



Software for monitoring, control and
data acquisition



AXON BUILDER 3

SCADA / IHM

Axon Builder is a specialized software for the supervision, control and data acquisition (SCADA / HMI) for the Electric power industry. Designed for fast and intuitive configuration that reduces execution times throughout the project lifecycle. It is based on a client-server architecture that supports deployment in environments ranging from a single station to multi-user distributed systems, which makes the solution flexible from small to large scale. It offers interoperability, reliability and secure access to the control and visualization functions of the critical information of your electrical system.

Axon Builder has different specialized modules for the visualization and management of information. It provides the ability to define custom data manipulation rules based on predefined or programmable logics which allow you to customize or adapt the solution to specific needs.

Features

- Multiples clients of visualization and control
- Management of control zones for responsibility areas
- Update screens without supervisions and control process interruptions
- Gateway or concentrator of data for several protocols
- Hot-StandBy redundancy
- Logics for custom of graphics and data
- Historical and real time data (Alarms, events and trends).
- Reports and notifications programables
- Wizard to speed up rename of signals and create screens
- View and force of signals and commands

BENEFITS OF AXON BUILDER 3



01

It's not mandatory to total reset of the system for updates or changes on setup

02

Wizard for setup. Help to save time and reduce errors

03

Gateway functions. It saves money on the process of communication

04

Reliable and scalable architecture: support until 200.000 signal

05

Customization: Open library for building of graphics elements

06

Facilities of configuration: Management of animations by expressions (language of micro languages)

07

Navegability: Several types of filters od alarms and events

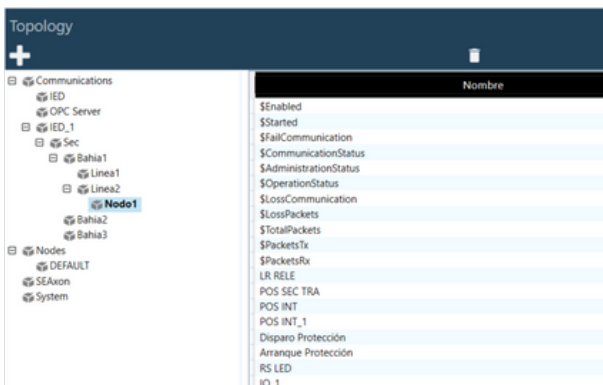
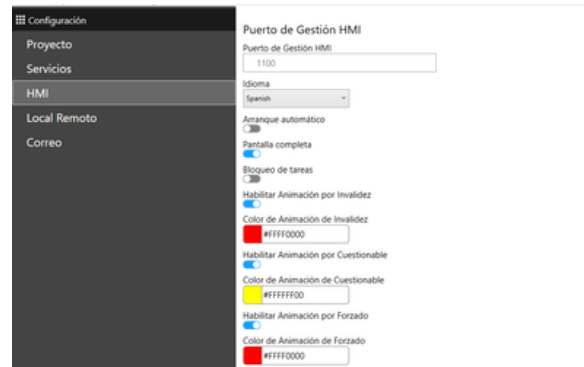
08

Automatic recollect and view of COMTRADE files (IEC 61850).

CHARACTERISTICS

01. Configuration

It allows to define general parameters of the project on the server and HMI level, for instance, management of communication ports and activate properties such as Local/Remote, Web Client or general animations, among others.

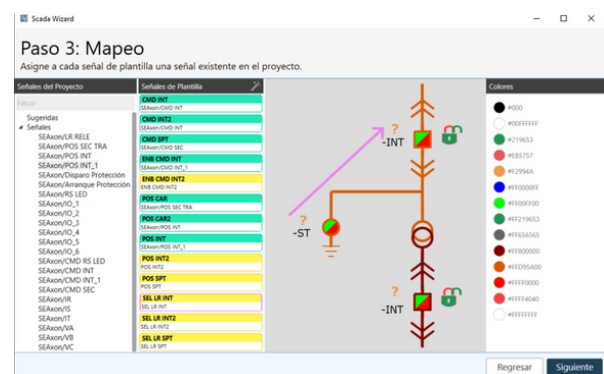


02. Topologies

Provides the option to create a hierarchical structure of the system that allows to have a better organization of project information. These structures enhance the use of functions such as the use of prefixes in scenarios with typical bays. Also facilitates the renaming of signal standards.

