## Welcome to ABB Panel Builder 600 V4.5.0

These release notes contain important information about the Panel Builder 600 software. Please read this file carefully and completely. It contains the latest information and relevant documentation. The latest version of this document is available at:

https://search.abb.com/library/Download.aspx?DocumentID=3ADR011058&Action=La unch

	Functional changes / New features	Version
PB610	) Panel Builder 600:	4.5.0.501
_	Alarms	
	<ul> <li>Add Date Format property in action DumpEventArchive</li> </ul>	
	<ul> <li>Add Touch Ack Notify sent only when the Ack is performed</li> </ul>	
	locally by the HMI	
_	Behavior	
	<ul> <li>Client Cache Improvement</li> </ul>	
	<ul> <li>Download, as project resources, specific protocol files</li> </ul>	
	(userdata)	
	<ul> <li>Added Analog Camera widget</li> </ul>	
_	Gallery	
	<ul> <li>○ Review and improve widget gallery</li> </ul>	
_	Generic	
	<ul> <li>Add to project properties a flag to allow users to disable</li> </ul>	
	any type of popup controlled by runtime	
	<ul> <li>openssl CVE-2022-1292</li> </ul>	
	<ul> <li>Add panel model CP6607-FB</li> </ul>	
_	JavaScript	
	• Added JS profiling in Runtime developer tools for deep	
	diagnosis	
	<ul> <li>Dialog size can be changed from JavaScript up to</li> </ul>	
	1920x1080 resolution	
	<ul> <li>Added API for Load project / Last visited project actions</li> </ul>	
_	MQTT	
	<ul> <li>Added Tag interface to MQTT</li> </ul>	
	<ul> <li>Improved management of MQTT CA Certificate file</li> </ul>	
	<ul> <li>MQTT: Improve the accuracy of currentTimestamp to ms</li> </ul>	
_	Multilanguage	
	<ul> <li>Possibility to associate a keypad to current language</li> </ul>	
_	PB4Web	
	<ul> <li>PB4Web: Extend gesture area widget with possibility to</li> </ul>	
	execute one	
	<ul> <li>shot actions on new events + support for gstArea widget</li> </ul>	
	<ul> <li>PB4Web: Added Scheduler widget in read mode</li> </ul>	
	<ul> <li>PB4Web: added support for widget filtering</li> </ul>	
	<ul> <li>PB4Web: widgets are not accepted during the Canvas</li> </ul>	
	widget drawing	
	<ul> <li>PB4Web: Data Transfer action</li> </ul>	
	<ul> <li>PB4Web: Possibility to choose widget objects from Index</li> </ul>	
	Tag parameter in Indexed Tags	
	<ul> <li>All Fonts type can be used in PB4Web</li> </ul>	

• All Fonts type can be used in PB4Web

	0	PB4Web: Stack widget integration	
	0	PB4Web: Tab bar widget integration	
	0	PB4Web: Add support to parameters feature into formula	
		conversion	
	0	PB4Web: login page restyled	
	0	PB4Web: Added loaded progress bar	
	0	PB4Web: Optimizations and performance improvements	
	0	Option to enable/disable web runtime spinner (loading) on	
		page change	
	0	PB4Web: Added "logout" API called from project instance	
	0	PB4Web: Add Epoch and ISO8601 standard as available Data	
		Format	
_	Proto		
	0	Added dictionary file synchronization on tag for most used	
		protocols	
	0	[CDS3] Remove "full node address" option	
	0	[MIQE][MIQS] Increase Offset range for some CPU model	
	0	[S7ET][S7OP] Add support for importer TIA Portal project 17	
	0	[MODS] Node disable management for Server protocols	
	0	[MODR] Node Override for Modbus TCP Server with	
		possibility to disable node	
	0	[S7DP] Add Node Override feature	
	0	[PROD] Not possible to set NodeOverride tag to 0	
	0	[MRTU] Add support for array elements direct access in	
		Modbus RTU	
	0	"[S7OP] Import array of strings as separated strings - Case	
		ID:	
	0	202200428"	
	0	[MODS] Node disable management for Server protocols	
	0	[MRTU] Reduce protocol communication gap	
	0	[MRTU] Add support for array elements direct access in	
		Modbus RTU	
	0	[OPCU] Add possibility to auto accept server certificate	
	-	from protocol editor [OPCU] Improve protocol editor certificate settings	
	o Recipe	· · ·	
_		Added warning message when restore recipe fails due to	
	0	not supported chars	
_	Remo	te clients	
	0	Added warning message when restore recipe fails due to	
	0	not supported chars	
_	Securi		
	0	Certificate to sign projects	
	0	Added FTPS secure communication	
	0	Enhanced password hashing method in runtime and PB	
	0	TLS support for PB mailing	
	0	Added project signature functionality to allow only certified	
	-	project to run	
	0	Added HTTPS secure communication	
	0	Added timeout after wrong password for user login	
	0	Added CSRF (Cross-site request forgery) token as project	
		property for web security	
	0	Updated openSSL library	

