Pack 1

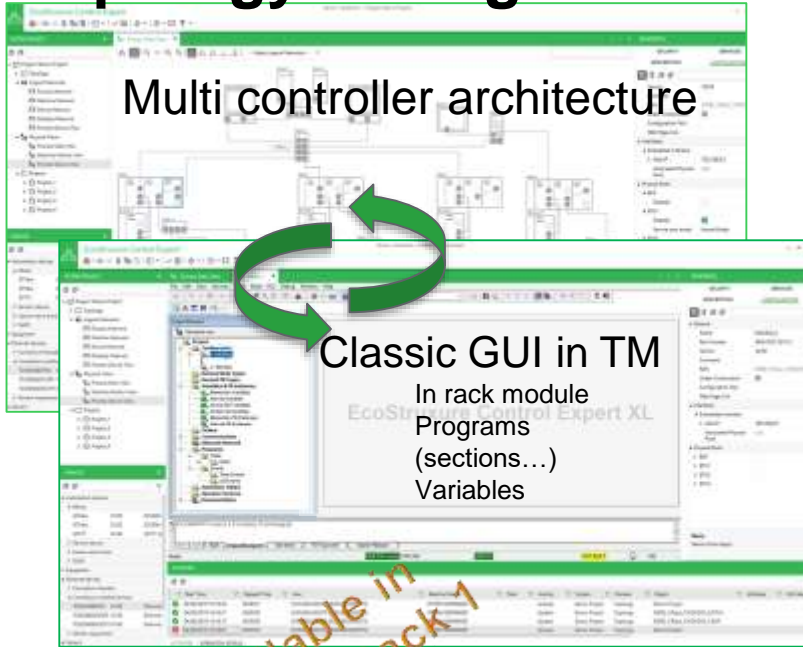




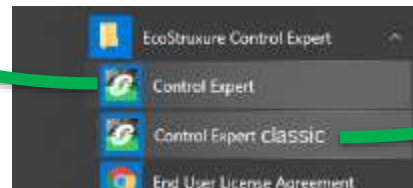
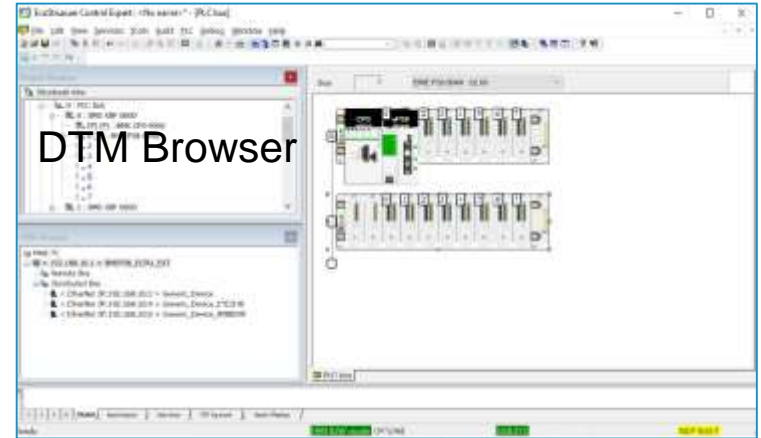
# Topology Manager and Classic Mode



## Topology Manager Mode



## Classic Mode



# Control Expert V15 : a simplified automation lifecycle



## Customer Challenge

- Manage multi-PAC systems
- Need **central repository** to manage project files
- **need visibility** of system architecture or network consistency
- optimize the **availability of the system** during operation

## Our Value Proposition

*Simplicity to design and deploy automation architecture*

*Efficiency to maintain the system*

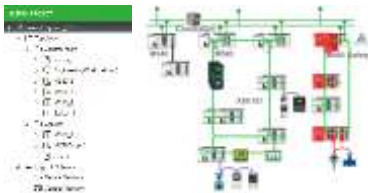
Smart Design & Engineering

Workforce Empowerment

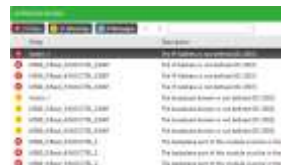
Available in  
Service Pack 1

## Our Solution

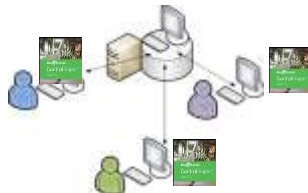
### Automation architecture



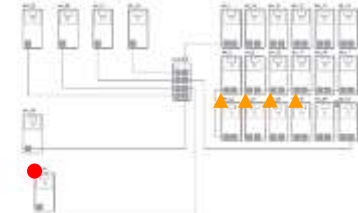
### Network consistency



### Client/Server



### system diagnostics



## Technical highlights

- A common environment to **design and deploy** the entire **automation architecture** : multi-PAC systems including various types of automation assets
- Easy to use **graphical/tree** presentation
- **Network consistency check**
- Client-server model with **central repository**
- Out of box **system diagnostic**

# PAC to Pac Communication

## Customer Challenge

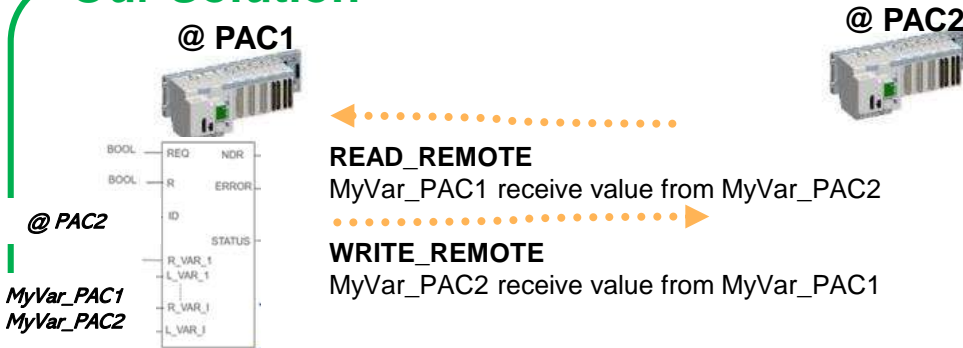
*Transferring data between controllers must be fast to configure and easy to update*

