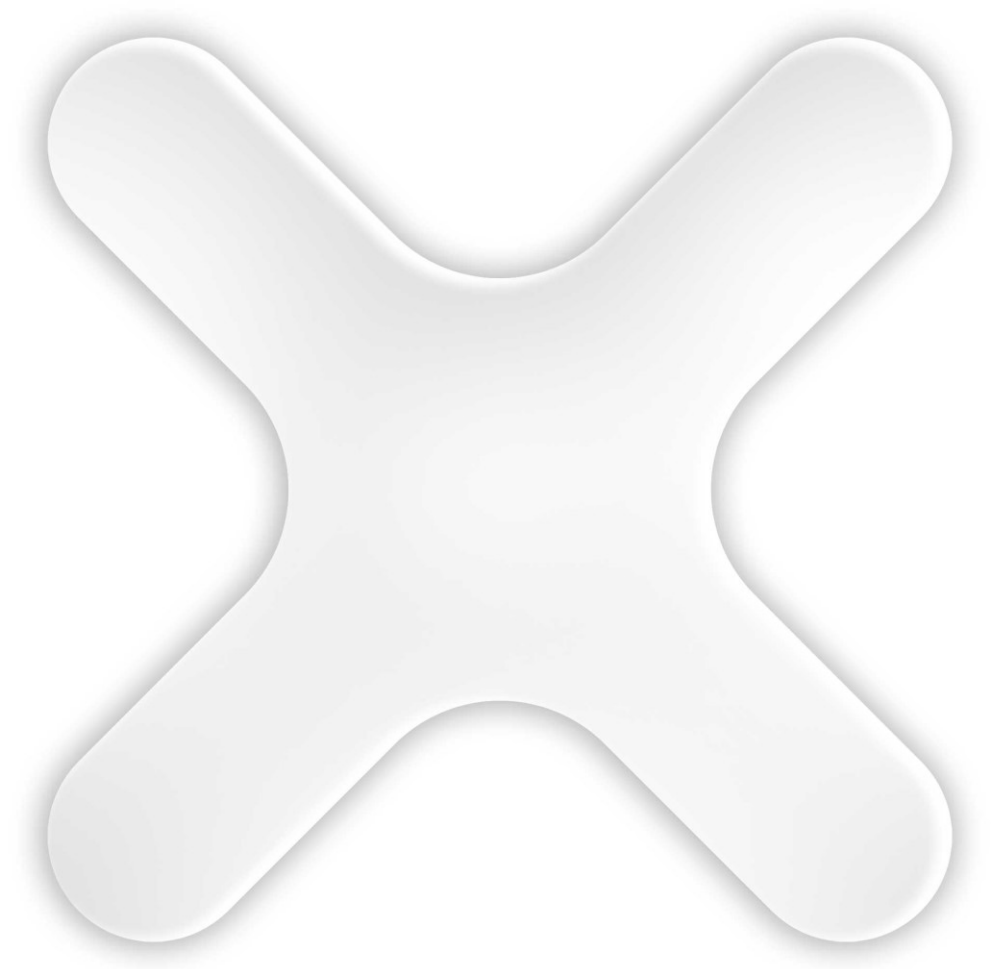


JMobile Developer Day

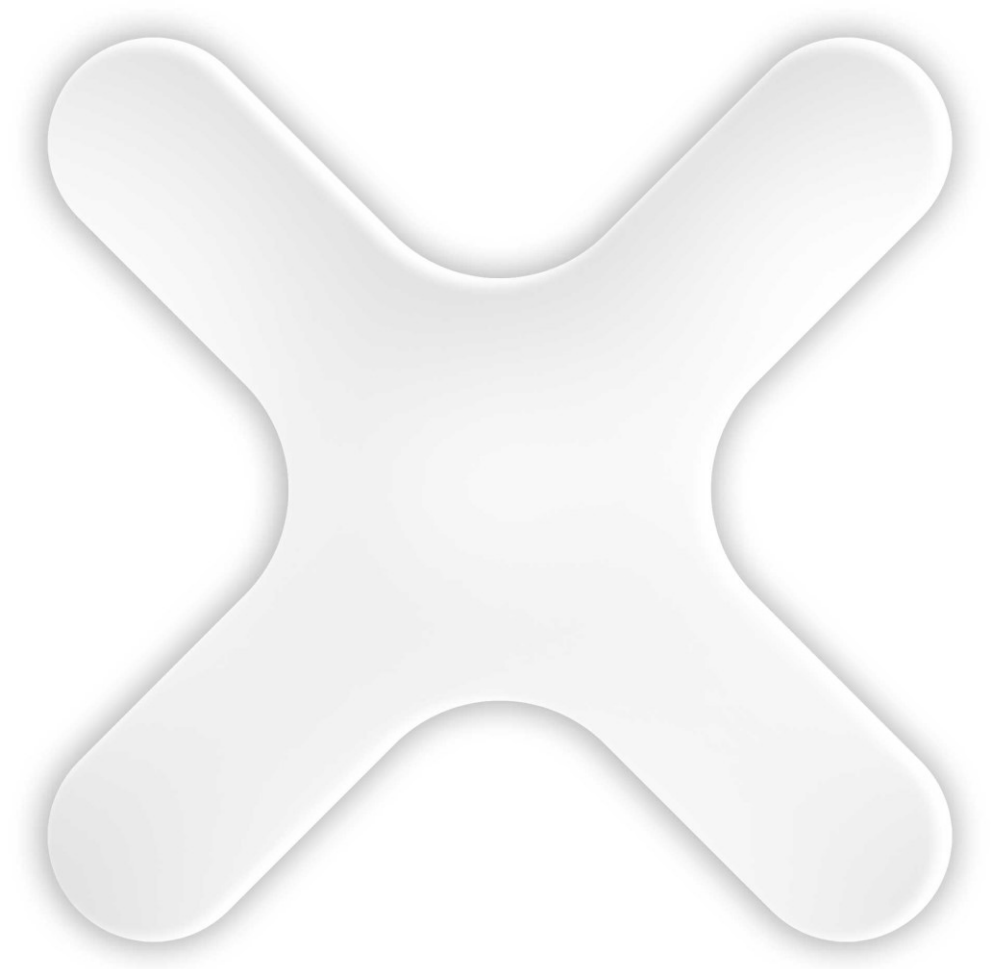


JMobile 4.5

Major features overview

JMobile[®]

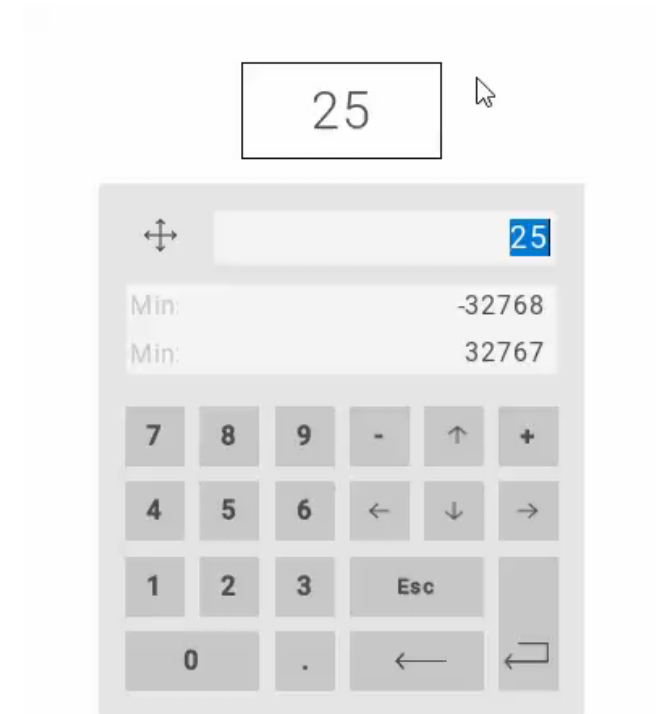
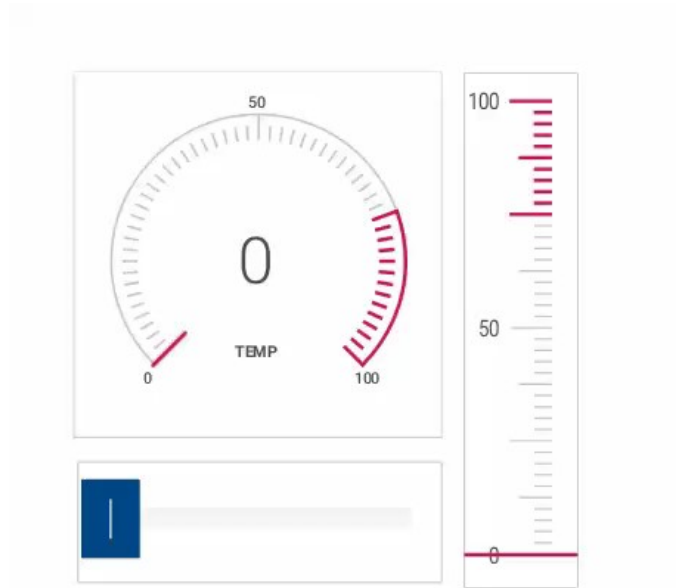
EXOR



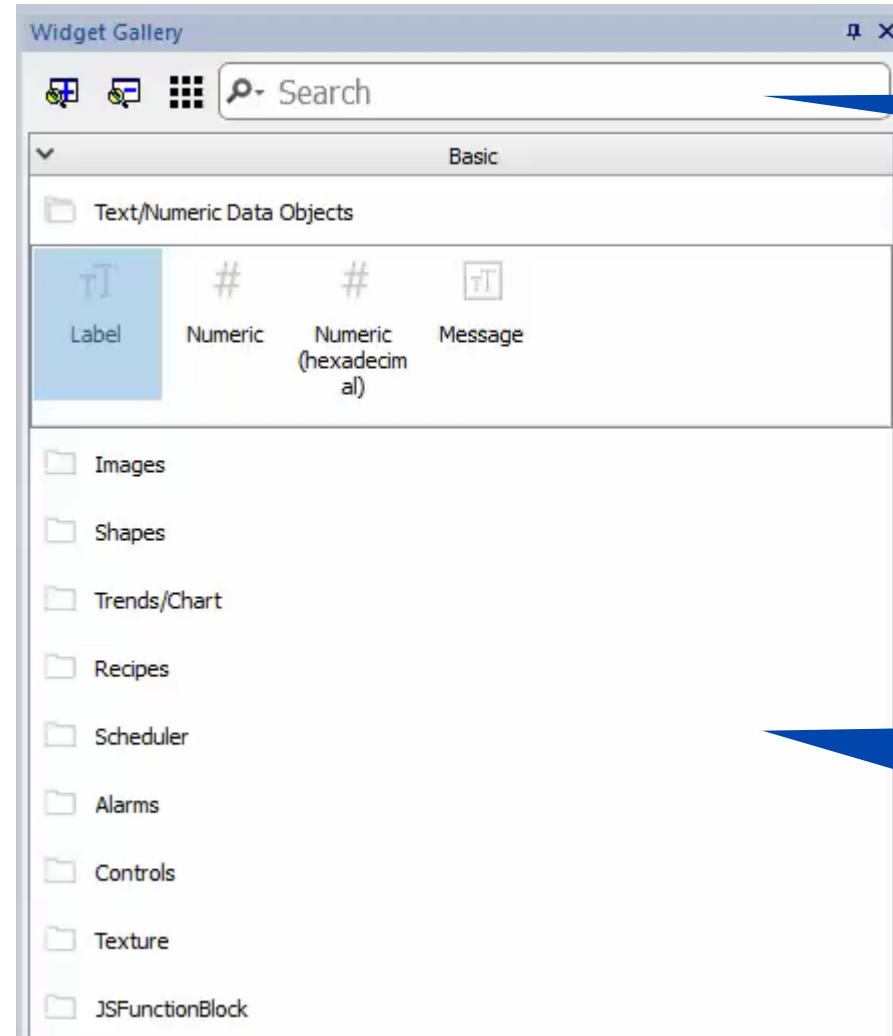
New features

Expanding software capabilities

Default flat modern style for widgets



Widget Gallery redesign



Quick search

Filter results and mouseover preview

Edit user widget info in gallery

Customize text,
icon and tooltip

The screenshot shows a motor widget in a gallery. The widget is a light blue rectangle with a motor icon in the center. It has three input ports on the left labeled IN1, IN2, and IN3, and three output ports on the right labeled OUT1, OUT2, and OUT3. Each port has a small box containing the number '99999'. The word 'Motor' is written above the icon. An 'Edit gallery widget details' dialog box is open in the foreground, showing the following fields:

- Multilanguage: en-US (dropdown), Tahoma (dropdown)
- Widget ID: GroupWgt3
- Icon: Images\GalleryIcons\motorICO.png (with a file selection button and a red 'x' icon)
- Display Text: Motor
- Tooltip: This is my motor

