

CTI 2500-WB-USB Janus Workbench

Revision History

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

Version 2.19
Release: 17SEP2026
ECO#936

Products Affected:

2500P-WB-USB - Product Revision 17
2500P-WB-USB-S3 - Product Revision 18
2500P-WB-USB-S6 - Product Revision 18
2500P-WB-USB5 - Product Revision 17
2500P-WB-USB10 - Product Revision 17
2500P-WB-USB25 - Product Revision 17
2500P-WB-DIG - Product Revision 7
2500P-WB-DIG5 - Product Revision 7
2500P-WB-DIG10 - Product Revision 7
2500P-WB-DIG25 - Product Revision 7

Compatible with:

- 2500P-ACP1 Application Coprocessor (firmware V2.0 or later)
- Janus PAC Models (**firmware V1.28 or later**):
 - Classic: 2500P-J450, 2500P-J750, 2500P-J850
 - Compact: 2500C-J350, 2500C-J450, 2500C-J750
- 2500P-JACP Janus Application Coprocessor

Issues Resolved

WB-423 Workbench V2.18 "Download" button sometimes fails to download a new program to JPLC V1.28

Version 2.18
Release: 17AUG2026
ECO#935

Products Affected:

2500P-WB-USB - Product Revision 16
2500P-WB-USB-S3 - Product Revision 17
2500P-WB-USB-S6 - Product Revision 17
2500P-WB-USB5 - Product Revision 16
2500P-WB-USB10 - Product Revision 16
2500P-WB-USB25 - Product Revision 16
2500P-WB-DIG - Product Revision 6
2500P-WB-DIG5 - Product Revision 6
2500P-WB-DIG10 - Product Revision 6
2500P-WB-DIG25 - Product Revision 6

Compatible with:

- 2500P-ACP1 Application Coprocessor (firmware V2.0 or later)
- Janus PAC Models (**firmware V1.28 or later**):
 - Classic: 2500P-J450, 2500P-J750, 2500P-J850
 - Compact: 2500C-J350, 2500C-J450, 2500C-J750
- 2500P-JACP Janus Application Coprocessor

New Features and Enhancements:

WB-383	Add new 2562-A with 2 logins to Local I/O and Remote I/O in Workbench
WB-385	Change the way Workbench handles I/O modules to make it more flexible for future changes and additions
WB-386	Use "ModuleID" (like PROFINET) in identifying modules for Local and Remote IO
WB-413	Update OLC Map File to V1.20

Issues Resolved:

WB-351	Workbench help text typo in CTI_PLC_STATUS Bit 0 should be "Local I/O Active"
WB-374	Update unsupported function blocks in Workbench and HELP
WB-379	Selection of user parameters not working properly on Profibus GSD file ifm10DBB.gsd
WB-393	Update Workbench HELP to warn user not to change stop / download / online change prompts in Project Settings
WB-403	Add Check for Blank "Our IP address" Field in Ethernet/IP Configurations
WB-418	Build Workbench HELP file without Profinet topics

Internal Changes:

- WB-302 Failed assertion when doing online change in Debug Mode. NOTE: this is an internal development change only
- WB-399 Remove SMTP sample code from the Workbench Samples files
- WB-402 Unable to edit Tag Sever variable at level 4 of the driver configuration. Works as designed.
- WB-412 Current Workbench prototype build unable to connect to JPLC V1.28 (current customer release)

Version 2.17
Release: 16OCT2024
ECO#893

Products Affected:

2500P-WB-USB - Product Revision 15
2500P-WB-USB-S3 - Product Revision 16
2500P-WB-USB-S6 - Product Revision 16
2500P-WB-USB5 - Product Revision 15
2500P-WB-USB10 - Product Revision 15
2500P-WB-USB25 - Product Revision 15
2500P-WB-DIG - Product Revision 5
2500P-WB-DIG5 - Product Revision 5
2500P-WB-DIG10 - Product Revision 5
2500P-WB-DIG25 - Product Revision 5

Compatible with:

- 2500P-ACP1 Application Coprocessor (firmware V2.0 or later)
- Janus PAC Models (**firmware V1.28 or later**):
 - Classic: 2500P-J450, 2500P-J750, 2500P-J850
 - Compact: 2500C-J350, 2500C-J450, 2500C-J750
- 2500P-JACP Janus Application Coprocessor

New Features and Enhancements:

CDF-37	Fieldbus Partial Disable
CDF-69	Can't see long pathnames in library configuration
DOCS-201	Update HELP to describe variable lock feature for SCADA use
DOCS-202	Improve the "Binding Configuration Editor" HELP text
DOCS-203	Add HELP page for Field I/O right click menu pop up
DOCS-205	Workbench HELP Variable Editor missing HELP on Force/Lock/Unlock
DOCS-209	Add more clarity in HELP on the EIP Tag Client and Server tag naming rules/requirements
DOCS-212	Update Certificates Tutorial for error in help text
DOCS-214	Update Workbench HELP for Online Change function block restrictions due to improvements
DOCS-216	Add information about "only one" Workbench connected to HELP
DOCS-217	Update HELP for OPCUA "Certificate" selection under Level 1 Authentication settings
DOCS-225	Update HELP to clarify the maximum connections to a camp server
DOCS-226	Update HELP with changed Project Settings option name
DOCS-228	Document HELP with Online Change Additional Information
DOCS-229	Update OPCUA server certificate tutorials so it's easier for the user to get this working