## Our Value Proposition

*A flexible, easy to configure and simulate PAC to PAC communication, reducing time to market.*

Smart Design & Engineering

## Our Solution



Local Slave configuration in Topology Manager



## Technical highlights

- Explicit messaging based on 2 new Function Blocks (READ\_REMOTE, WRITE\_REMOTE ) to share any unlocated variable
- Multiple PLC simulator on same computer
- Implicit Messaging : Local Slave are configured in Topology Manager and consistency is checked

# Program easily

## Customer Challenge

*I want to go faster when I develop my program and during commissioning or operation.*

## Our Value Proposition

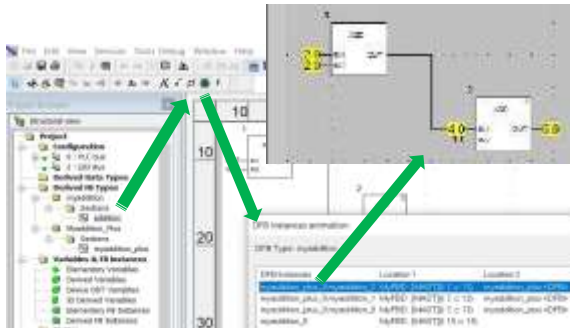
*Increase productivity during engineering, commissioning and operation, reducing time to market.*

Smart Design & Engineering

Workforce Empowerment

## Our Solution

### Search DFB improvements



### Global Name Space

Global Variable definition:

```
Var1: INT ;
```

DFB1 definition

```
Priv1: INT
```

```
DFB Section:
```

```
Priv1 := Project.var1
```

### Technical highlights

- improve Search down to all instances in Nested DFBs
- Global Name Space for flexibility in design

# A step forward to improved cybersecurity

## Customer Challenge

*I need to protect the data in my controller against any unauthorized access*

## Our Value Proposition

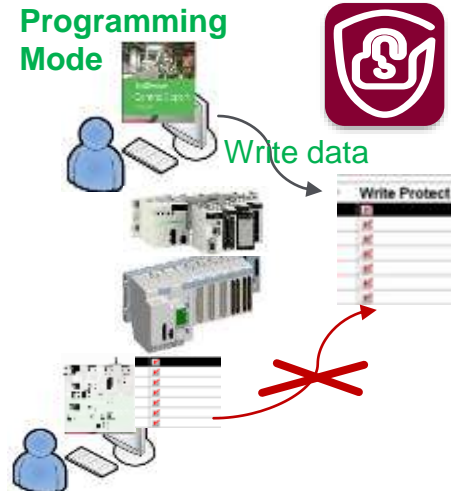
*A configurable Data Memory Protect*

Cybersecurity

## Our Solution



### Programming Mode



### Technical highlights

- On M580 and M340, Data Memory Protect easily configurable for each data

# Traceability and user management

## Customer Challenge

*Trace changes in program.  
Manage easily multiple users rights*

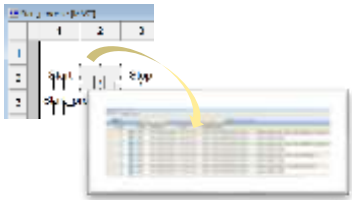
## Our Value Proposition

*A reliable and detailed log  
Easy to configure Access Rights*

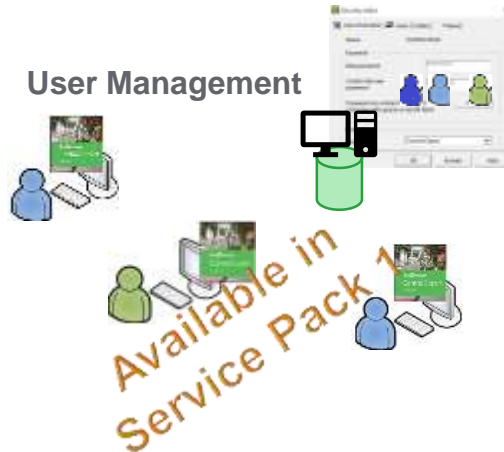
Cybersecurity

## Our Solution

### Syslog improvement



### User Management



### Technical highlights

- Log all updates from LD or FBD Editor
- User right defined centrally with Topology Manager



# Misc. features

## supported Operating Systems:

- Windows 10 64 bits
- Windows 10 Enterprise LTSC
- Windows Server 2019

Virtualization : **VMWare Workstation & vSphere Hypervisor ESXi**

**Modicon MC80** controller is now visible by default.

**BMXERT1604.2** can be used on **M580 HSBY** too

In **Safety** communication, the **NTP Time** synchronization is now improved.

Support **BMENUA V1.1** (with e.g. IPV6 addressing)

# Companions software

**EcoStruxure Automation Device Maintenance 2.0** replace Unity Loader.  
Deploy FW on **multiple controllers and devices** (drives, ...)

EADM 2.0 will be available for free on SE.com  
Unity Loader V14 Sp1 remains available

## **OFS DA V3.63**

- SCADA Access to **variables within nested DFBs**
- Display in SCADA of **forced bits status** (including EBOOL)

Unity DIF V14.0 is not yet updated . (Planned in 2021)

Life Is On

**Schneider**  
Electric