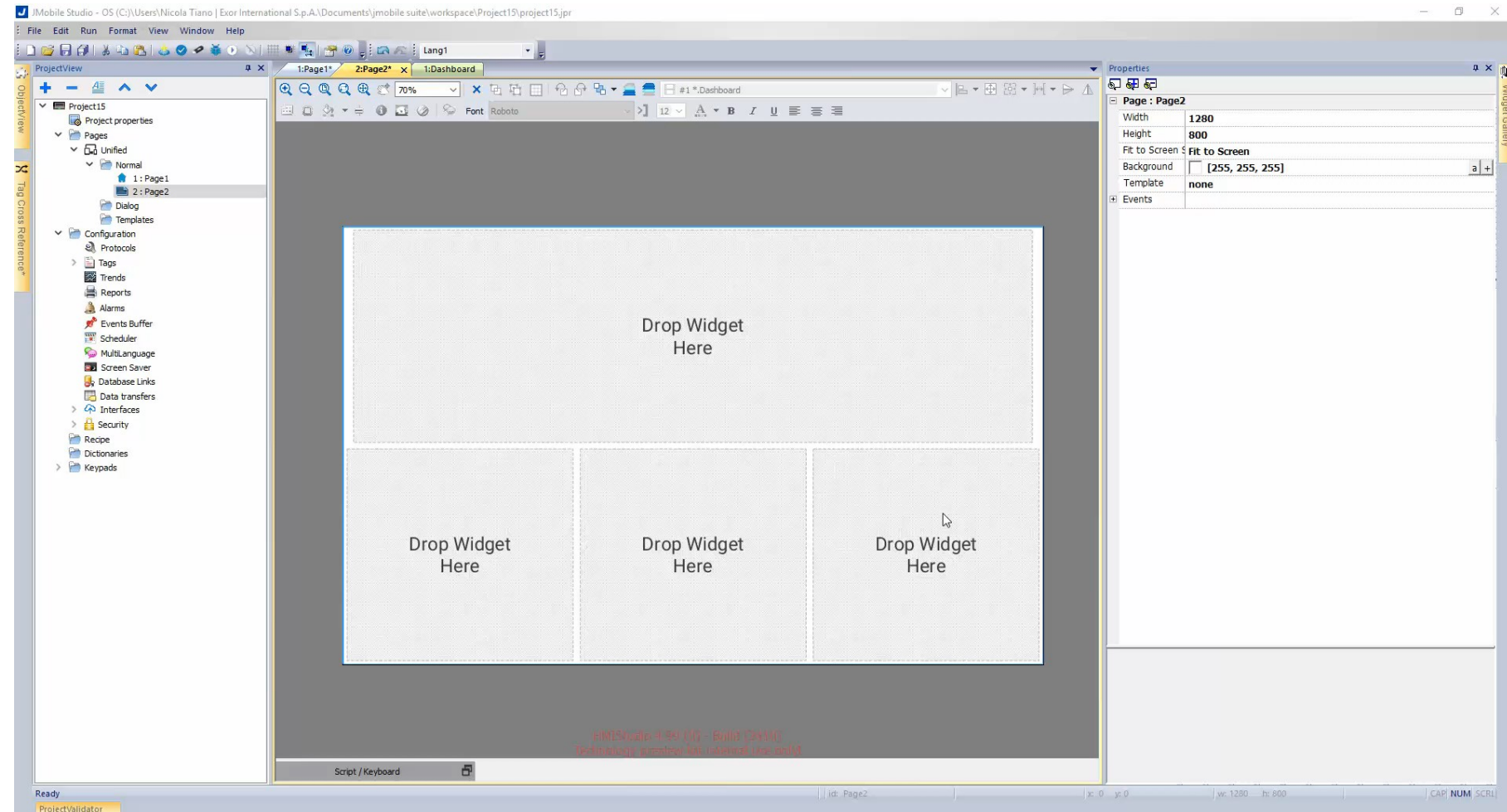
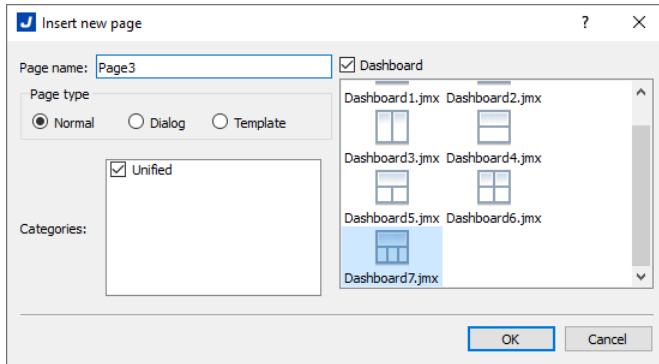
Buttons for 'OK' and 'Cancel' are at the bottom right of the dialog.

The screenshot shows a 'Properties' window for a widget in a gallery. The window has a title bar with 'Properties' and a close button. The main content area is divided into two sections: 'Page : Page1' and 'Events'. The 'Page : Page1' section contains the following properties:

Width	1024
Height	600
Fit to Screen Size	Fit to Screen
Background	<input type="checkbox"/> [255, 255, 255] a +
Template	none

The 'Events' section is currently empty. On the right side of the window, there is a vertical tab labeled 'Widget Gallery'.

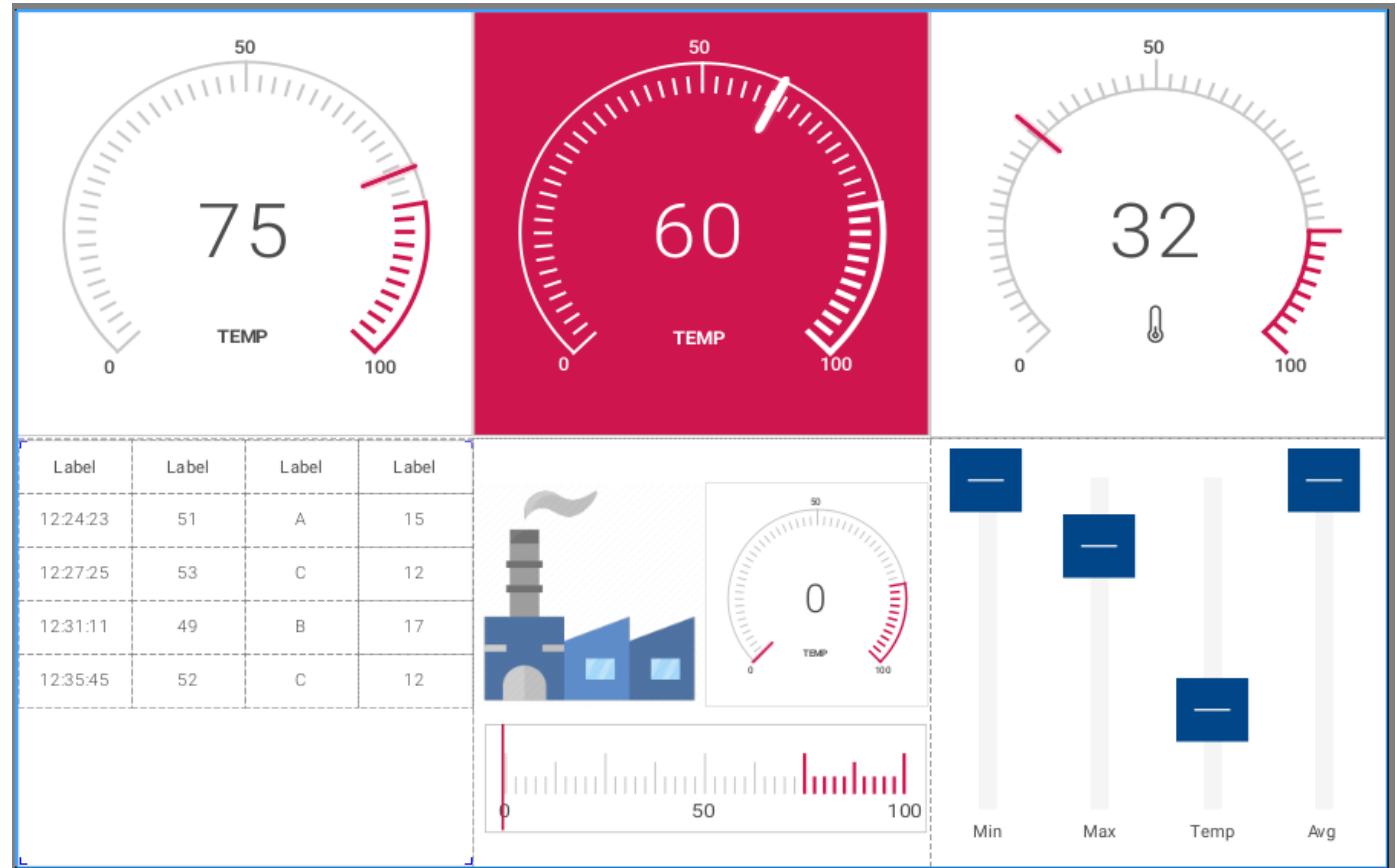
Dashboard pages



Responsive Design

Plant overview

Web ready



The screenshot shows the EXOR HMI Simulator interface. The main window, titled 'HMI Simulator', displays a dashboard with several widgets:

- Top row: Three gauges. The first gauge shows a value of 50. The second gauge, on a red background, shows a value of 60. The third gauge shows a value of 32.
- Bottom left: A large blue gauge showing a value of 85.
- Bottom middle: A control panel with four sliders labeled 'Min', 'Max', 'Temp', and 'Avg'. Each slider has a blue handle.
- Bottom right: A data visualization area featuring a bar chart and a small gauge showing a value of 5.

On the right side, a 'Properties' panel is visible, showing settings for 'Page : Page1':

Page : Page1	
Id	Page1
Width	1024
Height	768
Fit to Screen	Fit to Screen
Background	[255, 255, 255]
Template	none
Static Optimization	true
Static File Type	png
JavaScript Debug	false
Keyboard	true
Precache	false
Events	

Online Simulator tool

Powerful search tool

Filter view

The screenshot shows the 'Tag Simulation' application window. At the top, there is a search bar and a filter dropdown set to 'Name'. Below this is a table with columns: Name, Type, Value, Prepared Value, WatchList, Protocol, and Simulation. The table lists various tags, with Tag15 highlighted in blue and Tag5 and Tag2 highlighted in green. To the right of the table is a 'Property' panel showing details for Tag15.

Name	Type	Value	Prepared Value	WatchList	Protocol	Simulation
Tag20	short	0		<input type="checkbox"/>	Variables	
Tag11	short	0		<input type="checkbox"/>	Variables	
Tag12	short	0		<input type="checkbox"/>	Variables	
Tag13	short	0		<input type="checkbox"/>	Variables	
Tag14	short	0		<input type="checkbox"/>	Variables	
Tag15	short	0		<input type="checkbox"/>	Variables	
Tag16	short	0		<input type="checkbox"/>	Variables	
Tag17	short	0		<input type="checkbox"/>	Variables	
Tag18	short	0		<input type="checkbox"/>	Variables	
Tag19	short	0		<input type="checkbox"/>	Variables	
Tag1	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag3	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag4	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag5	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag6	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag7	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag8	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag9	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag10	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>
Tag2	unsignedShort			<input type="checkbox"/>	Modbus TCP	<input checked="" type="checkbox"/>

Property	Value
Name	Tag15
Type	short
Value	0
Prepared Value	
WatchList	false
Protocol	Variables
Simulation	

Prepare Values

Watch Tags

Simulates multiple
Tag values

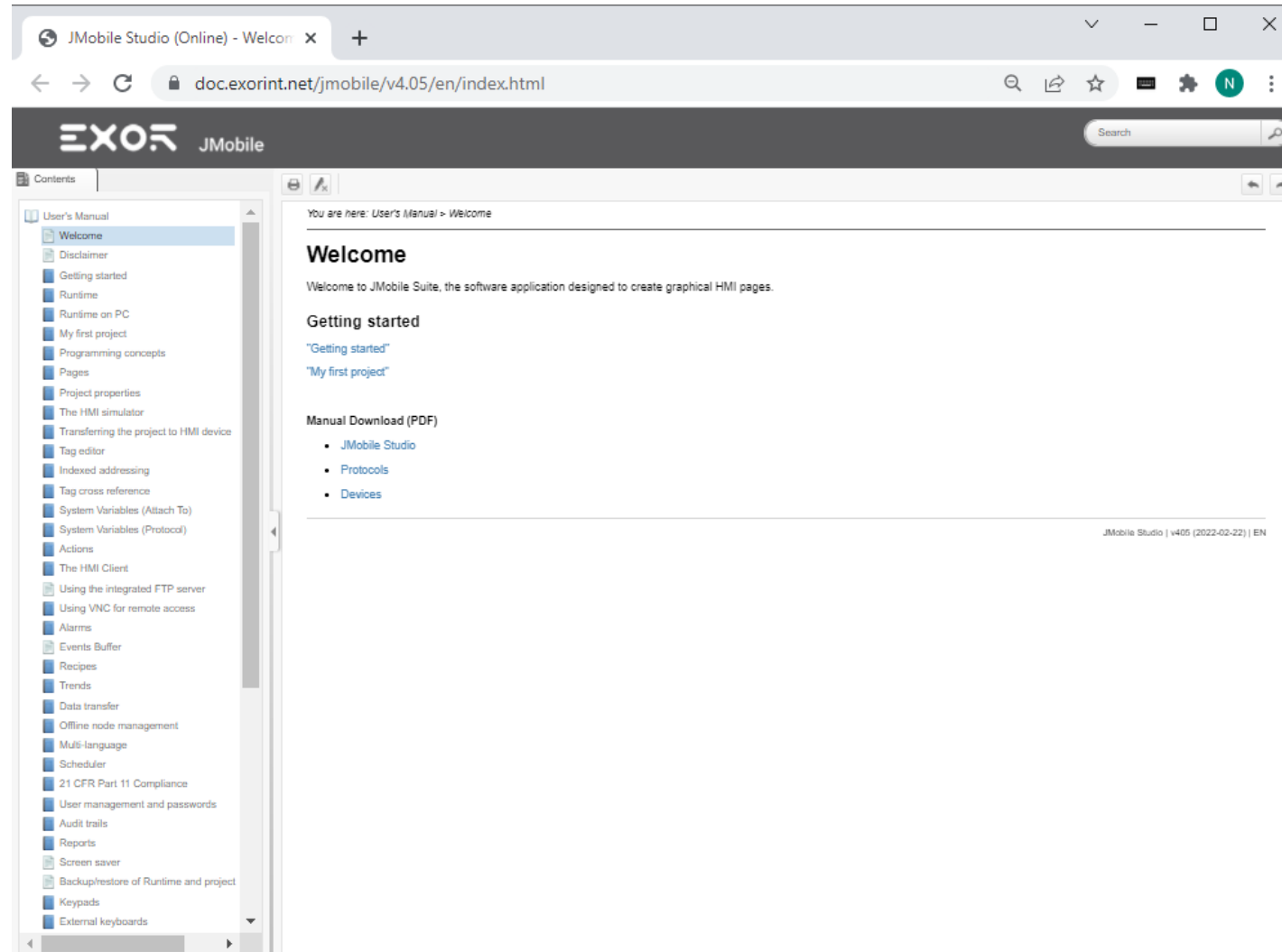
Speeds up
communication
debugging

SAVE TIME





Online help
on web
page from
Studio



Enhanced
search engine

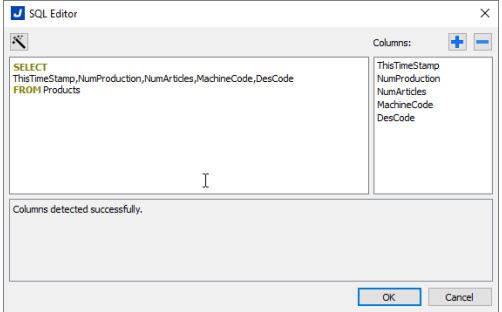
Connectivity

Interface to data storages



Native support for connecting SQL Databases

Programmer Utilities

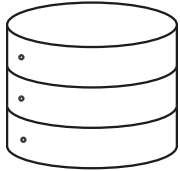
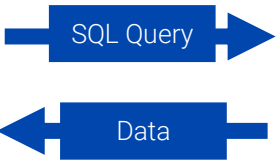