	0	Enforced default settings for user management/security	
	0	Added project file encryption	
_	Simula	ator	
	0	Added tool in Simulator to watch and simulate project tags	
	0	Added Online Simulator tool	
-	SQL		
	0	Added database native connectors	
	0	"Added table data source widget for easier connection with	
		database	
	0	query"	
	0	Added PostgreSQL connector as native DB connector	
	0	Added ODBC connector as native DB connector	
	0	Add Unicode Support for DB Connectors	
_	Tags		
	0	Possibility to display better view for indexed tags sets in	
		case of long name tags	
	0	Add "replace" button for "Invalid Tag Reference"	
	0	Import/Export/Copy/Paste for Indexed Tag sets	
	0	Tag editor improvement, add double click selection for	
		properties	
	0	Added Client system variable to support remote variable	
		scenarios	
	0	Enhanced scenarios of synchronization with external Tag	
		symbol files: choose to keep datalinks when Tags is	
		removed externally	
	0	Possibility to choose widget objects from Index Tag	
		parameter in Indexed Tags	
	0	Importer default selection should follow also the combo-	
		box selection of protocols	
	0	"Add tag name info in read block and read datagram error in	
		protocol	
	0	error message"	
	0	Manage tag values with offline simulator	
-	Trend		
	0	"Added Up and Down button in Trend Data log to reorder	
		Tags to be	
	0	sampled"	
	0	Sampling Time datalink is available only if we have more	
		than one tag to log	
	0	Add Minimum interval Time to 100 ms in trend sample when	
		it used a Trigger Tag	
	0	Trend buffer import/export, clone and autofill	
	0	Add "Attach to" option for FileName properties of	
		DumpTrend	
	0	Add Epoch and ISO8601 standard as available Data Format	
-		nterface	
	0	Automatic offsets for retentive variables	
	0	Added System Settings button in Manage Target	
	0	Change Project Type option on right click of Device node in	
		project tree	
	0	"Added possibility to choose project upload folder and	
		quick click to open	
	0	an uploaded project"	

