

CTI 2500-WB-USB Janus Workbench Revision History

NOTE: Installation of upgrades to Janus Workbench requires an active software license

Version 1.91
Release: 10May2023

Compatible with:

- 2500P-ACP1 Application Coprocessor (firmware V2.0 or later)
- Janus PAC Models:
 - Classic: 2500P-J450, 2500P-J750, 2500P-J850
 - Compact: 2500C-J350, 2500C-J450, 2500C-J750
- 2500P-JACP Janus Application Coprocessor

New Features and Enhancements:

- | | |
|--------|---|
| WB-139 | Add warning message about ZIP files in the project folder if "include all files" is check in Settings >Download |
| WB-267 | Camp Server improvements to support 2500/505 PID Loop and Alarm auto configuration and operation |
| WB-287 | Display version of OLC_DataMap in Help - About |
| WB-294 | Integrate V2.4 of Loop/Alarm library into Workbench |

Issues Resolved:

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|--------|--|
| WB-117 | Ethernet/IP Tag Server configuration offset error message incorrect |
| WB-198 | Profibus bus parameters displayed incorrectly when adding Profibus master |
| WB-266 | Workbench Ethernet/IP adapter accepts duplicate instance numbers with no error |
| WB-280 | Add post-compile message indicating how many client protocols are used |
| WB-292 | For CAMP Server Maximum Address for SI_DCP not Correct |
| WB-301 | Ethernet/IP Scanner build checks should detect Instance IDs not unique |

Internal Changes:

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|--------|---|
| WB-281 | Review OPC-UA build limits and compile checks |
| WB-295 | Integrate OLC_DataMap v1.18 into Workbench |
| WB-298 | Missing Details for some exes and dlls |

Version 1.89
Release: 6MAR2023

Compatible with:

- 2500P-ACP1 Application Coprocessor (firmware V2.0 or later)
- Janus PAC Models:
 - Classic: 2500P-J450, 2500P-J750, 2500P-J850
 - Compact: 2500C-J350, 2500C-J450, 2500C-J750
- 2500P-JACP Janus Application Coprocessor

New Features and Enhancements:

Updated Online Help (V2.68)

Updated Documents Installed to \Tutorials:

- Janus Controller Installation and Operations Guide V1.13
- Janus Controller Quick Start Guide V6
- 2500P-ACP1 Installation and Operation Guide V2.04
- CTI Series 505 Library User Manual V3.01
- 2500P-JACP Installation and Operations Guide V0.6
- Janus Controller Quick Start Guide V1.0
- Workbench Samples Guide V2.3
- OPC-UA Server Certificates Creation Guide V1.2
- Using the UaExpert Test Client with Janus OPCUA Server V1.1
- 2500P-JACP Quick Start Guide V1.0

WB-133: Improve CAMP Client configuration level 3 field name to “Number of 16-bit items”

WB-173: Improvements to Block Transfer driver configuration DLL

WB-177: Add 2500P-JACP product feature compile checks

WB-219: Updated CTI 505 Library with improved comments and new user manual

WB-242: Install CTI 505 V8 Library with Workbench installation

WB-258: Improve OPC-UA Server post-compile configuration checks

WB-269: Install CTI 505 V9 Library with Workbench installation

WB-271: Install the Alarm_PID V2.2 and V2.3 files to folder
C:\Users\Public\Documents\Control Technology\CTIWorkbench\HowTos when
Workbench installs

WB-243: Include latest OPC-UA Server configuration DLL from Straton V11

WB-277: Integrate Online Change DataMap V1.16 into Workbench

Issues Resolved:

- WB-194: For Block Transfer, allow status variables for Control Relay blocks to be of type INT
- WB-195: Only allow Block Transfer OR Data Cache on 2500P-JACP projects
- WB-196: Don't allow Data Cache time slice value < 5ms
- WB-213: Workbench allows more than one block disable variable for Block Transfer
- WB-216: Correct auto-generate configuration issues with Block Transfer
- WB-225: Set Profibus Minimum Slave Interval based on baud rate
- WB-226: Improve error message if a user tries to enable both Block Transfer and Data Cache
- WB-227: Block Transfer data blocks set to "Read from PLC" by default
- WB-236: Add the 505 PID/Alarm templates to the Workbench installation
- WB-244: Add "Janus Application Coprocessor" folder for JACP-fieldbus configuration
- WB-247: Correct offset renumber problem on Data Cache
- WB-248: Remove post-compile EIP Scanner validation check for unique message instance IDs
- WB-249: Correct problem where Workbench shuts down when doing OLC with EIP Adapter and project has a data structure with no elements
- WB-254: Added sample projects to Demo Projects pane
- WB-255: Remove legacy "online change enabled/disabled messages"
- WB-263: Change default to "selected" for download source code
- WB-274: Add Existing Project from Target does not revert a variable's type
- WB-279: Add 2500P-JACP Quick Start Guide to Workbench Help > Tutorials
- WB-283: Skip OPC-UA Server configuration password post-compile checks if the password is not configured