Timestamp	Num Boxes	Type	Num Hours
12:24:23	51	A	15
12:27:25	53	C	12
12:31:11	49	B	17
12:35:45	52	C	12

Web support

Timestamp	Num Boxes	Type	Num Hours
12:24:23	51	A	15
12:27:25	53	C	12
12:31:11	49	B	17
12:35:45	52	C	12

Table View



Full Technology support

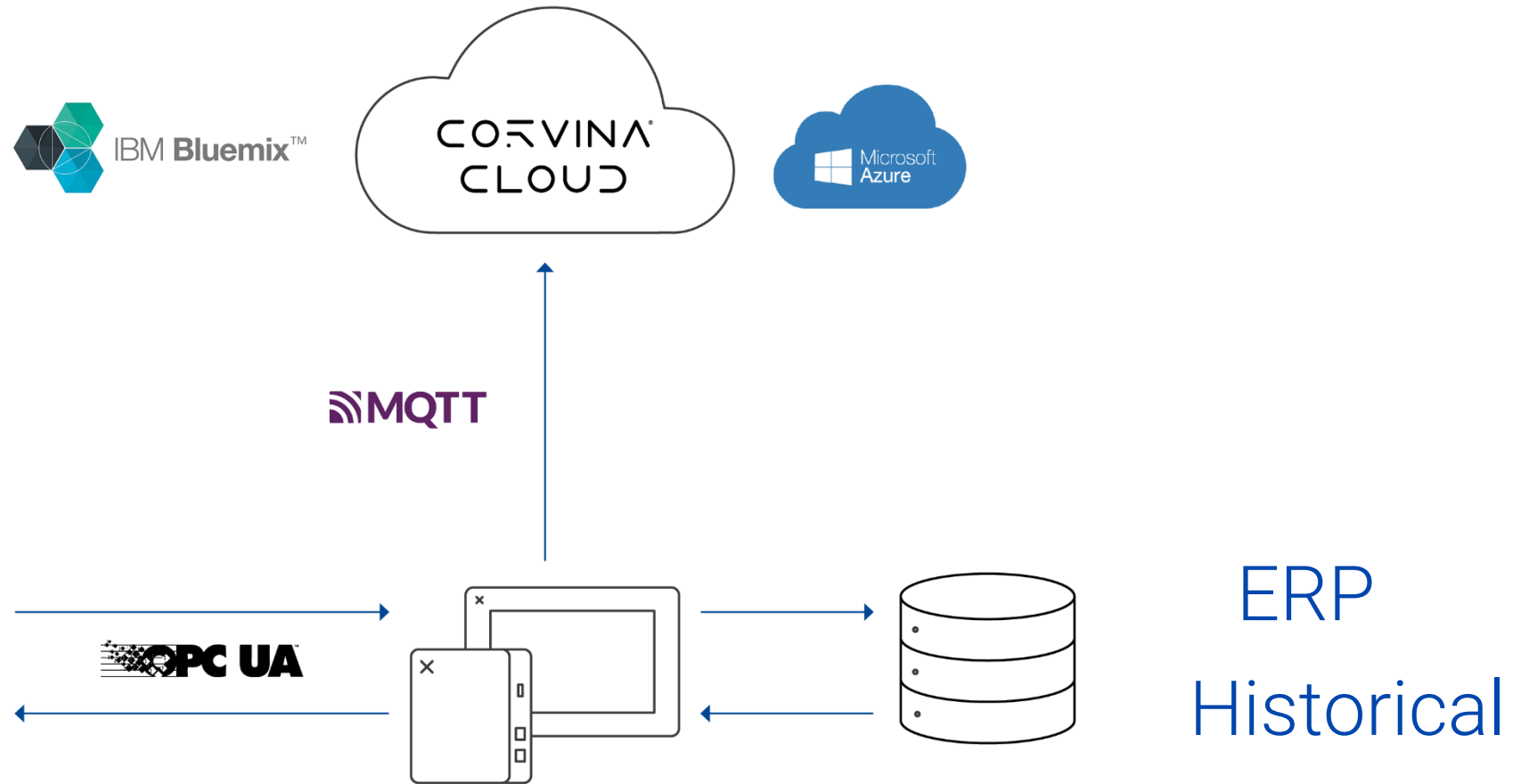
Native support for connecting SQL Databases

The screenshot shows the 'Database Links' configuration window in the EXOR software. The window is divided into three main sections:

- Left Panel (ProjectView):** A tree view showing the project structure. The 'Database Links' folder is highlighted.
- Center Panel:** A table with columns 'Name' and 'Type'. A single row is visible: 'Name 1 ODBC'.
- Right Panel:** A table of properties for the selected database link. The 'Type' property is highlighted, and a blue callout box points to it with the text 'Choose connector type'.

Property	Value
Name	Name 1
Type	ODBC
Connection Type	DSN
DSN	
ODBC Database	MSSQL Server
Username	
Password	
Description	

Production Data



Added MQTT Tag interface

MQTT Interface

Features

Enable MQTT interface

Enable alarms

Alarm groups: None

Tags configuration

Default push policy: OnChange Manage push policies

	Enable	Tag Group	QoS	Retain	Persistence	Policy
1	<input type="checkbox"/>	All	0	<input type="checkbox"/>	<input type="checkbox"/>	

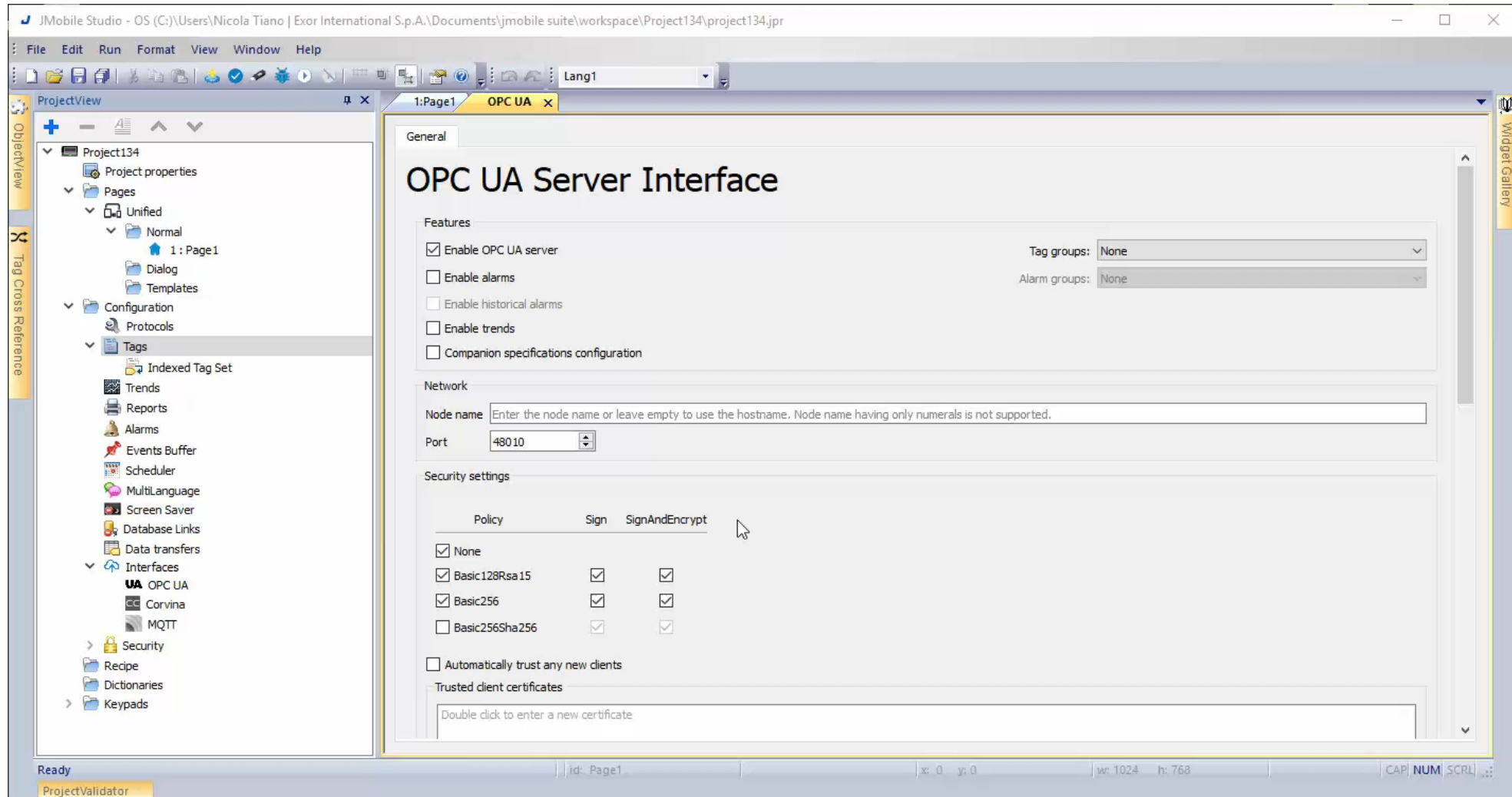
Tag interface

Enable	<input type="text"/>	<input type="text"/>	Status	<input type="text"/>
Last error	<input type="text"/>	<input type="text"/>		
Messages sent	<input type="text"/>	<input type="text"/>	Messages received	<input type="text"/>
Queue length	<input type="text"/>	<input type="text"/>	Queue size	<input type="text"/>

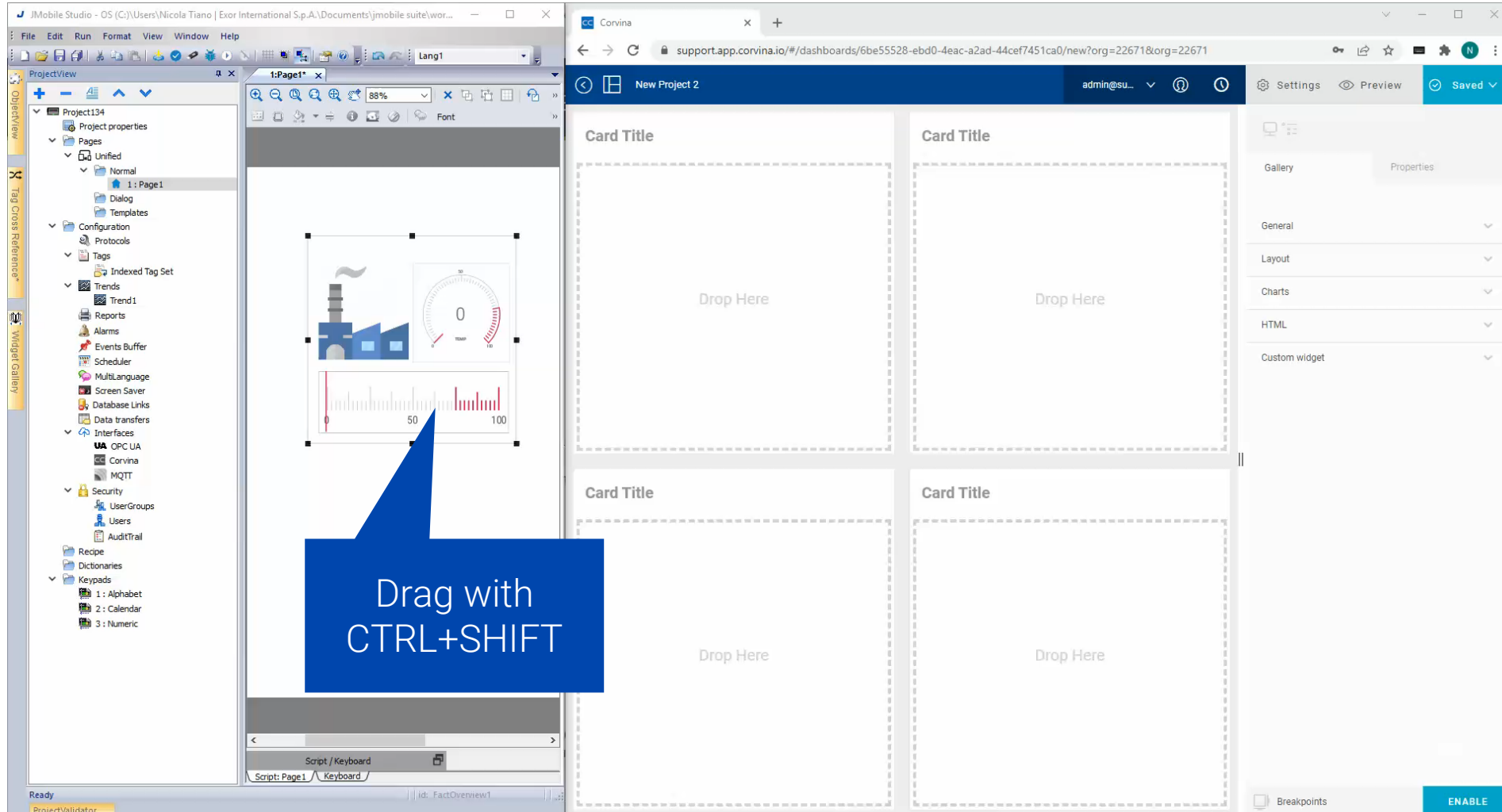
Enable at Runtime

Display status on a Tag

Added Companion Specification to OPC UA Server



Transfer Widget* to Corvina Cloud



* Custom Widget will full inheritance

New widgets

Cover more use cases



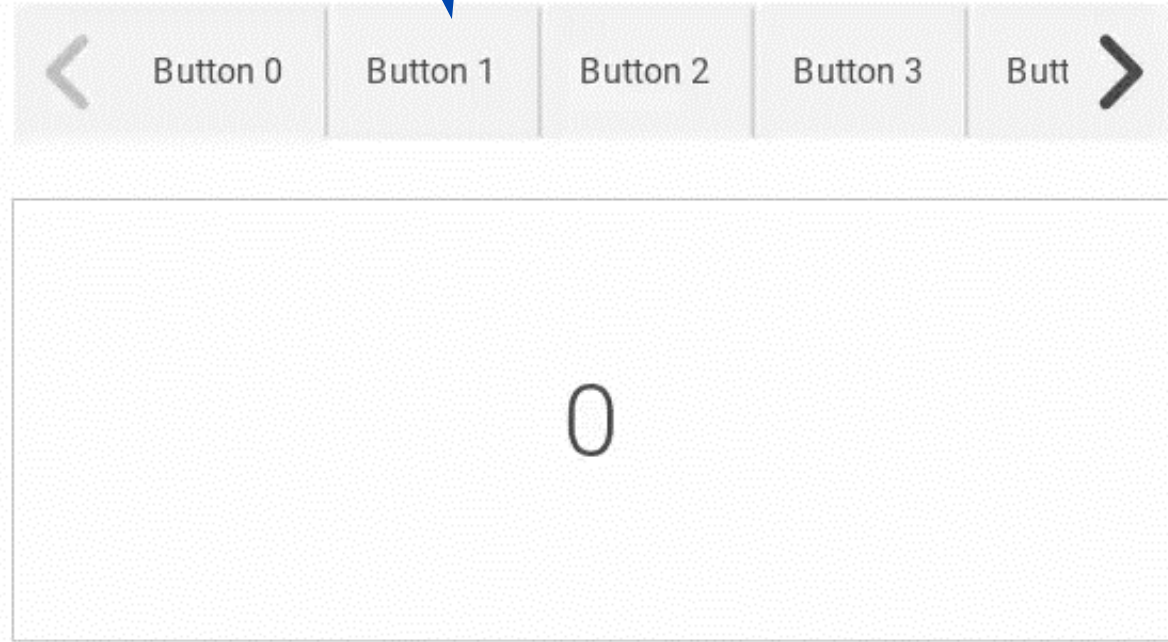
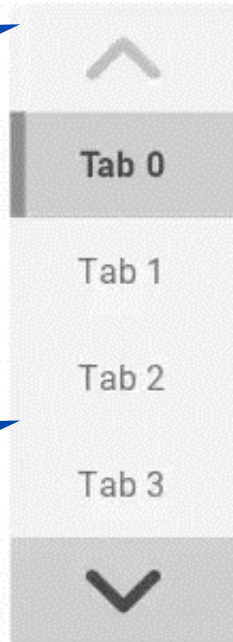
Tab and Toolbar widgets