03. Wizard

Allows the automatic creation of screens. It has a customizable and extensible gallery of templates for bays, measurements and interlocks. It offers the possibility of mapping signals manually or automatically and applicate its to the animations and actions defined in the template used.



Logics module facilitates the identification and creation of internal signals to know the status of the communication or generate animations in an HMI project. Also, it enables operations between signals from the implementation of the functions or scripts.



Simulink Bay Project - Asset Builder 3.0

Inicio Configuración Mantenimiento Ayuda

Deploy

Ejemplo 01

Nombre
DEFAULT

IP
127.0.0.1

Puerto
5500

Servicios

- ☒ Comunicaciones
- ☒ Historicos
- ☒ HMI (Human-Machine Interface)
- ☒ Scada
- ☒ Demilitarized Zone

Topologia
Proden/DEFAULT

The diagnostic module displays an interface to view the communication status of each device created in the project. In addition, it allows to identify the latest update, the driver it used to run it and the license of protocol communication.

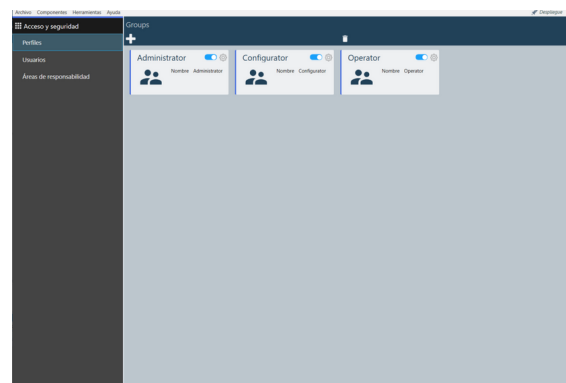
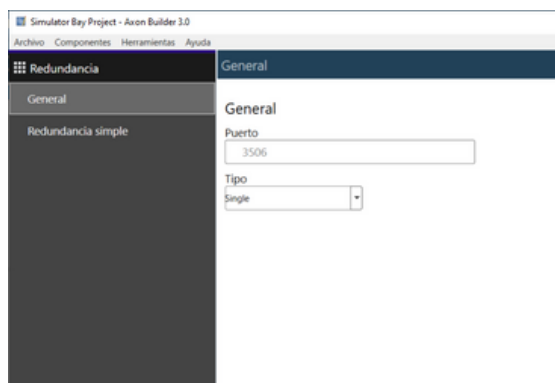


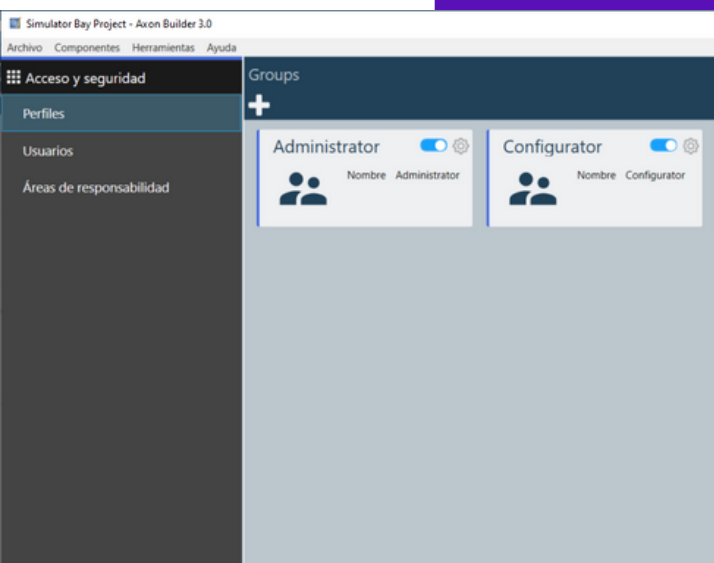
07. Redundancy

It is about a Hot-StandBy data redundancy, where there is an active instance and another backup instance. The active instance will be establish the communication with the IEDs, while the backup instance will establish communication with the IEDs and will take control in case the active instance presents a fault. It must take account that in this redundancy model the databases are independent, that is how they must be permanently synchronized with each other.