WB-139	"Source code Download" should warn user about zip files in the project folder
WB-183	Allow "disable" of field I/O level 2 and 3 (Master/Port and Data Block) for field I/O
WB-245	Upgrade CTI Workbench to the latest Straton Automation Editor V11.0b2 (then V12b2) repair release
WB-257	Add support for both the 2500P-J450 and 2500C-J450 product models
WB-259	Add support for the 2500P-J850 in Workbench
WB-308	New instructions PACK_FROM_505 and PACK_TO_505 added to 505 Instruction Library V10
WB-311	Improve error message for an Integrator dongle key that has expired
WB-321	Add new PID Loop tutorial to the Workbench installation
WB-334	Migrate Workbench to Straton V12b2
WB-338	Add ability to get a list of forced variables to a SCADA System
WB-339	Updates needed to CTI Compact I/O module selection list (LIO and RIO)
WB-378	Update Workbench tutorials with new OPC certificate tutorial

Issues Resolved:

CDF-42	HTML Data Server - allow old T5 download to target for visualization
CDF-48	Editing variables with find/replace causes Fieldbus list to display "LVL1"
CDF-56	LD rungs containing no elements will cause Workbench to silently crash
CDF-58	Workbench integration with SVN allows editing variable description when variables are locked
CDF-59	CLONE - OPC UA Server doesn't enforce "MaxDataChanged Value per Monitored Item" queue size limits
CDF-64	Online Change does not handle internal function block data that contains a pointer
CDF-65	Locked variables table in CTI Workbench does not handle arrays
CDF-68	Workbench allows an expression on a coil in RLL
CDF-70	Straton does not allow for handling of LIFO/FIFO function blocks during Online Change
CDF-82	Bad behavior after some Online change manipulations
WB-207	HTTP Data Server HELP does not match new Straton release
WB-261	Check that tag names are unique in EIP Tag Server configuration
WB-268	Workbench crashes when opening 16th program for editing
WB-300	"Our IP address" is required when configuring EIP scanner, but project compiles without error if this address is not entered
WB-307	CTI Product Options Type list does not include 2500C-J850
WB-314	Workbench Install Allows Default Folders to Be Changed
WB-322	Online Status shows 'Version Mismatch' after completing Online Change

WB-326	Online change fails to copy some unchanged variables with Workbench V2.00
WB-332	Online Change Show All Variables checkbox wanders off screen and is lost
WB-337	Workbench compiler warning count incorrect
WB-343	Changing a Variable Type from STRING to WSTRING Crashes Online Change
WB-349	Configurations Disabled At Levels Below Level 1 Not Taken Into Account Durring Post-Compile Checking
WB-350	Enhanced Data Cache Does Not Check For IP Addresses Starting With Leading Zeroes
WB-356	Workbench does not check for valid UDP Multicast addresses for CAMP Client
WB-369	Online Change - Using Large project and performing Online Change Error Pop up and Workbench hangs up
WB-375	User warning that Online Change with ACP1 is not supported requires downloading application

Internal Changes:

CDF-50	List bitfield types and variables in APPLI.SYB
WB-320	Workbench integration of Straton V12 b1 seems incomplete
WB-342	Integrate OLC_DataMap V1.19

Version 1.91
Release: 10MAY2023
ECO# 843

Products Affected:

2500P-WB-USB - Product Revision 14
2500P-WB-USB-S3 - Product Revision 15
2500P-WB-USB-S6 - Product Revision 15
2500P-WB-USB5 - Product Revision 14
2500P-WB-USB10 - Product Revision 14
2500P-WB-USB25 - Product Revision 14
2500P-WB-DIG - Product Revision 4
2500P-WB-DIG5 - Product Revision 4
2500P-WB-DIG10 - Product Revision 4
2500P-WB-DIG25 - Product Revision 4

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 Setttings >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:

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:

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
ECO# 825

Products Affected:

2500P-WB-USB - Product Revision 13
2500P-WB-USB-S3 - Product Revision 14
2500P-WB-USB-S6 - Product Revision 14
2500P-WB-USB5 - Product Revision 13
2500P-WB-USB10 - Product Revision 13
2500P-WB-USB25 - Product Revision 13
2500P-WB-DIG - Product Revision 3
2500P-WB-DIG5 - Product Revision 3
2500P-WB-DIG10 - Product Revision 3
2500P-WB-DIG25 - Product Revision 3

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
ECO# XXX

Products Affected:

2500P-WB-USB - Product Revision 12
2500P-WB-USB-S3 - Product Revision 13
2500P-WB-USB-S6 - Product Revision 13
2500P-WB-USB5 - Product Revision 12
2500P-WB-USB10 - Product Revision 12
2500P-WB-USB25 - Product Revision 12
2500P-WB-DIG - Product Revision 2
2500P-WB-DIG5 - Product Revision 2
2500P-WB-DIG10 - Product Revision 2
2500P-WB-DIG25 - Product Revision 2

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
ECO# 756

Products Affected:

2500P-WB-USB - Product Revision 11
2500P-WB-USB-S3 - Product Revision 12
2500P-WB-USB-S6 - Product Revision 12
2500P-WB-USB5 - Product Revision 11
2500P-WB-USB10 - Product Revision 11
2500P-WB-USB25 - Product Revision 11
2500P-WB-DIG - Product Revision 1
2500P-WB-DIG5 - Product Revision 1
2500P-WB-DIG10 - Product Revision 1
2500P-WB-DIG25 - Product Revision 1

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