Embedded scrolling

Automatic navigation buttons

Highlight on last selected item



Ready to use for toolbar actions or selectors

TabBar buttons configuration

Multilanguage Lang1 **B** *I* U Roboto >]

+ -

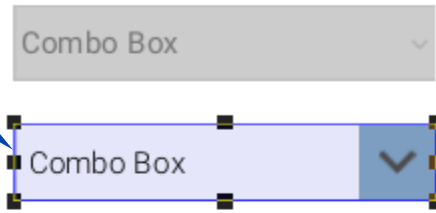
Label	Icon	OnMouseClicked action
Button 0	...	WriteTag(_TagMgr:Tag1,0)
Button 1	...	WriteTag(_TagMgr:Tag1,1)
Button 2	...	WriteTag(_TagMgr:Tag1,2)
Button 3	...	WriteTag(_TagMgr:Tag1,3)
Button 4	...	WriteTag(_TagMgr:Tag1,4)
Button 5	...	WriteTag(_TagMgr:Tag1,5)
Button 6	...	WriteTag(_TagMgr:Tag1,6)
Button 7	...	WriteTag(_TagMgr:Tag1,7)

Enable Live Tags

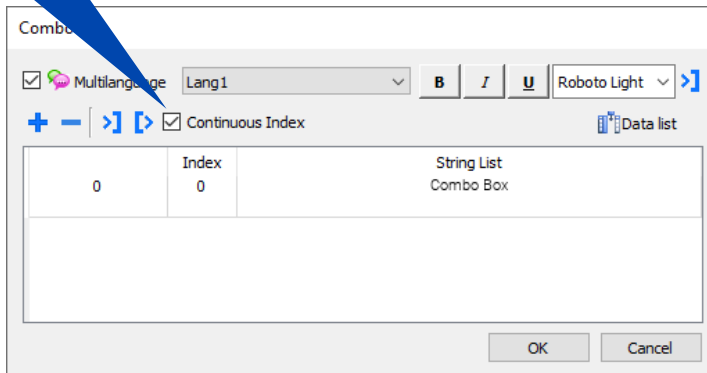
OK Cancel

Combo boxes (renovation)

Fully customizable



Added support for not continuous index

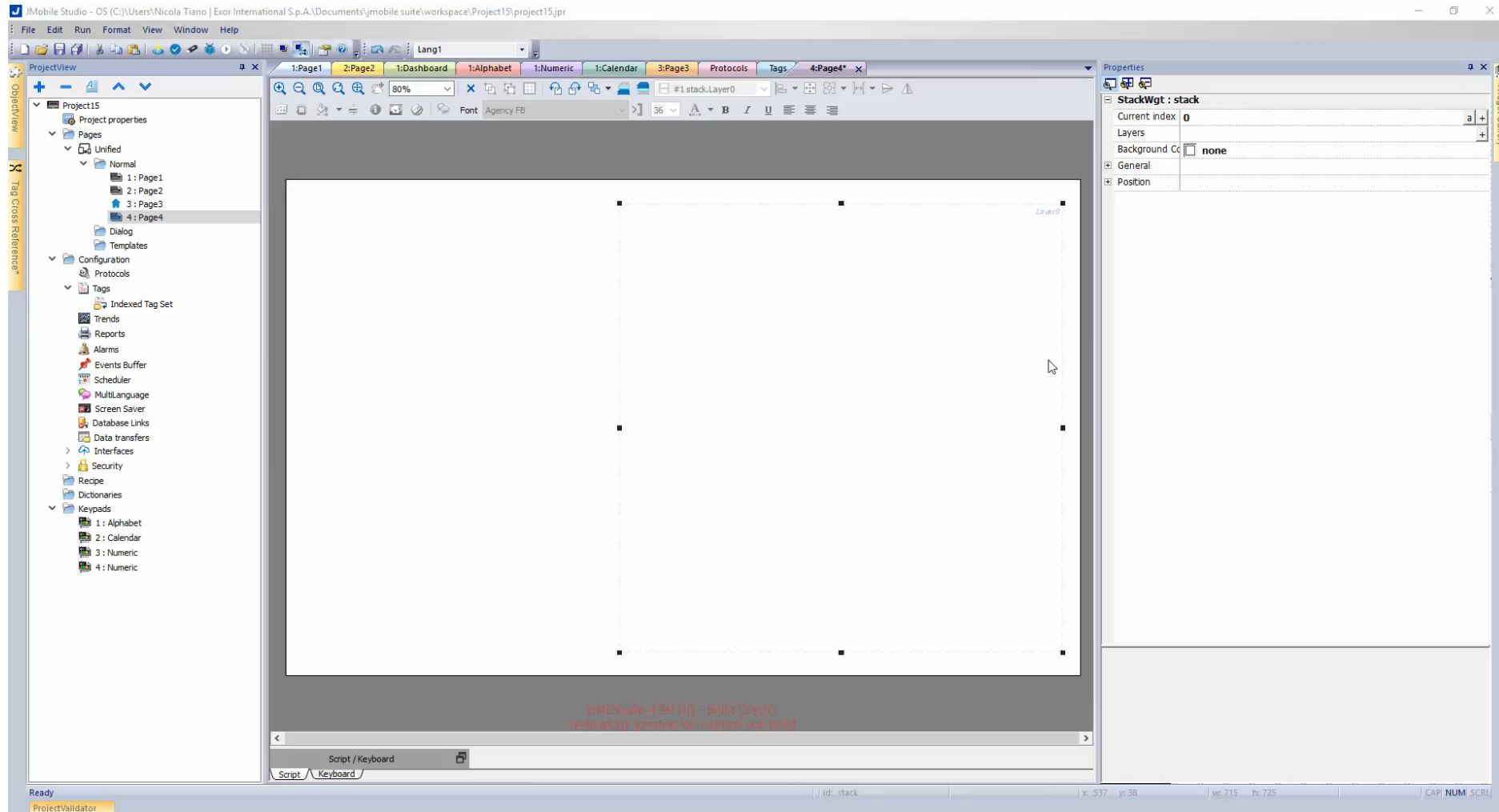


OnDeactivate Action	
[-] Text	
Font	Roboto Light
Font Color	■ [0, 0, 0]
Font Size	12
Font Style	normal
Font Bold	false
Font Antialiasing	true
Type	custom
Border width	1
Border color	■ [0, 0, 255]
Background color	■ [230, 230, 250]
[-] DropList	
Button width	40
Button background Color	■ [125, 158, 192]
Button icon	
Button image width	20
Button image height	20
Background Color	■ [255, 255, 255]
Selection Background Color	■ [0, 176, 199]
Font Color	■ [0, 0, 0]
Selection Font Color	■ [255, 255, 255]
Border Color	■ [60, 179, 113]
Border Width	1
Item Height	0

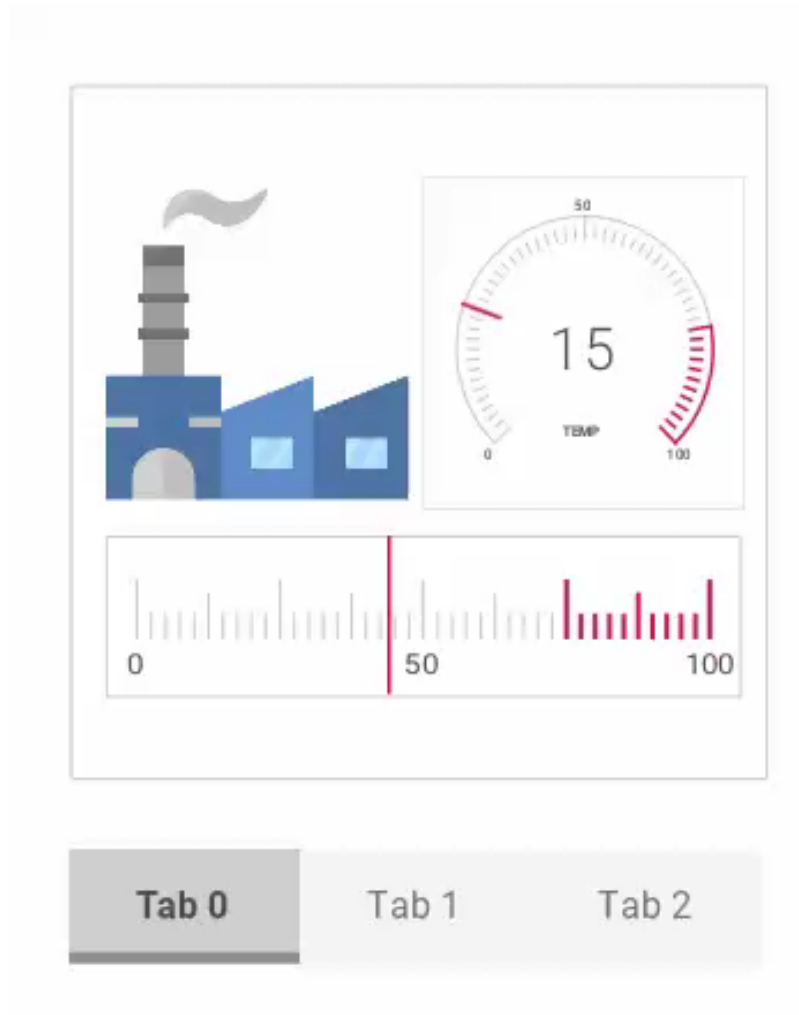
New modern type

More style options

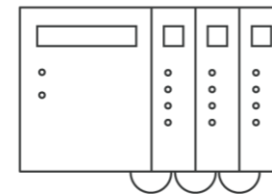
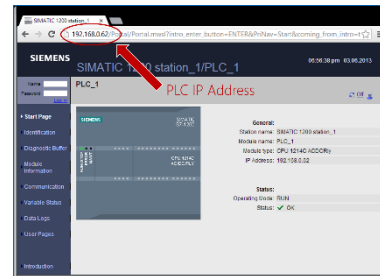
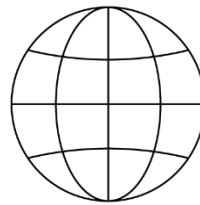
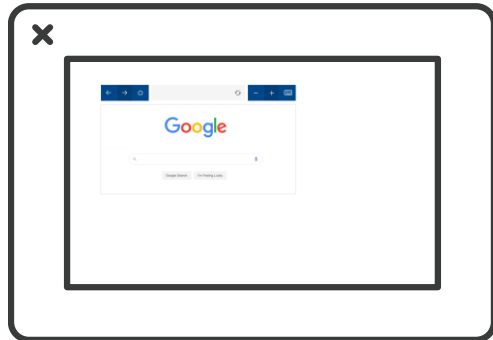
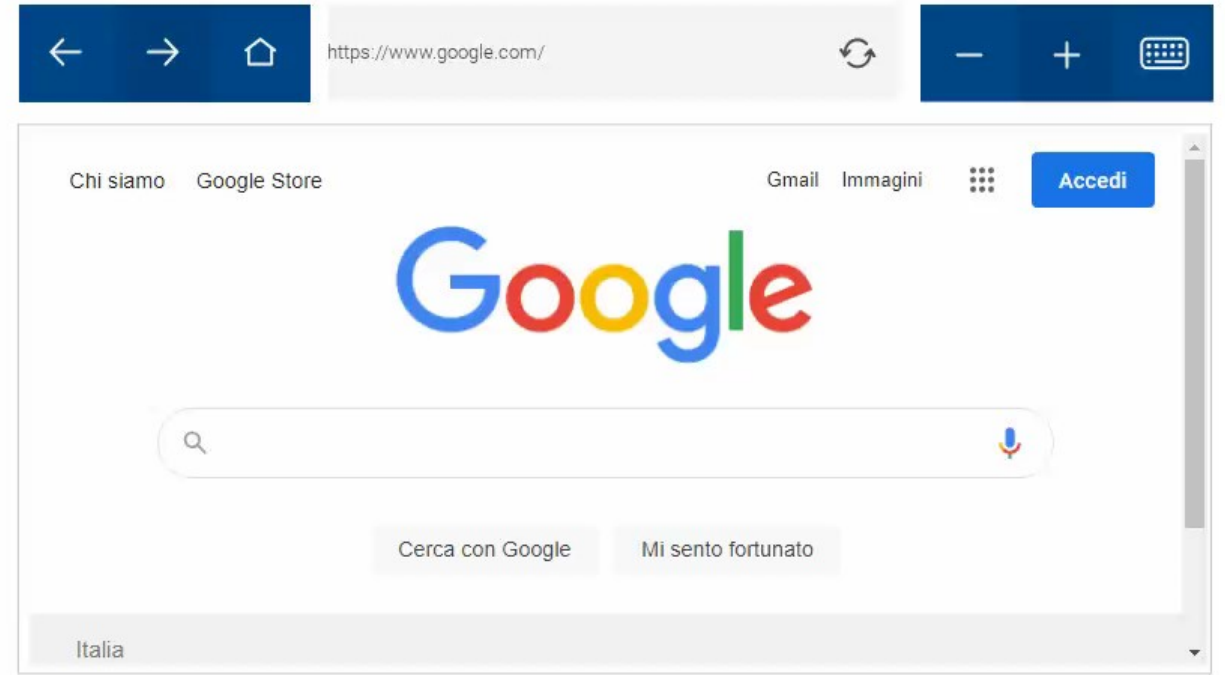
Stack widget | Layers management both in design time and in runtime



