

SPT4-NET Editor Change History
July 27, 2011

Release	Area	Changes
3.0.07	CDC Type 1	Allowed point address entry in entire 0x00 to 0xFF range, not just default point-type range (such as 0x80 to 0xFF for analogs)
3.0.09	Editor	Added ability to import and export Excel files in comma-separated-values (csv) format Added ability to enter device names. Used for clarity of data presentation
3.0.10	Harris	Added Harris Master protocol
3.0.11	Telegyr 8979	Added option to transmit a RTU Configuration command during initialization
3.0.15	Indactic 33/41	Added Indactic 33/41 Master protocol
3.0.16	Redac 70H	Added option for two forms of setpoint processing
3.0.17	Rockwell 5020	Added support for Rockwell 5020 master protocol
	Redac 70H	Added Redac formatting for setpoint outputs
	S/Comm 11.1	Added support for S/Comm 11.1 master protocol
3.0.18	Rockwell 5020	Added raise/lower
3.0.24	Rockwell 5020	Fixed the COS logic
	Getac SDLC	Added new Protocol
3.0.25	Rockwell 5020	Fixed problem with greater than 84 COS points
3.0.26	Rockwell 5020	Added in extra Scan properties – Fixed network dialog – networking with previous revisions
3.0.34	Rockwell 5020	Expanded digital outputs from 8 to 16 groups. New groups use function modifier 5
	“To RTU” Protocols	Added two calculated digital input (internal indication) points that can be mapped for reporting as a digital input <ul style="list-style-type: none"> • Comm fail: set if all analog and digital inputs are invalid or offline • Sensor fail: set if at least one analog or digital input is invalid or offline
	“From Master” Protocols	Added a calculated digital output point that is set when no master requests are received for a prolonged period of time, and reset on subsequent reception of several valid messages. This can be mapped to trigger a RTU control output.
3.0.35	IEC 870-5-104	Added new properties
3.0.37	Rockwell 5020	Changed point numbering per PEPCO recommendations. Rockwell 5020 configuration files created with an earlier editor will not be useable by online release levels 3.0.37 or later.

3.0.41	Rockwell 5020	Added "Link By Position" for Rockwell 5020 RTUs
3.1.2	Indactic 33/41	Added Indactic 33/41 slave protocol
3.1.3	IEC 870-5-101/4	Corrected bug editing of IEC 870-5-101/4 "To RTU" protocol that was introduced in release 3.1.2
3.1.7	All	Added Internal "Communication" counters that can be mapped and reported as analog inputs
3.1.14	DNP3	For RTU Simulation mode (From Master) added abilities to: <ul style="list-style-type: none"> • Set source address at the device node, and • Report unavailable data with either CommLost or Offline quality codes
3.1.16	Conitel	Added slave versions for 2100B, 2100H, and 2100M
3.1.19	All	Added IdleFail and IdleAction (see documentation)
	IEC 870-5-101/4	Added Regulating Step Command and Step Position ASDU Types
3.1.20	All	Added invert capability for binary output points. See documentation for more information.
3.1.24	All	Added ability to set initial value for unlinked analog input points
	Getac/ Betac	Added new protocols: Getac (and Betac) 7020/4-BCH slave
3.1.25	DNP3	Allowed network ports other than 20000
3.1.27	Telegyr 6500	Add support for Telegyr 6500 "To RTU" protocol
3.1.28	DNP3	Added properties to control frequency of unsolicited data transmissions
	MCP2	Added new protocols: MCP2 Master
3.1.29	MCP2	Cosmetic changes for pulse point names
3.1.31	DNP3	Added FastScan property to support accelerated scans after control operations
3.1.32	Modbus	Added option to retry setpoint outputs
3.1.34	Modbus	Added option to reverse bytes and words of floating point values
3.1.35	All	Added option to respond to scan requests even when valid data is unavailable
3.1.37	All	Added engineering units and state names to web browser display
3.1.38	All	Added Modulo function for analog reporting
3.1.41	DNP3	Added support for latching relays
3.2.3	All	Improved download time for large files
	DF1	New protocol
	Conitel	Added option for sign and magnitude analogs
3.2.4	Modbus	Added option to specify analog encoding types
3.2.5	All	Added copy and paste
3.2.6	Some	Corrected recently introduced problem with automatic linking of digital output points
3.2.7	All	Corrected copy and paste when applied to a file uploaded from the SPT4-NET
		Corrected download of point names
		Propagated display of yellow "point linked" color to the device and channel levels