Version 1.82
Release: 18MAY2022

Compatible with:

2500P-ACP1 Applications Co-processor Firmware V2.0 or later

Janus PAC models:

Classic: 2500P-J750 (v1.20 or greater), 2500P-J450 (firmware V1.20 and greater),

Compact: 2500P-C750 and 2500P-C350 (firmware V1.20 and greater)

New Features and Enhancements:

Updated Online Help (V2.53)

Updated Janus Installation and Operations Guide (V1.12a).

WB-171: Added OPCUA server configuration DLL and security features.

WB-201: Added capability to display project name within Workbench.

WB-204: Add the CTI 505 instruction library (V7) to the Workbench install.

Issues Resolved:

WB-161: INTERNAL

WB-165: INTERNAL

WB-173: INTERNAL

WB-179: Added Workbench Digital Licensing topic to Workbench help.

WB-181: Added warning that the old keylock FOB should be removed when Digital License is activated.

WB-184: INTERNAL

WB-185: Created instructions for Workbench site license activation.

WB-187: INTERNAL

WB-190: INTERNAL

WB-192: Resolved issue where changes to Profibus Level1 properties were not displayed.

WB-194: INTERNAL

WB-197: Improved error checking for CTI Enhanced Data Cache for drum memory data types.

WB-200: Resolved an issue where the project IP port number always defaults to 502 when a new project is created. It will now default to the last IP address and port number used.

WB-206: Increased the size of Modbus RTU serial "Com. port" parameter to accommodate larger port configuration strings.

WB-208: INTERNAL

WB-211: INTERNAL

WB-212: INTERNAL

WB-214: Modified the CTI_GETSYSTIME to return a UDINT instead of a DINT.

WB-217: Improved error checking for EIP Tag Server "Tag Name" parameter

Known Issues:

HTML Data Server (visualization) downloads to export graphic files to the files to the Janus PLC is not working. Contact CTI for work around instructions.

Online Change will incorrectly report standard PACK16, PACK32, UNPACK16, and UNPACK32 function blocks as changed.

Version 1.78
Release: 26JAN2022

Compatible with:

2500P-ACP1 Applications Co-processor Firmware V2.0 or later

Janus PAC models:

Classic: 2500P-J750 (all firmware versions), 2500P-J450 (firmware V1.20 and greater)

Compact: 2500P-C750 and 2500P-C350 (firmware V1.20 and greater)

New Features and Enhancements:

Updated Online Help (V2.48)

Updated Janus Installation and Operations Guide (V1.11)

Updated Janus Quick Start Guide (V5)

WB-176: Add a digital site license option for Janus Workbench

Issues Resolved:

WB-174 Corrected issue in Version 1.76 that caused an older online change option to re-appear in project settings.

WB-178: Corrected issue where CTI Product Options shortcut erroneously opened SCL editor.

WB-180: CTI internal issue

Version 1.76
Release Date: 20DEC2021

Compatible with:

2500P-ACP1 Applications Co-processor Firmware V2.0 or later

Janus PAC models:

Classic: 2500P-J750 (all firmware versions), 2500P-J450 (firmware V1.20 and greater)

Compact: 2500P-C750 and 2500P-C350 (firmware V1.20 and greater)

New Features and Enhancements:

Updated Online Help (V2.47)

Updated Janus Controller Installation and Operation Guide (V1.10)

WB-155 Add Ethernet/IP FLEX™ I/O to the list of supported Janus PAC fieldbus drivers

Version 1.74
Release Date: 23SEP2021

Compatible with:

2500P-ACP1 Applications Co-processor Firmware V2.0 or later

Janus PAC models:

Classic: 2500P-J750 (all firmware versions), 2500P-J450 (firmware V1.20 and greater)

Compact: 2500P-C750 and 2500P-C350 (firmware V1.20 and greater)

New Features and Enhancements:

Updated Online Help (V2.41)

Updated Janus Controller Installation and Operation Guide (V1.05)

WB-149 Updated Janus Workbench to Straton V10.0

WB-157 Added support for new Janus PAC models:

Classic model: 2500P-J450 and Compact models: 2500C-J350 and 2500C-J750

WB-166 Increased number of starts in (unlicensed) 'Demo Mode' from 15 to 30

Issues Resolved:

WB-130 Fieldbus node is now removed if cancelled before node properties are entered. Previously, a default node ID was inserted into the fieldbus configuration.