Stack widget | Layers management both in design time and in runtime



Web Engine widget



QR code widget

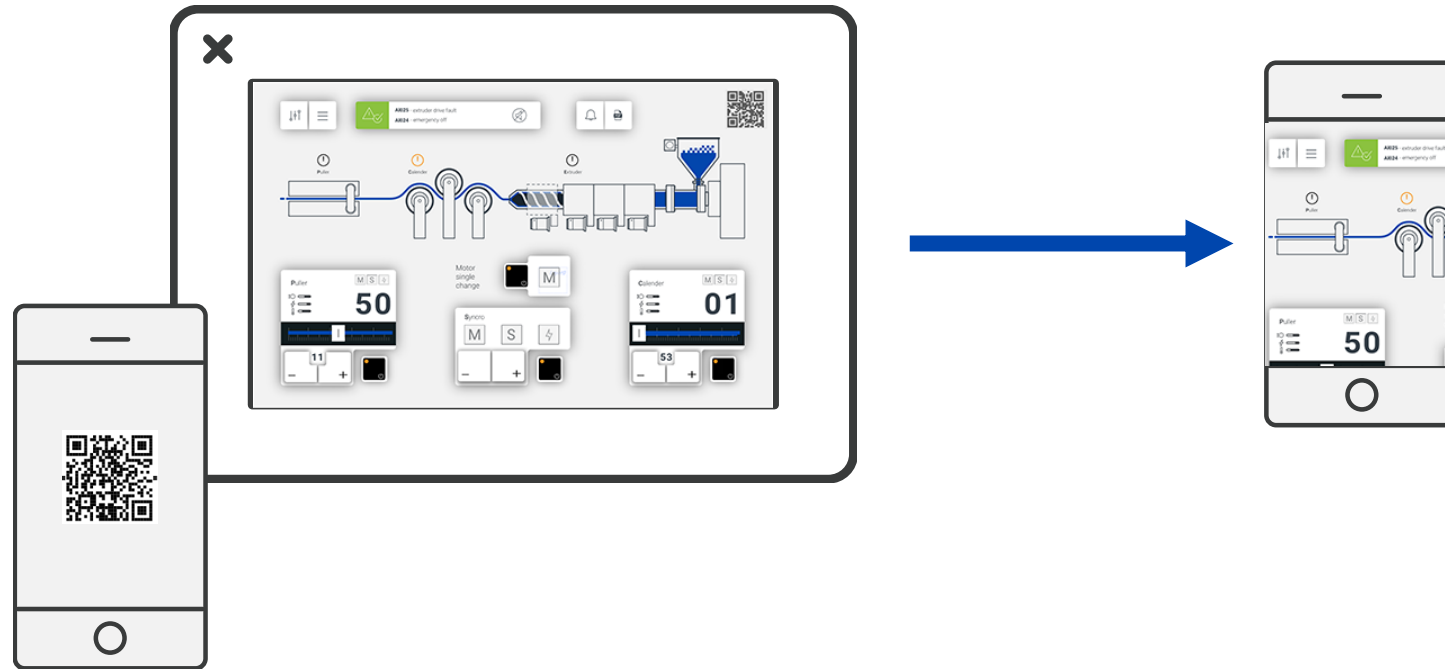
Properties

QRCode : qrcode

Page Name	page2.jmx
IP Address	127.0.0.1
Ethernet adapter	eth0
Prefix	https://
Ethernet Port	80
+ General	
+ Position	

Address or URL

JM4Web integrated:
Easy “jump” on a specific web page of JMobile project



QR code widget

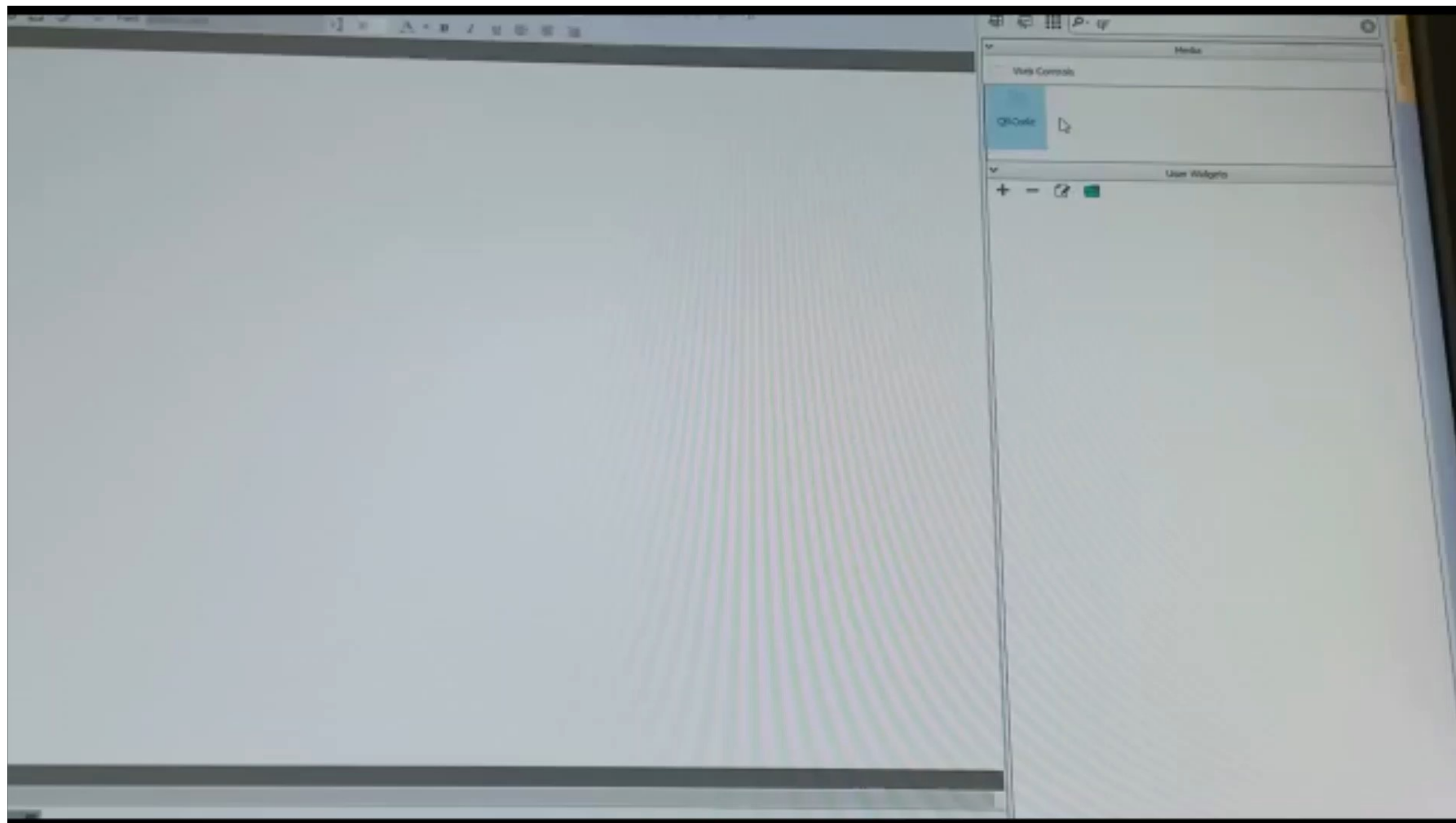


Chart widget

Fully configurable by properties

Axis automatic adjustment

The screenshot displays a software development environment with a chart widget and its configuration properties. The chart widget is a scatter plot with a grid. The y-axis is labeled with values 50, 100, 150, and 200. The x-axis is labeled with values 75, 150, 225, 300, and 375. A legend on the left shows a grey square and a blue square. The properties panel on the right lists various settings for the widget.

Page : Page2	
Id	Page2
Width	1280
Height	800
Fit to Screen Size	Fit to Screen
Background	[255, 255, 255]
Template	none
Static Optimization	true
Static File Type	png
JavaScript Debug	false
Keyboard	true
Precache	false
Events	