08. Reports

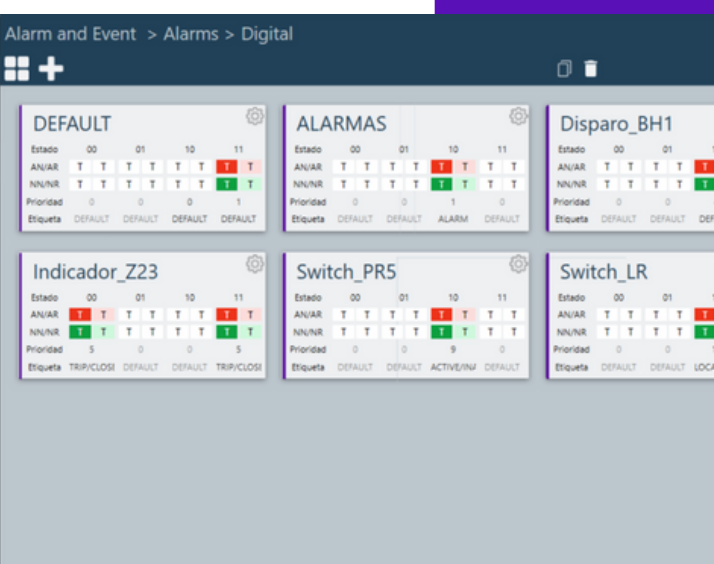
The reports module is for important signals in the project, whose behavior must be recorded in a document in order to be viewed and analyzed later. In the same way, the signals assigned in this module have to come from any input devices that have been created and their operation depends on the configurations made on each of them.





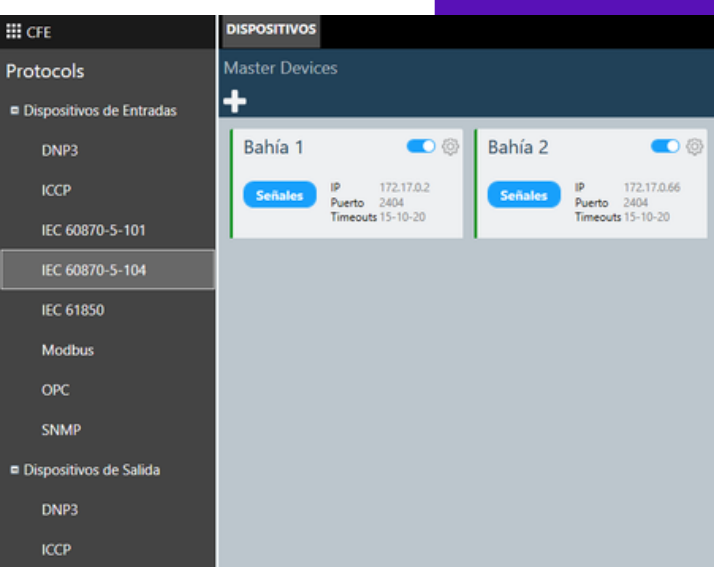
Access and security

It allows to control the access and has levels of security for the users of the system. It eases the definition of privileges in the operation and administration roles. In addition, it supports the management by areas or zones of responsibility for the operation.