<ul> <li>Added Online help</li> <li>Widgets         <ul> <li>PB4Web: Table widget sorting support</li> <li>New scatter chart widget</li> </ul> </li> </ul>	
<ul> <li>PB4Web: Table widget sorting support</li> </ul>	
<ul> <li>New scatter chart widget</li> </ul>	
<ul> <li>"Added 2D and 3D style to buttons to choose text behavior</li> </ul>	
when button	
<ul> <li>is pressed"</li> </ul>	
<ul> <li>Added continuous index option in combo box widget</li> </ul>	
<ul> <li>Enhanced Web browser widget capabilities</li> </ul>	
<ul> <li>Add MJPEG Camera URL between the basic properties of IP</li> </ul>	
Camera Widget	
<ul> <li>Added Dashboard pages</li> </ul>	
<ul> <li>Added Tag bar widget</li> </ul>	
<ul> <li>Added Stack widget to manage layers</li> </ul>	
<ul> <li>Added new icons in widget gallery</li> </ul>	
<ul> <li>Added QR code widget</li> </ul>	
<ul> <li>Web Browser widget: Add save cookie and Accept-Language</li> </ul>	
support	
<ul> <li>Provided way to load legacy widget gallery</li> </ul>	
<ul> <li>Common alignments settings for all text/numeric widgets</li> </ul>	
<ul> <li>Added historic and real time trend chart widgets</li> </ul>	
<ul> <li>Added user gallery configurator for icon, display text and</li> </ul>	
tooltip	
<ul> <li>Optimized layer widget communication management to</li> </ul>	
activate only active layer	Manalan
Bug corrections	Version
– Alarms	4.5.0.501
<ul> <li>Alarm import file filter not effective when PB runs in French</li> </ul>	
language	
<ul> <li>Live Tag of Multi size array generate an invalid Tag</li> </ul>	
reference	
<ul> <li>Corrected behavior of alarms connected to array elements</li> </ul>	
– Audit Trail:	
<ul> <li>Warning message appears at every Logout after Date&amp;Time</li> </ul>	
change	
– Behavior	
5	
– Behavior	
<ul> <li>Behavior         <ul> <li>Corrected behavior of HMI Client application in boot sequence</li> </ul> </li> </ul>	
<ul> <li>Behavior</li> <li>Corrected behavior of HMI Client application in boot sequence</li> <li>Initial change password not working with Client</li> </ul>	
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	0	Improved tag selection in specific sequence from Tag Editor	
	0	In runtime, all web files are stored in main project folder and	
		not inside web folder	
	0	BACnet scheduler can't read weekly boolean tag and crash	
		with PLCtrend	
	0	Corrected behavior of specific project causing	
		disconnection from HMI client	
	0	Corrected behavior on specific project tun on Simulator	
	0	Corrected PB behavior when cutting some tags in tag editor	
	0	Aligned differences in rendering on the HMI device or in the	
	0	web using a large amount of data	
	0	Corrected PB behavior in project conversion if project is not	
	0	saved as but renamed	
	-		
	0	Corrected data entry behavior on scaled numeric field linked	
		to recipe selected set	
	0	Opening an external application while holding button	
		causes button to remain pressed	
	0	Corrected false positive error on loading images at project	
		opening	
	0	Corrected unexpected behavior of runtime using specific	
		project	
	0	JavaScript Editor increases the distance between two	
		consecutive rows of code under specific scenarios	
	0	Corrected hierarchical importers behavior	
	0	Corrected USB update behavior in specific conditions	
	0	Corrected behavior when DBWrite Action are executed and	
		Fast Boot is enabled	
	0	Corrected runtime behavior on print action with specific	
		project	
	0	Fixed behavior while setting protocols with plc network and	
		specific steps	
	0	CODESYS 3.5 SP14 runtime not communicating with	
		protocol on WCE	
	0	Corrected behavior on second project download for specific	
		hardware	
	0	Fixed runtime behavior on loading a specific project	
		Action "File > Save Project As" doesn't show the path of the	
	-	current opened project	
	0	Corrected disk size value displayed in project wizard for	
	Ũ	some models	
_	JavaSo		
	0	Corrected action execution on JavascriptFuncBlock on	
	Ũ	project level	
_	MQTT		
	0	MQTT timestamp is published differently for Will/Birth	
	0	message and for Data Pub message	
	0	MQTT Interface when we open the Manage push policies,	
	0	the default policy changes to OnChange	
	-		
	0	MQTT AlarmGroup keyword is always the same at runtime	
	0	MQTT TLS version is inherited from Generic Broker	
	_	configuration	
	0	Connection to Amazon AWS not working, bad character in	
		if_mqtt.xml file	

0	MQTT: Value received does not update the tag if tagName	
	keyword is not present in topic	
0	MQTT with multiple tags in payload published wrongly when on timer is Used	
0	Corrected MQTT connection behavior with Google IoT Core	
0	broker	
0	Corrected MQTT behavior when using TLS without	
	certificates	
0	MQTT: Runtime HMI cannot publish to Amazon AWS Broker	
	due to plugin missing	
– PB4W		
0	PB4Web: Improve error message in case of incorrect web	
	agent	
	PB4Web: GridLayout on web page generates an error	
0	PB4Web: Indexed alias not working when in case array tag is	
	attached using index tag PB4Web: Scheduler action ShowDialog is not executed	
0	PB4Web: Improved view on Multistate frames	
0	PB4Web: SetTimeout action is not executed in template	
0	PB4Web: Shape with reduced opacity (0.7) generates a	
Ŭ	shadow on the label above	
0	PB4Web: Scheduler that executes a JS action is not	
	performed on web project	
0	PB4Web: Table widget Filter does not work with Columns	
	that support Multilanguage	
0	PB4Web: DataTransfer not working between client variables	
	and Tag	
0	PB4Web: Indexed tags in a dialog stop to work if we open a	
	second dialog	
	PB4Web: Mozilla Firefox cannot operate with touch PB4Web: corrected performances issues on access to Filter	
0	Table widget	
0	PB4Web: Toggle action on widget property does not work	
	correctly	
0	PB4Web: SetTrendView does not work if Max/Min are set to	
	0	
0	JM4Wweb: corrected behavior on project.getGroup() action	
0	PB4Web: Error message appears when TableWgt page is	
	loaded	
0	Runtime positioning on web dialog does not work properly	
0	PB4Web: Corrected group visibility behavior	
0	PB4Web: Actions not executed in dialog pages	
0	PB4Web: Non-modal dialog on web pages behave as modal but is not noted on validator	
0	PB4Web: Error Message when load the Home Page after	
	first time	
0	PB4Web: Table's Rows disappear when filter is complex	
0	PB4Web: Indexed tags are not initialized at the first opening	
	of dialog	
0	PB4Web: Corrected error after dbQuery	
0	PB4Web: adjusted visualization of specific widgets	
0	PB4Web: Non-Modal dialog not working on web pages	
0	PB4Web: Embeddable Font is not exported in web client	