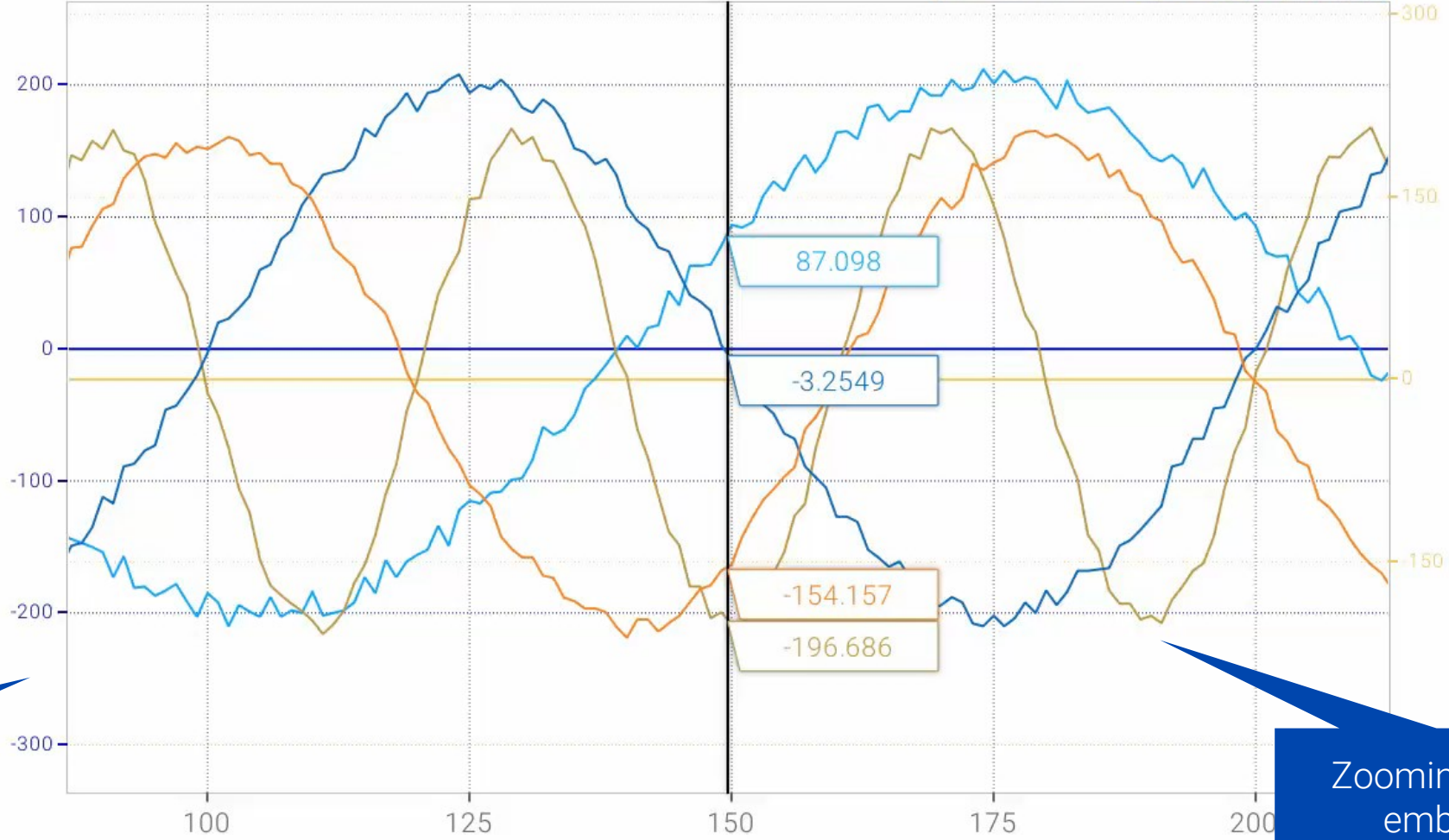
Embedded toolbar

Scatter Chart



- x(t)
- °C
- m²/s

Buttons to toggle visibility and change Min/Max on Axis



Values on cursor by default

Zooming gesture embedded

Security

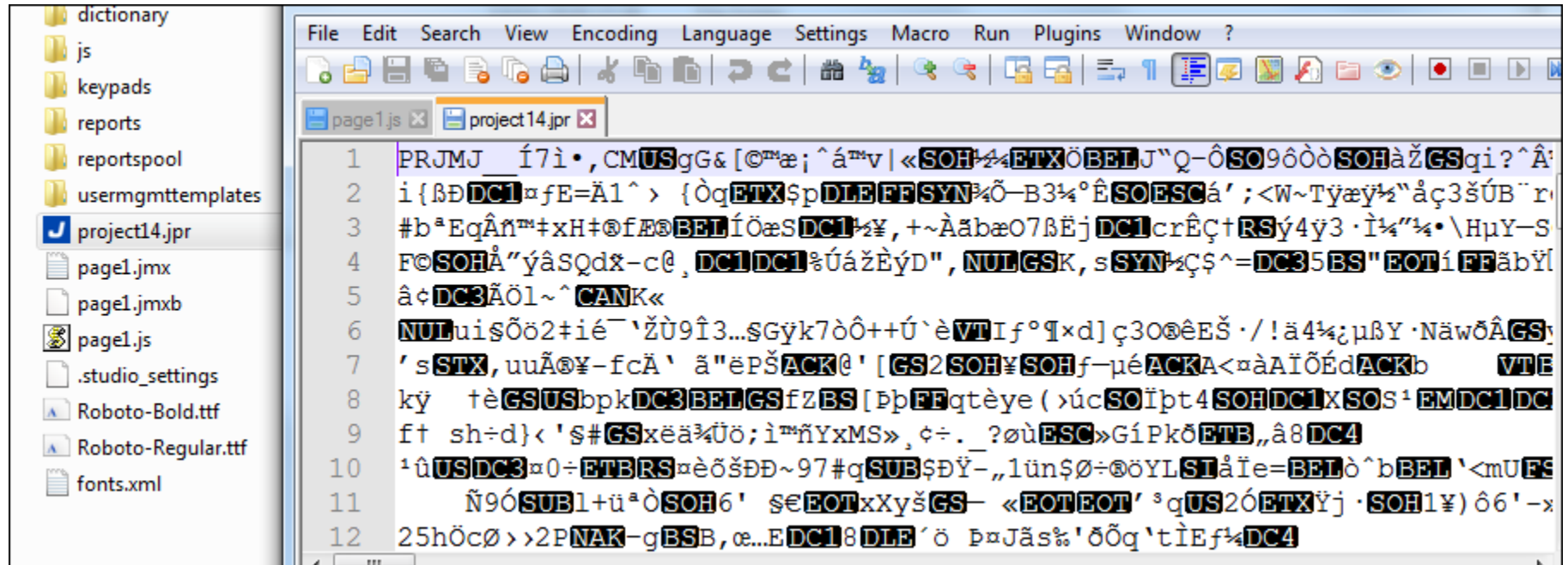
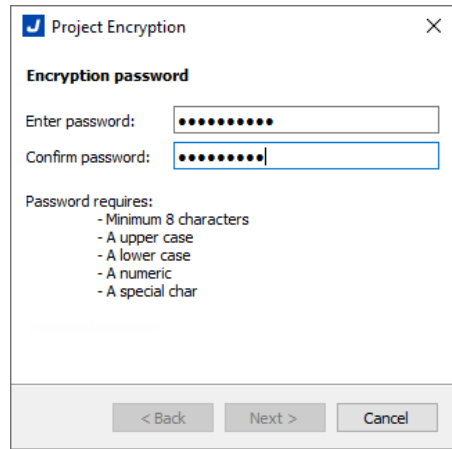
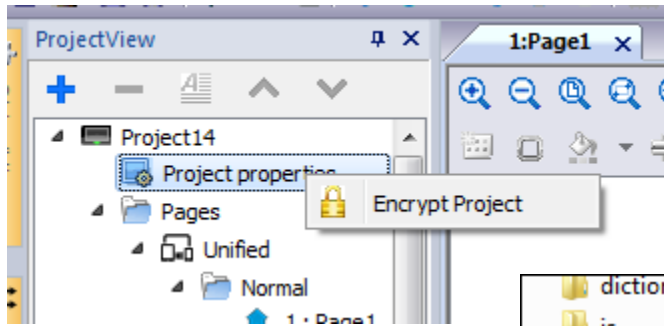
Protect your data

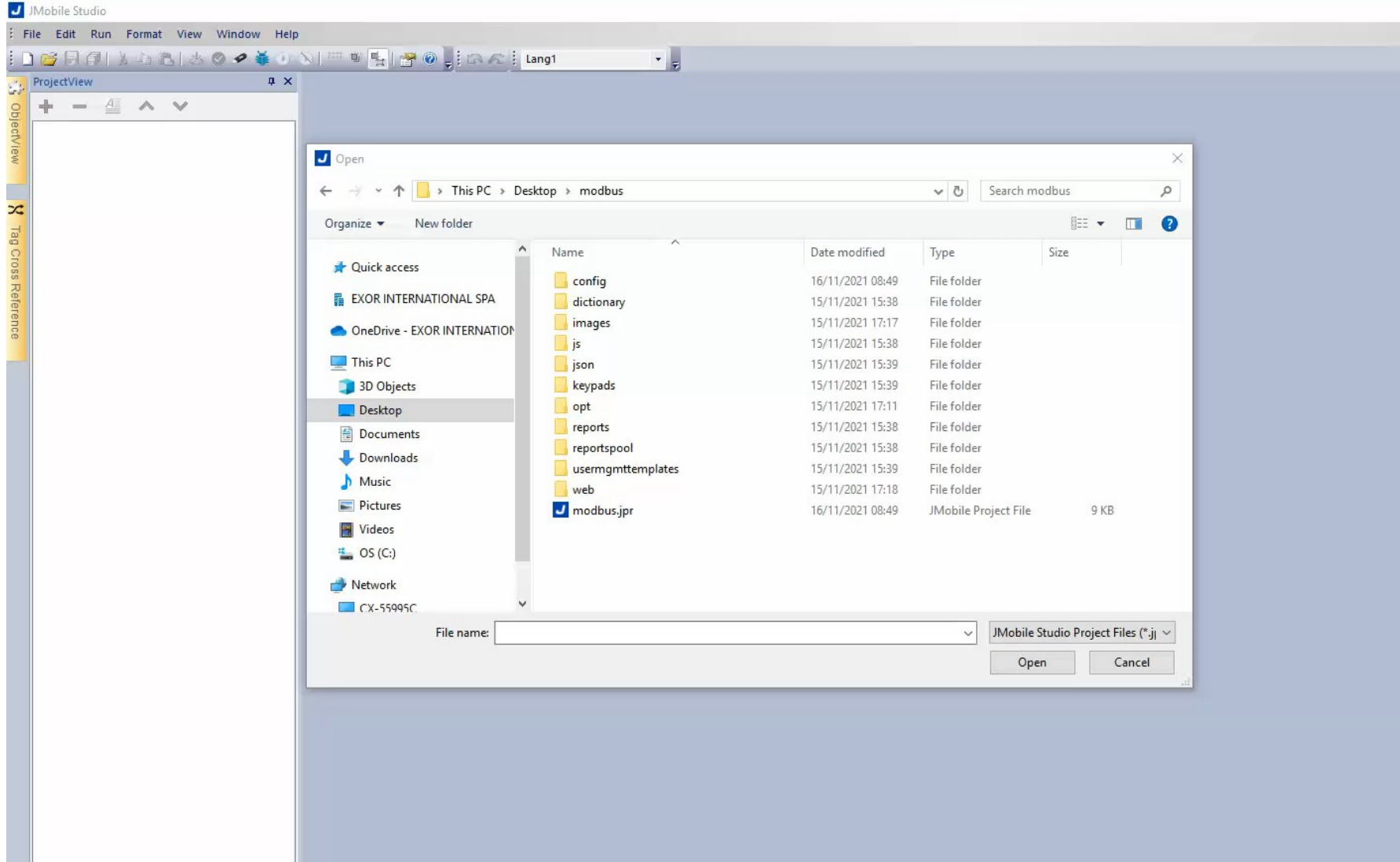
EXOR



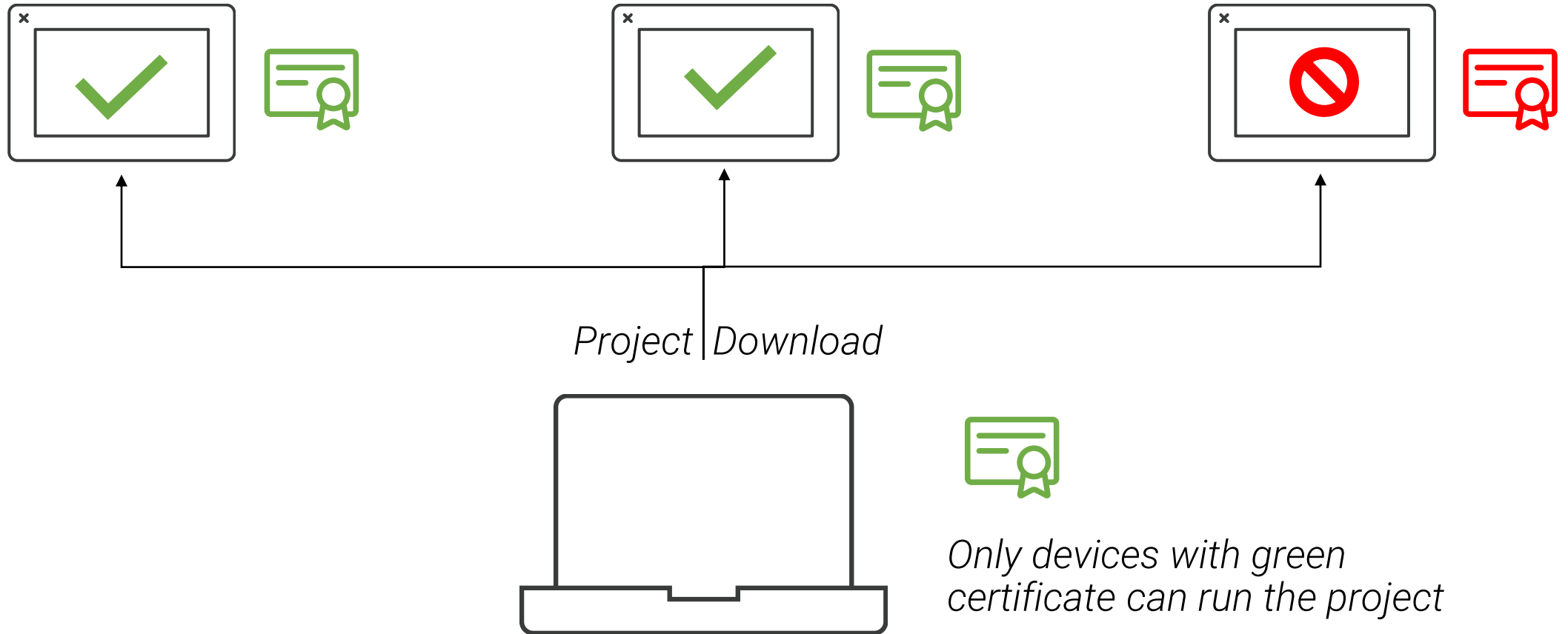
Encryption of all project files

Requires password for opening and for running application

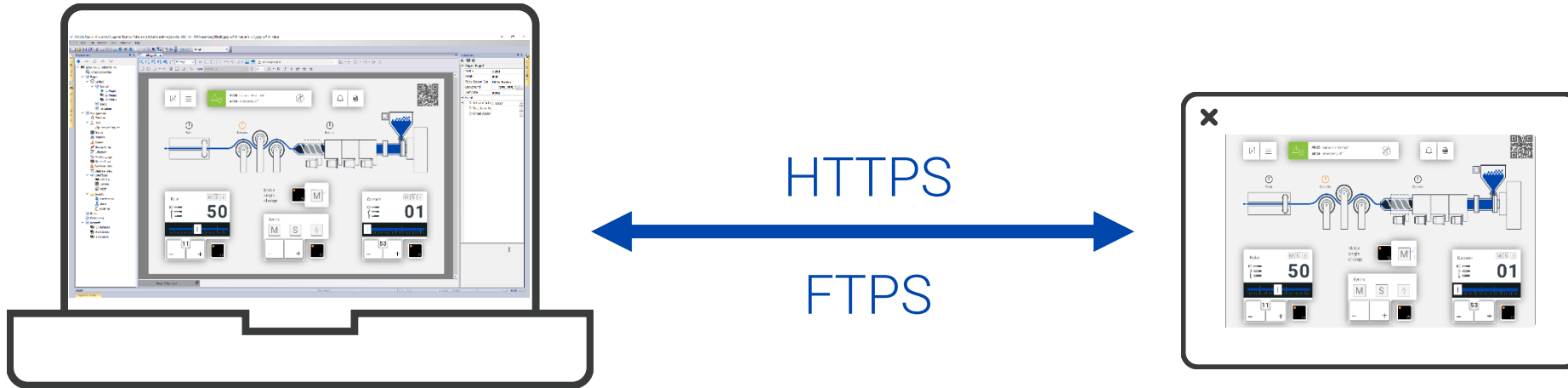




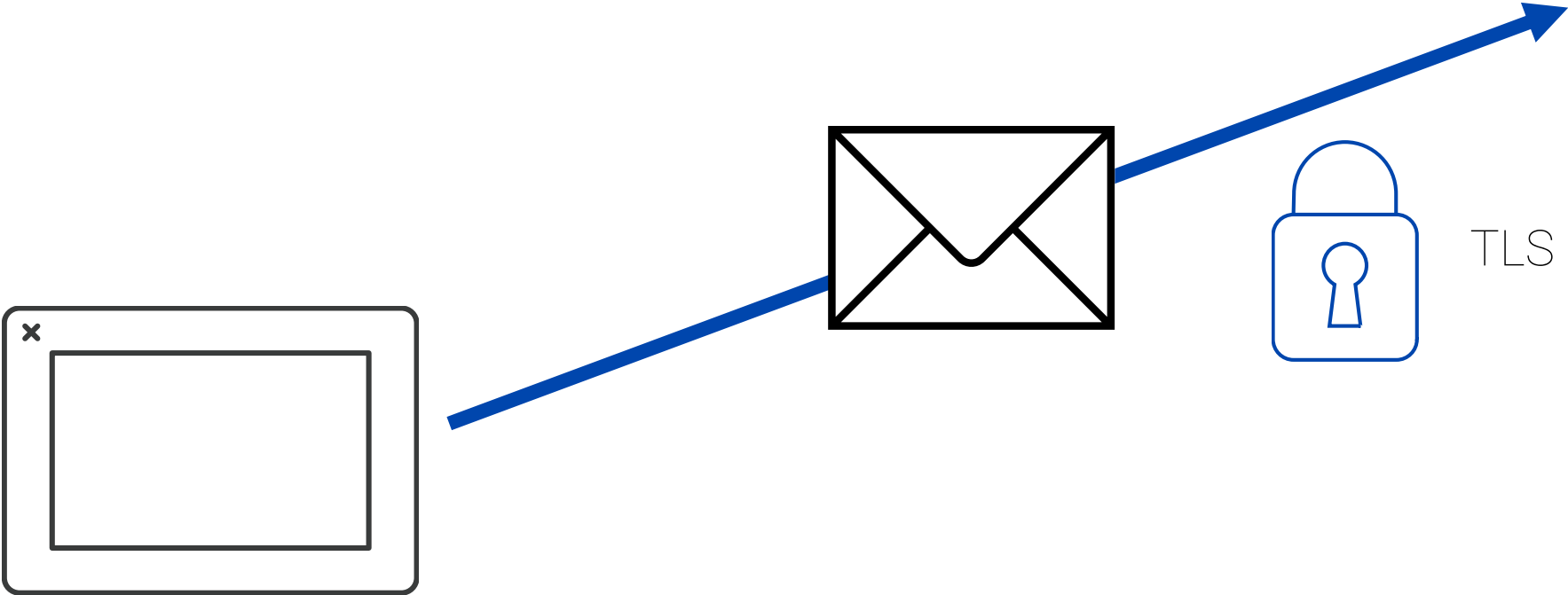
Project signature run on certified hardware only