3.2.8	Sutron	Added new protocol, Sutron, similar to Modbus but with custom extensions
3.2.11	IEC 870-5-101	Corrected problem dropping IEC 870-5-101/104 data link node on another protocol
	Protocols with groups	Corrected problem dropping protocols onto protocols that support groups
3.2.12	IEC 870-5-101/04	Added options for persistent and momentary outputs
3.2.13	IEC 870-5-104	Added list of acceptable host IP addresses
	Conitel	Maintains group structure during copy/paste operations
	Telegyr 6500	Added support for more than eight pulse accumulators per RTU
3.2.14	General	Added support for NTP (Network Time Protocol)
	Sutron	Added support for quality codes and status input indexing
3.2.15	Sutron	Added additional properties
	RP570	Added properties for master version
	DNP3	Corrected settings for Change Poll for Class 1 data
3.2.16	IEC 870-5-101 and 104	Genuine/substituted time
		DI association to control point for control termination
		Interlock to synchronize controls across object
	CDC 1 and 2	Option to block ON control to point already in ON state
		Allow point X/Y addresses to be outside of the documented CDC ranges
3.2.19	RP570	Finished properties for RP570 master
3.2.20	Recon	Added Recon 1.1 slave protocol
3.2.22	ASW	Added ASW LS RTU master protocol
3.2.23	Annunciator Panel	Added properties to support the annunciator panel
3.2.24	All	Added link by position
3.2.25	All	Sorts point ID on file load
3.2.26	Tejas 5 Slave	Added new protocol
3.2.27	Conitel	Allow mapping of digital points at the bit level
3.2.28		No release, skipped from 3.2.27 to 3.2.30
3.2.29		
3.2.30	DNP3 and Modbus	Allowed entry of acceptable host IP addresses for RTU simulation over a network
	DNP3	Allowed assignment of individual points to scan classes. Prior releases allowed assignment at object group level only
3.2.31	Modbus/TCP Master	Added "Permanent" property at Network Port level. If True, SPT4-NET will not disconnect between polls
3.2.32	DF1	Added "Binary Input Card" and "Analog Input Card" objects
3.2.33	All	Added ability to map least significant or most significant bits of a counter
	DF1	Added control output and input card types
3.2.34	DF1	Misc changes
3.2.38	All	Added "Use Last Value" and "Use Invalid Analog value" as options for reporting unavailable data

3.3.1	All	Added support for SPT-PC
3.3.3	IEC 870-5-104	Added support for reverse direction
3.3.4	None	Internal release only
3.3.5	CDC2 Slave and DNP3 Master	Added "Correct Time" property to obtain year and month information from DNP3 device prior to sending a "time sync" message. This information is missing from the CDC2 time sync message
	IEC 870-5-104	Moved many protocol parameters to Datalink layer
3.3.6	CDC2 Slave	Added option to include SOE header in Scan 1/2/3/3X responses with SOE Size set non-zero, but no SOE points to report
3.3.8	Rockwell 5011 Master	Added new protocol for normal and PSI versions
3.3.9	SCADA Consultants Slave	Added new protocol
3.3.10	IEC 760-5-104	Added NUC extensions
3.3.12	CDC Type 2 Master	Added 32-bit accumulators
3.3.17	Sutron, IEC 870-5-104, Protocol Bridge	Enhanced to support IEC 870-5-104 NUC extensions and other processing requirements for Norwegian applications
3.3.20	IEC Master	Added trigger conditions to counter interrogation requests
3.3.21	IEC	Added <ul style="list-style-type: none"> • Ability to set Cause Of Transmission on "To RTU" side. Points set to "Periodic Cyclic" are not required to be returned in response to a general interrogation • Support for Mode:A Integrated totals • Broadcast Application Layer Test messages
3.3.23	All	Correct support of the Synchronous property at the SPT node
3.3.24	IEC 870-5-104	Added NUC option. Currently, this option (if set) will require time-stamped controls. Other dependencies may be added in the future
3.3.26	IEC 870-5-101 and 104	Added support for control activation termination events
3.3.27	IEC 870-5-101 and 104	Added Synchronize property for parameters
3.3.29	Modbus	Added support for synchronized controls
3.3.36	Harris	Added support for reporting offline port status
3.3.37	IEC	Reinstated ability to link parameter to measured value (analog)
3.3.39	IEC	Corrected linkage of command points to requests
3.4.0	DNP3 and CDC type 2	Added support for redundant lines. Support can be extended to other protocols
3.4.21	All	Added ability to not respond to any request if lower devices are in comm. Failure conditions. Prior release supported this ability only on responses containing point data