WB-159 Auto-configuration of Janus Compact Analog modules now generates UINT data type for output variables used for module configuration.

WB-163 Behavior of Workbench CRC generator changed to independently compute CRC for variable data so CTI Online Change operation can detect when fieldbus configuration change only involved number of variables.

WB-164 CTI internal issue

Version 1.70
Release Date: 29APR2021

Compatible with:

2500P-ACP1 Applications Co-processor Firmware V2.0 or later
2500P-J750 Janus Processor – all firmware versions

New Features and Enhancements:

Updated Online Help (V2.39)

Updated Janus Controller Installation and Operation Guide (V1.04)

Updated Janus CPU Quick Start Guide (V4)

Added SMTP Email Delivery sample application (works in Simulator, ACP1, and Janus CPU)

Updated CTI Module list for Local I/O and Remote I/O to include 2550-A, 2555-A, 2556-A, and 2557-A Advanced Modes (WB-136)

Removed post-compile check for Janus applications to count the number of "embedded symbol" variables. Previously, the J750 CPU was limited to 256 variables. This change allows Web Visualization and Zenon STRATON-NG driver to access all project variables (WB-152).

Updated Ethernet/IP Tag Client configuration (V10.0).

Increased maximum size for a single variable array from 500 bytes to 2000 bytes in EIP Tag Client and EIP Tag Server (Janus CPUs only). ACP1 limit remains at 500 bytes.

Issues Resolved:

WB-137 Workbench crashes during compile of applications with UDFB and user-defined structure variables set as RETAIN variables.

WB-140 Janus Workbench intermittently reverts to 'Demo Mode'.
Modified OEM Straton License manager to re-apply valid license on every Workbench startup.

WB-141 Remove "Open I/Os" from drop-down menu displayed when you right-click on a variable.

WB-143 Workbench crashes with no error message during Online Change operation.
Updated OLC_DataMap generator (V1.11) to add support for 'Bit Field' and 'Enumeration' data types within UDFB or user-defined structure.

WB-145 Profibus Configuration rejected by Janus Profibus Master
Added validation checks to ensure only valid Bus Parameter values are sent to Profibus Master stack (Janus CPUs only).

WB-147 CAMP Server auto-generate configuration fails.
Modified code to skip over data types that are not valid for any CAMP Server variable (i.e. STRING, Function Blocks, and user-defined data types).

WB-150 Workbench crashed during compile of SFC application with user-defined types.
This was caused by an error in the "embedded symbols" variable counting routine - which is now removed (see WB-152).

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Version 1.61
Release Date: 4JUNE2020

Compatible with:

- 2500P-ACP1 Applications Co-processor Firmware V2.0 or later
- 2500P-J750 Janus Processor

New Features and Enhancements:

- Official introduction of Janus Workbench with new logo added to splash screen and start page.
- Added 'Recent Project History' list to start page.
- Updated Online Help (V2.34)
- Updated Janus Controller Installation and Operation Guide (V1.01)
- Added Janus CPU Quick Start Guide

Version 1.59
Release Date: 29APR2020

Compatible with:

- 2500P-ACP1 Applications Co-processor Firmware V2.0 or later
- 2500P-J750 Janus Processor

New Features and Enhancements:

Many new features in support of Janus Processor

- Detects Janus Processor in CTI Product Options – Auto-Detect
- Configuration of Local I/O and Remote I/O (Janus Processor only)
- Configuration of Profibus I/O (Janus Processor only)
- Enhanced Data Cache Client (Janus Processor only)
- Configuration of Ethernet/IP Tag Server (Janus Processor only)
- Configuration of CAMP Server including auto-generation wizard (Janus Processor only)
- Enhanced On-Line Change (Janus Processor only)
- Support of HTTP Data Server for displaying animated graphics in a web browser (Janus Processor only)
- Comprehensive Online Help for Janus Processor

Version 1.26
Release Date: 15FEB2019

Compatible with:
2500P-ACP1 Applications Co-processor Firmware V2.0 or later

New Features and Enhancements:

Updated to Straton V9.2 editor which added the following features:

- Support for Dynamic Memory Allocation and Management of Text Buffers
- Functions to read/write arrays to file
- Functions supporting Ethernet/IP Explicit Message command
- Integrated version control with SVN
- Enhanced search generating "Find in Files" report

Added MQTT Client configuration utility

Updated sample programs, tutorials, and ACP1 User Manual

Updated Online Help

Updated CTI Product Options 'Runtime Status' to include MQTT Client, Invalid Array Index, and Scan Cycle Overrun status

Issues Resolved:

1332: Corrected calculation of size of RETAIN variables when using 2-dimension and 3-dimension arrays

Version 1.8
Release Date: 15SEP2016

Compatible with:
2500P-ACP1 Applications Co-processor Firmware V2.0 or later

New Features and Enhancements:

Updated to Straton 9.0 build #2

Changes to K5Help file and K5Help.INI (linkage file)

Installer compression changed to LZMA to reduce file size

Issues Resolved:

1236: Automatic creation of large blocks of variables with Modbus or Data Cache could hang CTI Workbench.