0	PB4Web: Audit View returns warning if Page Duration is set	
	to All	
0	PB4Web: Corrected behavior of Show/Hide with Rows filter	
	in table widget	
0	PB4Web: Table's filter is not applied when the number of	
	rows is higher than 500	
0	PB4Web: Error when we load Home Page after a	
	setLanguage action	
0	Aligned DbResponse behavior from web and native	
0	PB4Web: specific project remains on loading and shows an error	
0	PB4Web: Indexed tags not working when used from dialog	
0	pages	
0	PB4Web: Web pages not loading on a specific project	
0	PB4Web: Load page is not executed when a non-modal	
0	Dialog is opened	
0	PB4Web: at first loading of Pages and Dialogs, they will	
-	refresh twice	
0	PB4Web: Delay of loading data on Table Page	
0	PB4Web: Javascript query separator cannot be	
	distinguished from same char inside results	
0	PB4Web: Corrected Table Filter behavior with specific field	
	value	
0	PB4Web: corrected behavior when closing dialog causing	
	screen freeze	
0	PB4Web - Access to different panels web pages trough port	
	forwarding causes alternate disconnection	
0	Accessing web page of a project results in stuck	
	visualization	
0	Grid layout vertical scroll is not working on web pages	
0	[PB4Web] Momentary button stays pressed when web page	
	is used from Mobile device	
0	Fixed initial password is broken in PB4Web	
0	Color palette doesn't work on the property background of	
Proto	web pages	
0	[MODS] Corrected serial data exchange in WCE targets	
0	[MODR] Adjusted behavior on node 0 inserting, to be	
0	applied only for UDP connections	
0	[BACN] max segments accepted error if device doesn't	
Ũ	handle segments	
0	[OPCU] Error while importing from Wago PFC200 (message	
	in the header too large)	
0	[ETIP] Write string data from recipe does not write String	
	LEN value	
0	[OPCU] Data type imported as null	
0	[CDS3] Device loses connection with CODESYS Workbench	
	under certain conditions	
0	[CAND] Import of DBC file does not take care of Mux info	
	start in frame	
0	[S7ET] Communication failed with CP1542SP Slot 2	
~	[ABBE] Tag Import erroneously from PLC file with tab (space	

 [ABBE] Tag Import erroneously from PLC file with tab/space character in the Tag Name

	0	[BACN] Communication error with specific BACnet device	
	0	[IR5L] IRC5 Linux protocol not starting in PB 4.5	
	0	[MODR] Server does not answer in TCP mode with Node ID 0	
	0	[ETIP] Communication error when reading multidimensional	
		arrays of structures	
	0	[ABBE] Tag Import erronealy from plc file with tab/space	
	-	character in the Tag Name	
	0	[MRTU] Reduce protocol communication gap - Case ID:	
	-	202200810	
	0	[MODR] Tags defined in Modbus TCP Server has	
		inappropriate ID in Tag URL	
	0	[ETIP] Communication error when reading multidimensional	
		arrays of structures	
	0	[IR5L] IRC5 Linux protocol not starting in PB 4.5	
	0	[MODR] Server does not answer in TCP mode with Node ID 0	
	0	[MODR] HMI runtime crashes with modbus server if	
		malformed packets are sent	
	0	[BACN] Communication error with customer BACnet device	
	0	[BACN] max segments accepted error if device doesn't	
		handle segments	
	0	[CDS3] Device loses connection with Codesys Workbanch	
		under certain conditions	
	0	[ETIP] Write string data from recipe does not write String	
		LEN value	
	0	[ETIP] Tags related with the servo drives are not imported-	
		Int64 types added	
	0	[IR5L] ABB IR5L boolean Tag not working anymore	
	0	[MODR] Tags defined in Modbus TCP Server has	
		inappropriate ID in Tag URL	
	0	[MODR] Runtime crashes when sending request with	
		random long strings(Introduce issue)	
	0	[MODR] Node Override for Modbus TCP Server with	
		possibility to disable node	
	0	[MODS] Different behavior between UN30 and UN31	
	0	[OPCU] Display App Uri Validation not correct	
-	Recipe	25	
	0	Corrected behavior when recipe download is executed on	
		string tags	
	0	Corrected behavior when recipe download is executed on	
		string with special chars	
	0	Recipe Field displays wrong data on screen	
	0	Writing more char in string recipe elements following	
		elements is overwritten	
	0	HMI executes more and redundant write data in plc when a	
		Tag array is used in Recipe	
-	Sched		
		Sunrise and Sunset wrong hour during summer time	
-	Securi	-	
	0	Login after Change Password in Login Page does keep the	
		Permission of the User Logged before	
	0	User forced to change initial password after editing another	
		user credentials	