Transport channel secured



Send Email with TLS security

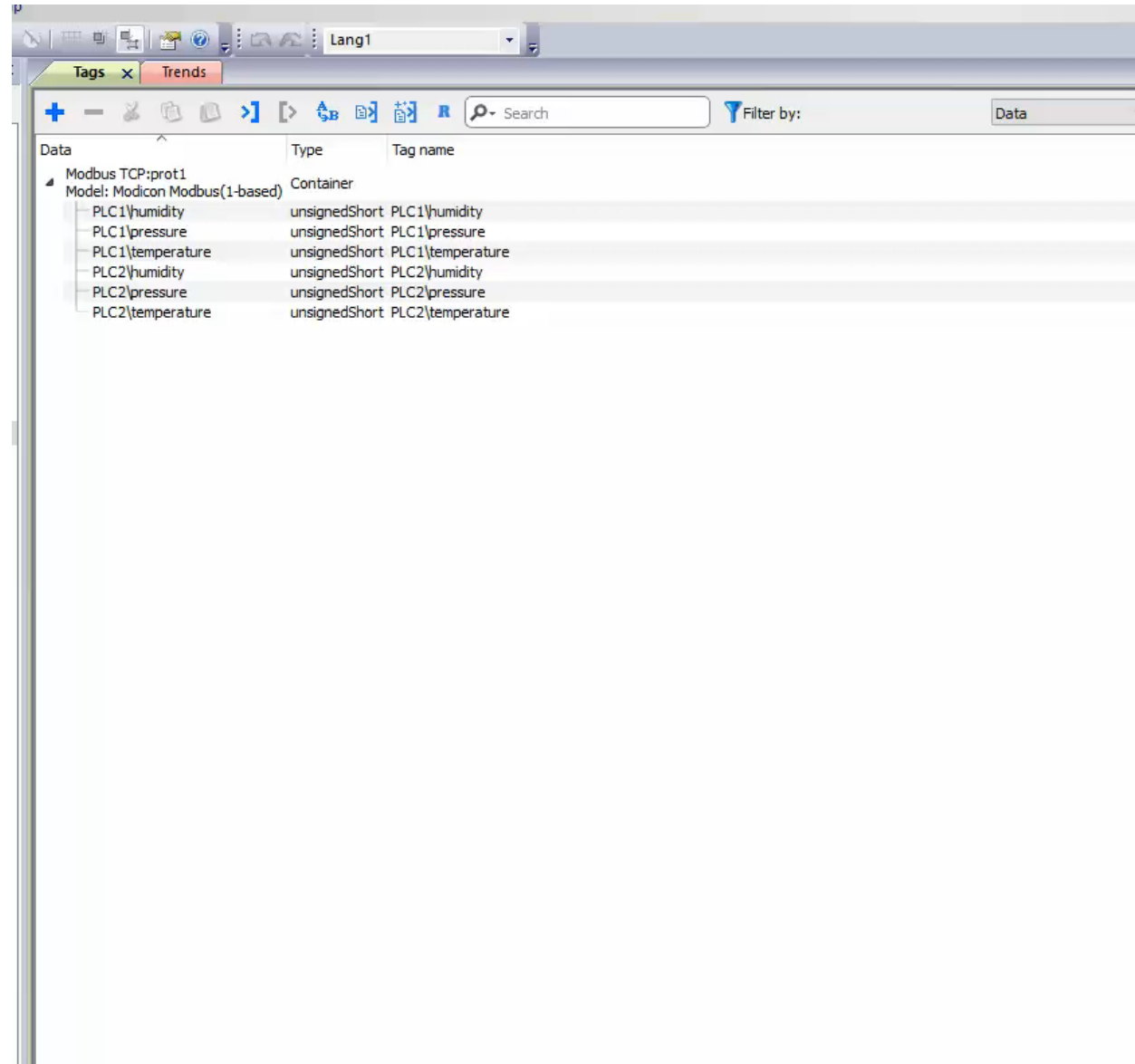


Productivity

Reduce time to create a project

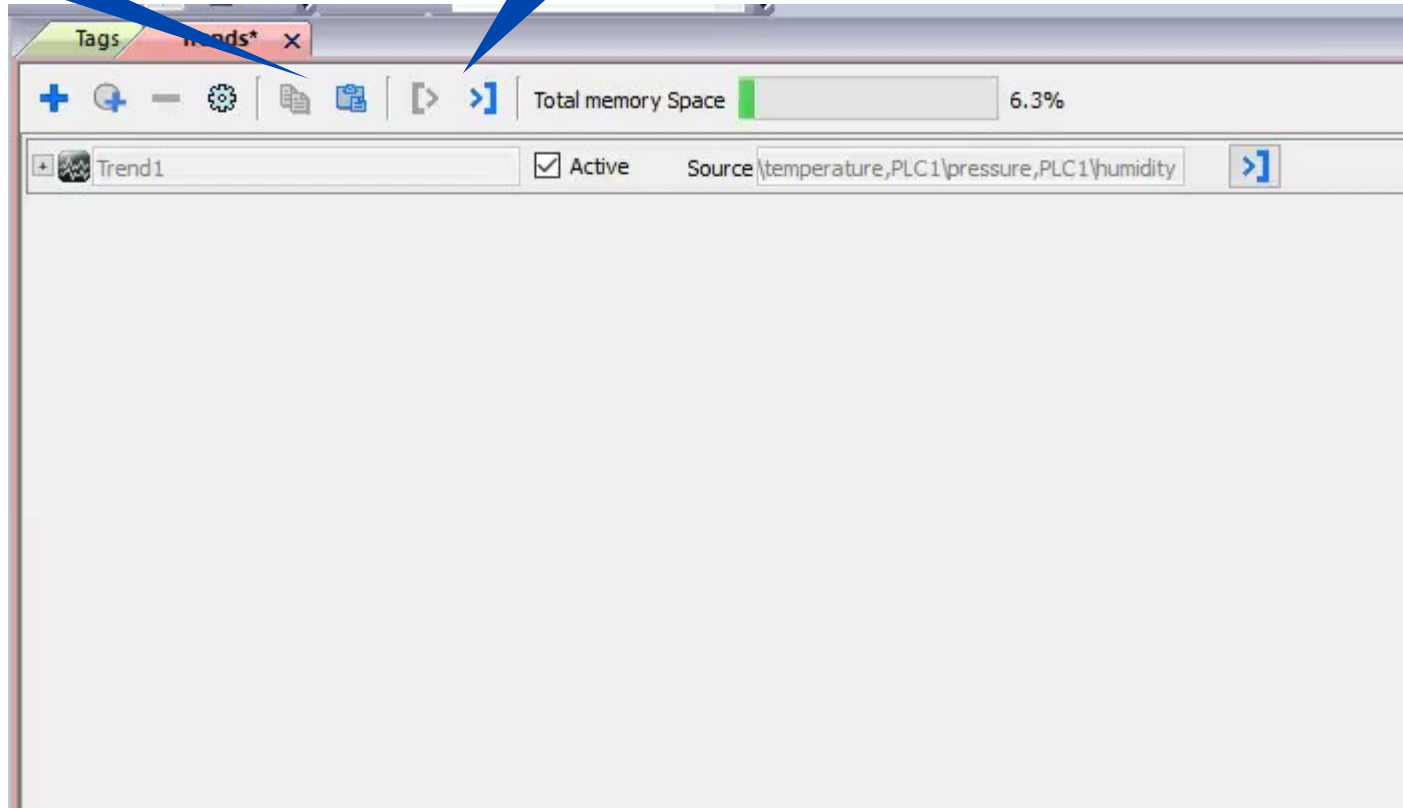


Trend automatic fill based on Tag names



Copy and Paste
feature

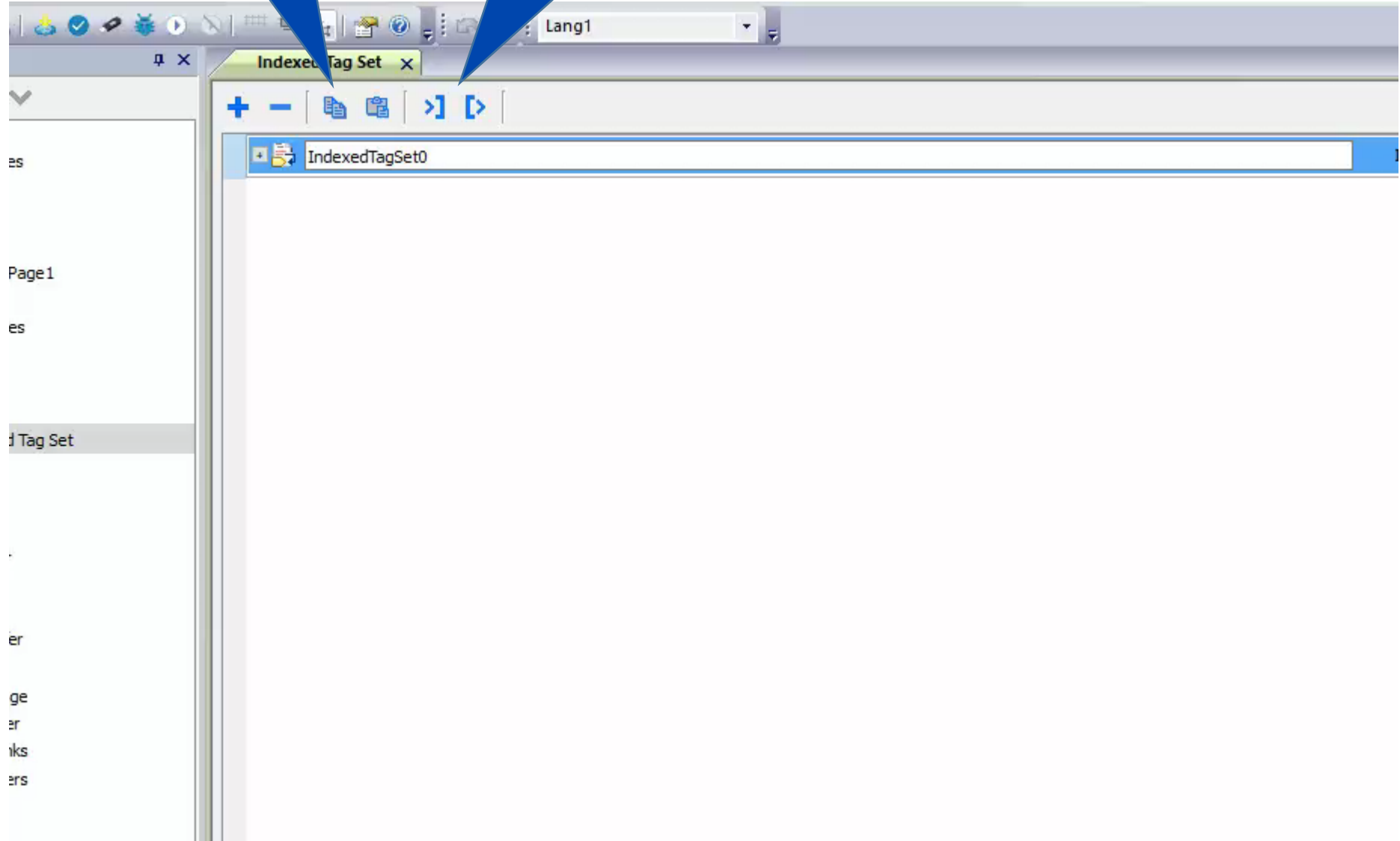
Import and Export
XML format files



Indexed Tag Set Improvements

Copy and Paste feature

Import and Export XML format files

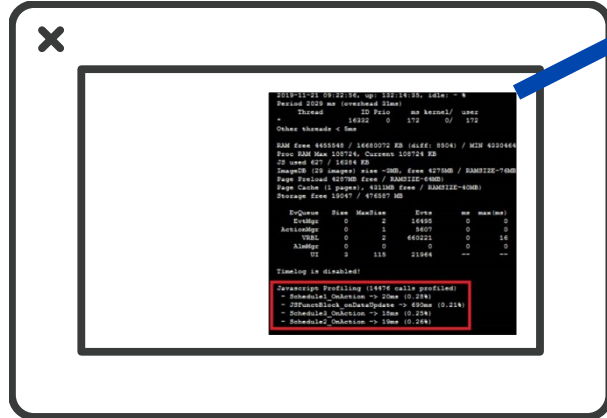


Replace on Invalid Tags (work on conflicts)

The screenshot displays a software interface with two main windows. The left window, titled 'Tag Cross Reference', has a 'Group by: Tag' dropdown and a 'Show: All References' dropdown. Below these are search and filter fields. A list of tags is shown with expandable arrows: Tag1, Tag12, Tag2, Tag21, Tag3, and Tag34. The right window is a document editor with a toolbar at the top showing zoom (118%), font (Agency FB), and other editing tools. The document content consists of a table with three rows and two columns of '99999' values.

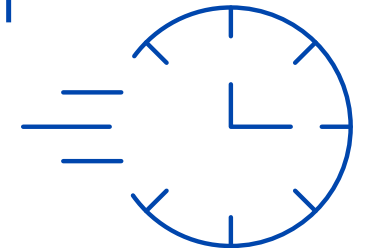
99999	99999
99999	99999
99999	99999

JavaScript profiler in Developer Tools



- function1 -> 20ms (0.28%)
- function2 -> 30ms (1.06%)
- function3 -> 80ms (5.43%)

Speed up analysis for complex projects



Improvements

Bringing general benefits



CODESYS update to version 3.5 SP16



[Release Notes](#)

Pick color from any part of the screen

The screenshot shows a software development tool interface. On the left, a button with a blue fill color and the text "Label" is displayed. On the right, the properties panel is open, showing various settings for the button. The "Up Fill Color" property is highlighted in blue, and its value is shown as a color swatch and the hex code [0, 70, 136].