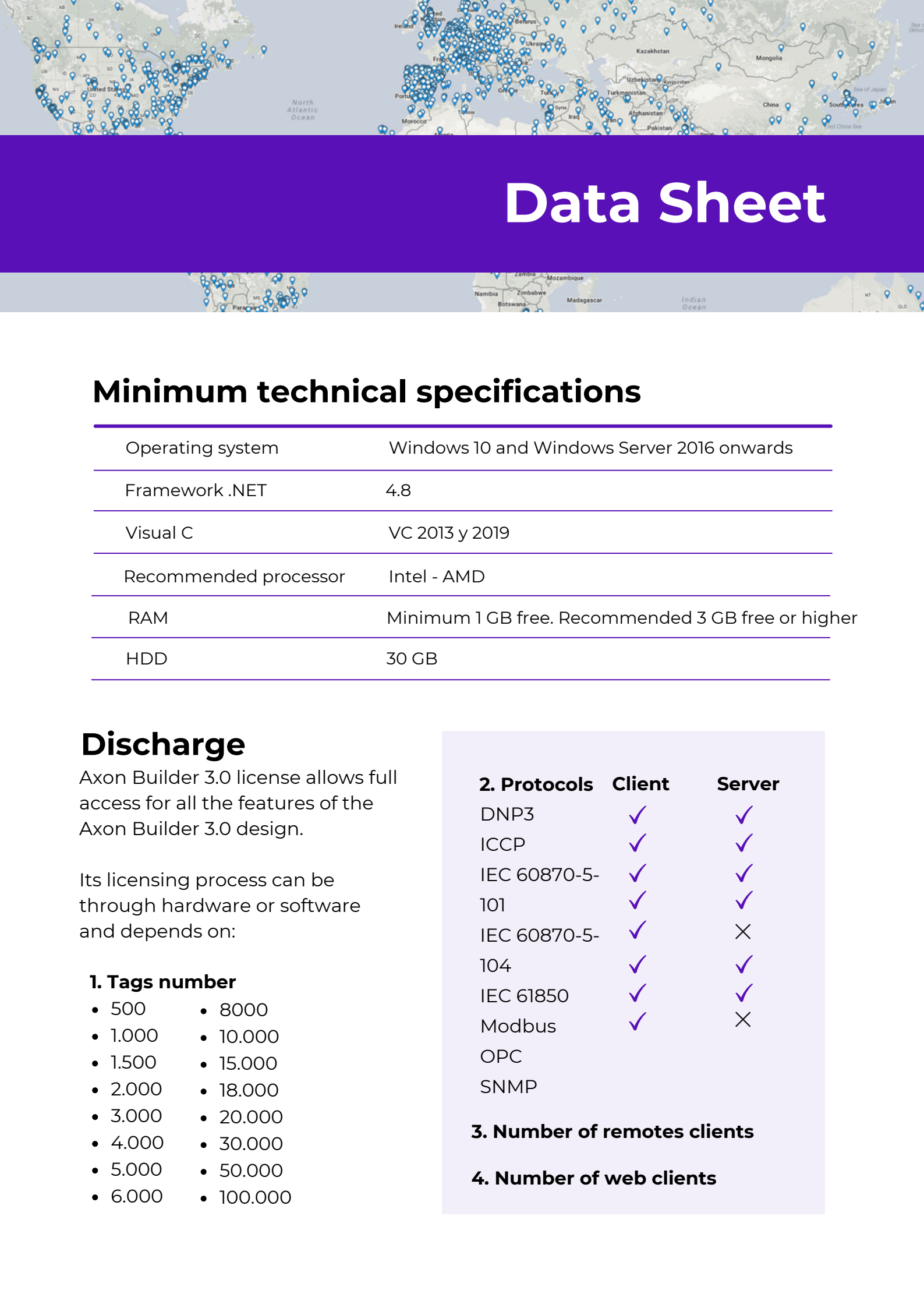
Alarms and events

It defines the properties of alarms or events. It creates and links formats and other management parameters. In addition, it is possible to create different types of events or alarms both for the states of digital sources and based on thresholds of power supplies.



Communications

It supports a wide range of communication protocols to link devices, both at the level of Masters and Servers. Also, It is possible to adjust rulers of normalization and historical persistence to the analog signals.



Data Sheet

Minimum technical specifications

Operating system	Windows 10 and Windows Server 2016 onwards
Framework .NET	4.8
Visual C	VC 2013 y 2019
Recommended processor	Intel - AMD
RAM	Minimum 1 GB free. Recommended 3 GB free or higher
HDD	30 GB

Discharge

Axon Builder 3.0 license allows full access for all the features of the Axon Builder 3.0 design.

Its licensing process can be through hardware or software and depends on:

1. Tags number

- 500
- 1.000
- 1.500
- 2.000
- 3.000
- 4.000
- 5.000
- 6.000
- 8000
- 10.000
- 15.000
- 18.000
- 20.000
- 30.000
- 50.000
- 100.000

2. Protocols	Client	Server
DNP3	✓	✓
ICCP	✓	✓
IEC 60870-5-101	✓	✓
IEC 60870-5-104	✓	✗
IEC 61850	✓	✓
Modbus	✓	✗
OPC		
SNMP		

3. Number of remotes clients

4. Number of web clients

BENEFITS

Axon Group

- 1** Immediately and unlimited support
- 2** Free updates versions
- 3** Personalized service
- 4** Fast and easy configuration
- 5** Save cost in implementation projects
- 6** Delivery time: One week



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