	0	Group home page changed when changing FTP/HTTP	
		settings	
	0	Corrected behavior when accessing to USB and SD via FTP on specific hardware	
	0	Always ask for the encryption password when it is needed	
	0	HMI runtime crashes with modbus server if malformed	
	0	packets are sent	
_	Simula	•	
	0	Simulator is not closing when PB closed	
_	SQL		
	. 0	dbReadRecipes action returns Element not found on high	
		size recipes	
	0	Database query with Nchar and Nvarchar will not be	
		returned properly	
	0	Aligned DbResponse behavior from web and native	
-	Tags		
	0	Scaled array with fixed point does not write value properly	
	0	PB does not save Interfaces tag group selection	
	0	Tag editor Scaling problems when entering scaling factors	
		with decimal point	
	0	Usage of double array resets connection (device offline)	
-	Trend		
	0	[BACN] Corrected Simulator behavior using BACNetTrends	
	0	Corrected PLC Trend behavior in showing curves	
-	Widge		
	0	PB4Web: property Sorting for Alarm History Table does not	
		work	
	0	PB4Web: Group column in Alarm History widget is not shown	
	0	Reviewed not working RSS feeds widgets	
	0 0	TextTableFilter widget apply filter "0" when field is empty	
	0	Trend table duration not working properly when we set 4	
	0	weeks / ALL	
	0	Network configuration is not applied when the interface is	
	Ū.	with an AutolP	
	0	Improved Pinch event management on Scatter Chart widget	
	0	Browser widget scrollbars does not work	
	0	Corrected behavior when scrolling GridLayout causing	
		performances issues	
	0	Corrected PB behavior on continuous index flag of	
		combobox widget	
	0	ComboBox doesn't show communication error icon and	
		show wrong element with index data	
	0	Fixed behavior of IC Camera widget image polling	
	0	Reviewed minor icon graphic in new widget gallery	
	0	Corrected visualization issues on a custom alarm table	
	0	Boolean BACnet scheduler does not work properly	
	0	Table filter formula does not work at first time	
	0	Web browser widget keyboard is not working with the	
		runtime	
	0	Chart Widget's gesture event shows curves frozen	
	0	Combobox widget with empty data property	

$\circ$ Table widget with filter does not deactivate tags when filter	
changes	
$\circ$ Web Generation error when we just drag and drop the Tab	
widget	
<ul> <li>Custom Style property is not exposed for "TabBarWgt" by</li> </ul>	
default for style == Custom	
<ul> <li>Datalink initialization issue first layer stack widget</li> </ul>	
<ul> <li>Wgt javascript variables does not work properly inside stack</li> </ul>	
widget in custom widget	
<ul> <li>Data read for new chart widget is not stopped when page is</li> </ul>	
changed	
<ul> <li>The Chart widget trigger a user.notice pblauncher:</li> </ul>	
QFont::setPixelSize: Pixel size <= 0 (0)	
<ul> <li>PB hangs while resize new gallery trend widgets</li> </ul>	
<ul> <li>PB crashes when User Gallery folder is changed</li> </ul>	
<ul> <li>Delay while open the PB in pc with new gallery</li> </ul>	
<ul> <li>Layer widgets are not visible if we insert more than 3 nested</li> </ul>	
stack widget	
<ul> <li>Text Editor widget save file without extension and does not</li> </ul>	
recognize them in browse	
Known issues	Version
ABB Modbus RTU protocol with Model ABB AC31 Series 90 not	4.5.0.501
working: bugfix in preparation and available in the next version	
<ul> <li>Missing error message: It is not possible to download a Runtime</li> </ul>	
version lower than V4.5.0.x to a panel with BSP V1.3.x	