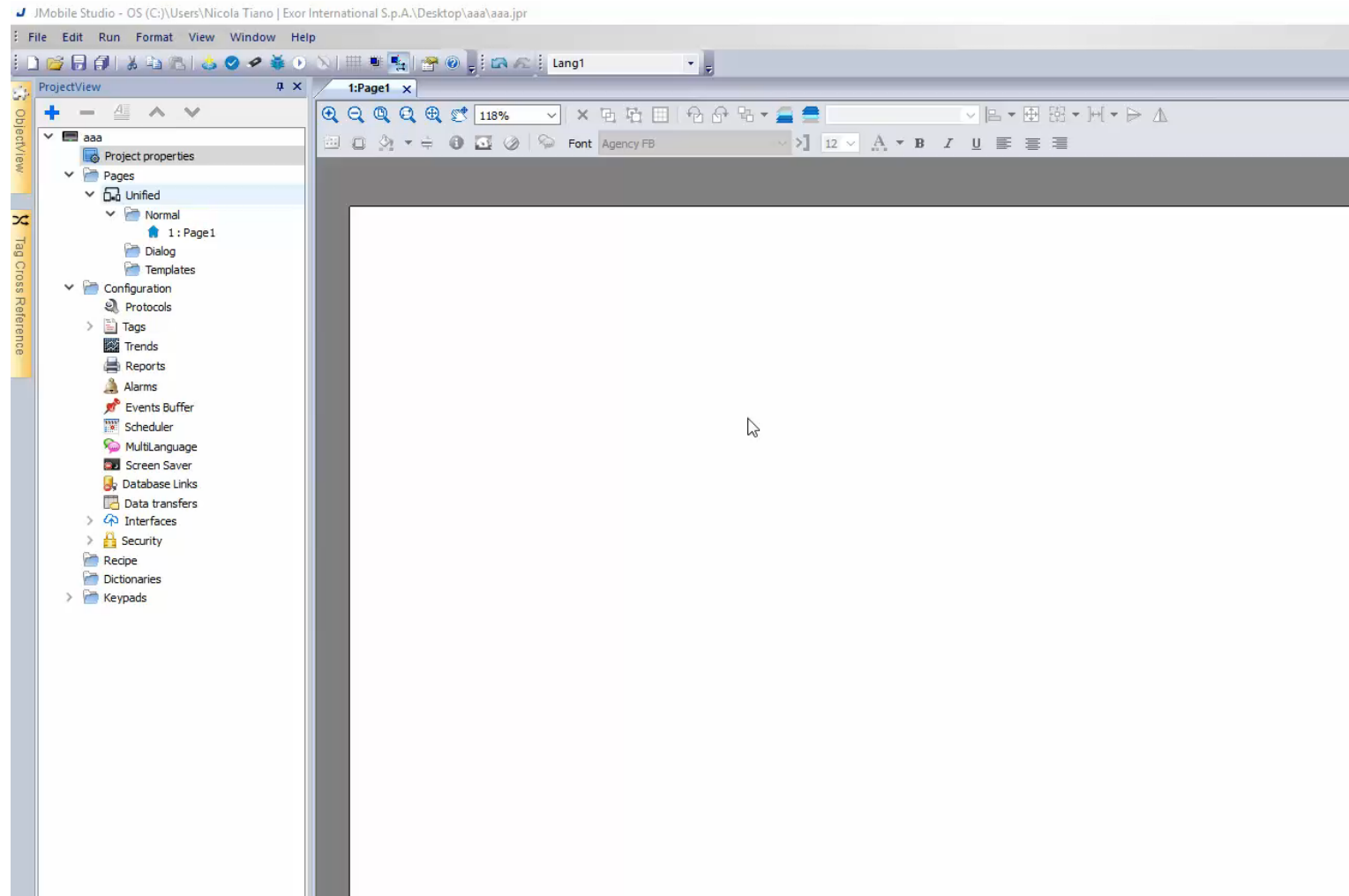
Click Type	momentary
Style	2D
Autorepeat	Disabled
Hold Time (ms)	-1
Label	Label
Up Fill Color	[0, 70, 136]
Down Fill Color	[0, 176, 199]
Events	
Configure	
Text	
General	
Position	

Up Fill Color
Sets the button up color.

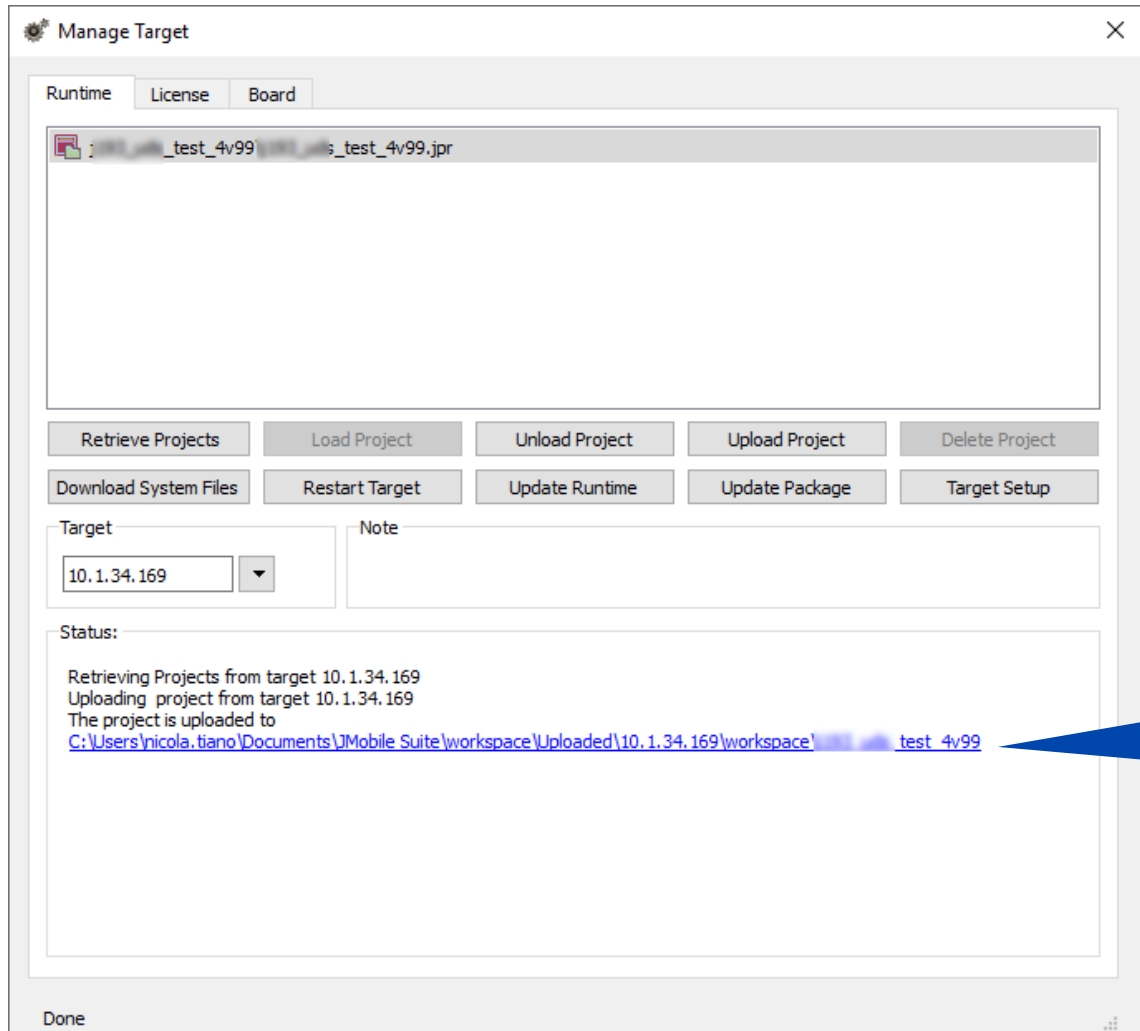
JS properties:
`UpColor = getProperty("ButtonWgt.upColor")`
`setProperty("ButtonWgt.upColor", UpColor)`

At the bottom of the tool, a status bar shows the following information: | Id: BtnStd1 | x: 537 y: 139 | w: 506 h: 225 | CAP NUM SC |

Quick right click to change project type



Quick link to open an uploaded project



Click to open a project read from an HMI

Enhanced selectors for table-based widgets



Keyboards can depend on language

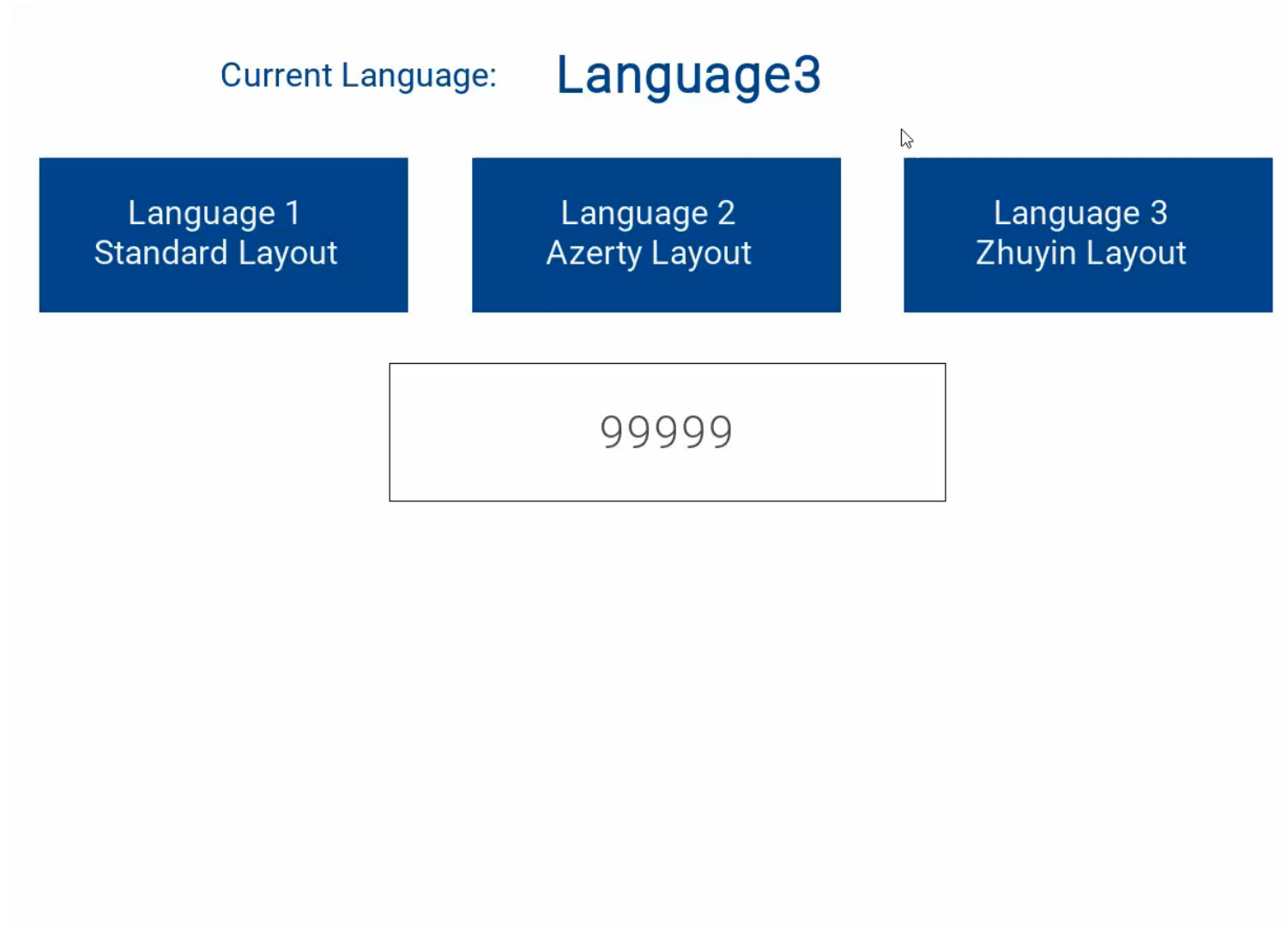
Current Language: **Language3**

Language 1
Standard Layout

Language 2
Azerty Layout

Language 3
Zhuyin Layout

99999



Show lock icon on protected widgets

Gesture Multitouch	True
On Access Denied	Show Icon
ComboBox View Mode	Content
Encrypted Project	Yes

The screenshot shows a widget editor interface. At the top, a blue rectangular widget labeled "Button" is displayed with corner handles. Below it, a dialog box titled "admin authorizations" is open. The dialog has tabs for "Widget", "Action", and "Tag". The "Widget" tab is active, showing a list of widgets. The first widget is "BtnStd1", which is expanded to show a table of permissions:

Widget	Permission
BtnStd1	Read Only

At the bottom of the dialog are "OK" and "Cancel" buttons.



System Settings shortcut from Manage Target

Manage Target

Runtime License Board

Target
IP: 10.1.34.32

Files

Refresh Max parallel operations: 1 Abort Download Upload

Select	Host	IP	MAC	Application	Main
<input checked="" type="checkbox"/>	HMI-04e7	10.1.34.32	0030D80504E8	N/A	
<input type="checkbox"/>	HMI-218c	10.1.34.152	00074625218D		
<input type="checkbox"/>	HMI-2898	10.1.34.106	0030D806DDD6		
<input type="checkbox"/>	HMI-42d3	10.1.34.177	0030D80542D3		
<input type="checkbox"/>	HMI-4b6c	10.1.34.136	0030D806486C		

Status Details Settings

10.1.34.32 : Reading panel information...
10.1.34.32 : Panel information retrieved successfully...

Verbose log Save to File Clear

Done

System Settings

Non sicuro | https://10.1.34.32/mac...

System Settings

- Language
- System
- Logs
- Date & Time
- Network
- Services
- Management
- Display
- Restart
- Authentication

EXIT

Management

ADMIN

Config OS

Type: ex4
Version: UN73BE16C01000632
Date: 2020-01-10T00:00:00.000Z

274 Mb / 224 Mb used

Get Update Check

Main OS

Type: ex4
Version: UN73BE16M01000344
Date: 2018-06-21T00:00:00.000Z

321 Mb / 476 Mb used

Get Update Check

Settings

1 Mb / 1 Mb used

Get Update Restore Check

Data

Splash image

Bootloader

New project properties

Possibility to avoid any alert popup message in runtime

Added animation spinner to load web pages

[-] Project	
Display Mode	Landscape
Project Type	JSmart707
Panel Memory	4GB
PageRequest	
CurrentPage	
SyncOptions	disable
Hold Time (ms)	2000
Autorepeat Time (ms)	250
Background color option	None
ComboBox View Mode	Context
Encrypted Project	false
Sign Project	false
Show Messages	true
Enable CSRF Token	true
[-] Web	
WebPageRequest	
Enable change page animation	true

Support token for web security

OPCUA Client protocol improvements

Options to perform or skip validations

Easy way for import certificates

CODESYS V3 protocol improvements

CODESYS V3 ETH

PLC Network

Alias

Protocol UDP

IP address

Timeout (ms)

Variable list count

PLC Models

- CODESYS 3
- Schneider

OK

Cancel

Added TCP mode for more reliability and to support complex sub networks