Version 1.6
Release Date: 09JUN2016

Compatible with:
2500P-ACP1 Applications Co-processor Firmware V2.0 or later

Issues Resolved:

1210: Removed "I2C" and "SNMP" functions from the list of functions and function blocks supported by the 2500P-ACP1.

Version 1.5
Release Date: 26MAY2016

Compatible with:
2500P-ACP1 Applications Co-processor Firmware V2.0 or later

New Features and Improvements:

- 1193: Improved validation of CTI Workbench compiler version and 2500P-ACP1 firmware version to insure compatibility. Data entry of ACP1 firmware version is now standardized using xx.yy notation (xx = Major Version / yy = Minor version).
- 1203: Changed default for maximum processing time used by CTI 2500 Series CPU to process ACP1 Data Cache messages from 5 msec to 10 msec. This setting allows faster response when large Data Cache configuration is implemented in the ACP1. The PLC uses only the time actually required for processing the Data Cache requests, and this value can be modified by the user if desired.

Any change in dialog box selected from 'Tools' menu marks the project as "modified" so the project will be rebuilt if "Build-All" option is selected.

Updated the following documentation files: Online Help, 2500P-ACP1 User Manual, and FTP Server Installation Guides for Windows-XP and Windows 7.

Added new sample programs for Ethernet-IP I/O Scanner, I/O Adapter Tag Client, and TCP/UDP client/server applications. Updated Sample Programs Guide to include descriptions of these programs.

Issues Resolved:

1195: Corrected variable offset verification for the CTI 2500 Data Cache interface to support a total of 4096 variables within a single Data Block.

Version 1.4
Release Date: 28APR2016
Limited Release Version

Compatible with:
2500P-ACP1 Applications Co-processor Firmware V2.0 or later

New Features and Improvements:

- 1170, 1173: Added TCP/UDP management functions that can be used for building client and/or server applications for Ethernet communications using custom (user generated) protocols. These functions are supported in the 2500P-ACP1 firmware V3.07 and later.
- 1177: Various updates to CT Workbench, including enhancements to the “look and feel” of the user interface, use of Visual Studio 2015 support package, and limiting O/S support to currently supported Microsoft products (Windows Vista/7/8/8.1/10).
- 1152, 1190: Added function to automatically ‘Renumber Offsets’ for variables inserted into Data Blocks for CAMP Client and CTI 2500 Data Cache communications.

Updated following documentation files: Online Help

Issues Resolved:

- 1160: No longer allow leading zeros in IP Address entries since most Windows-based system use a “0” to represent octal-notation number.
- 1153: Corrected validation of range allowed for a User-Specific Assembly Object “Class ID” object to match the ODVA CIP Specification (100-199 and 768-1279 decimal).

Version 1.3
Release Date: 20AUG2015

Compatible with:
2500P-ACP1 Applications Co-processor Firmware V3.03 and earlier

Issues Resolved:

- 1146: Data cache compiler error when using REAL data types

Version 1.2
Release Date: 03AUG2015

Compatible with:
2500P-ACP1 Applications Co-processor firmware V3.03 and earlier

New Features and Improvements:

Added fieldbus configuration support for ACP1 Ethernet/IP interfaces: I/O Scanner, I/O Adapter, Explicit Message Adapter, and Tag Client.

Updated on-line help system and 2500P-ACP1 User Manual in Tutorials section.

Updated FTP Server Installation and Setup Instructions in Tutorials section.

Issues Resolved:

1070: Added new syntax check for CTI Data Cache interface to prevent reuse of the same PLC address by two different project variables.

1072: Corrected intermittent problem that caused ACP1 remote firmware update to hang with error message "Failed to receive full T5 Message (Request#2, Error#4).

1077: Added compiler syntax checks to prevent invalid configurations for the CTI Data Cache interface.

1081: Corrected Product Number in "About" box.

1089: Added "Renumber Offsets" option to CAMP Server fieldbus configuration section.

1095: Corrected problem with executing UDFBs written in SFC language.

1115: Corrected calculation of bytes supported in RETAIN variable count.

Version 1.1
Release Date: 09OCT2014

Compatible with:
2500P-ACP1 Applications Co-processor V2.06 and earlier

Initial Product Release