3.4.22	Weston Recon 1 Master	Corrected options that allowed selection of parity
	Rainwise Master	New protocol
	Getac LP Master	New protocol
3.4.26	Rainwise Master	Added 'G' command
3.4.27	All	Added invert property for binary input points at the object and point levels, and for binary output points at the point level
3.4.29	IEC 870-5-104	Added option to send commands with or without time
	All	Removed object number from data base tree
3.4.31	CDC Type 1, Telegyr 8979	Added option to enable listening mode
3.4.34	All	<ul style="list-style-type: none"> • Add persistency to File/tftp and File/capture options. The checked status will remain persistent over consecutive executions • Added 'f' option to specify a configuration file to be loaded at startup, when started from a command prompt
3.4.35 to 3.4.37	N/A	No editor release for corresponding sptemb or sptpc releases
3.4.38	All	Added name property at the line level
3.4.40	All	Added "Terminal Server" device type for serial protocols
	Rockwell 5011	Allowed up to 126 analogs and pulse accumulators per group. Prior limit was 62.
3.4.41	All	Added enable/disable flag
3.4.43	CDC and Conitel	Added InitialValue property at bit (DI) level
3.4.47	All	Enhanced logging capabilities including ability to suspend logging and to limit logging to a selected set of lines
3.4.48	DNP	Added ability to set CommLost status based on the state of a digital input
3.4.49	Terminal Servers	Corrected problems with setting ID
3.4.50	Indactic 33/41	Changed name from Group to File where appropriate
3.4.51	Marathon	<p>Added ControlOptimize property to SBT, Line, and Protocol Control Object Nodes.</p> <p>Added new SBT node option "Stop Polling & Disconnect" to IdleAction property. Allows networked interfaces to disconnect after all devices on the connection are in Idle Fail.</p> <p>Added internal control at the line level. This control can be linked to an output on the From Master side. When pulsed this control will activate all devices in Idle Fail.</p> <p>Fixed problem with losing point names when link control points.</p>
3.4.54	Modbus	Added CommFailAction property on FromMaster side
4.0.4	MPS9000	Forced user to set line property to Sync or Async

4.0.5	All	Corrected handling of true/false parameters for non-English systems
4.0.10	S/Comm Distribution	Added new protocols for both master and RTU
	Modbus	Added Output Register Bit-string to issue 16 simultaneous digital output commands
4.0.13	Indactic	Added support for base value for 8-bit analogs
4.0.14	N/A	No editor release for corresponding sptemb or sptpc release
4.0.15	Getac SDLC	Added link retry
4.0.18	All	Added support for single device download
4.0.21	Modbus ToRTU	Added Concurrent property at device level
4.0.24	Modbus	Added BCD Type for analog inputs
	All	Added SPT log filtering
4.0.25	All	Added event and property for SPT response timing
4.0.29	All	Added WriteTimeout property at Channel and SPT levels
4.0.31	All	Added LogFilter property at SPT level
4.0.33	All	Added FreezeRetry property at SPT level
	All	Added device level filtering
	Conitel and CDC-1	Added DLL level logging
4.0.35	Conitel	Added support for RTUS that do not respond to RTU freezes
4.0.41	All ToRTU Devices	Added InterControlDelay property
4.0.44	Network	Added redundancy support for network protocols
4.0.47	All	Added support for Spread Sheet input
4.0.49	OPC/XML	Corrected display of point name in OPC/XML protocol
4.1.0	All	Supports ASE's Terminal Server
4.2.6	Modbus	Added 2-bit points
4.2.7	Modbus	Added control over 2-bit point bit position
4.2.11	Modbus master	Added connection timeout property
	IEC 101 slave	Added full-time stamp property
4.2.19	DF1	Changed specific analog words to digitals
4.2.20	BOA	Added new protocol
4.2.21	All	Added block change of Terminal Server IP address
4.2.24	DNP3	Added support for internal freeze to DNP3 devices that support only running counters
4.2.25	IEC 870-5-104	Added support for redundant links in the ToRTU side
	Modbus	Added ability to reverse bits in register inputs
4.2.26	BOA	Added properties to set Analog Output format
	All	Added duplicate name checker when parting a column of names
4.2.30	Modbus	Added ability to select Modbus coil index based on pulse duration
	All	Added "alternating" logic option for dual ported ToRTU devices
4.2.31	DNP	Added option for UTC time
4.2.32	All	Added oversampling option in interface to ASE Terminal Server

4.2.33	Modbus	Added ability to select Modbus Output Register BitString index based on pulse duration
4.2.36	IEC 870-5-101	Added option to support 0xA2 as an alternate ACK octet
4.2.37	IEC 870-5-101	Added support for packed binary (ASDU 20)
4.3.0	IEC 870-5-101/104	Corrected AddTime option for measured values
4.3.1	All	Added ability to paste a device into a redundant line
4.3.6	IEC 870-5-101/104	Changed default value for CIMODE property
4.3.9	Hidro	Added ToRTU Hidro protocol
4.3.12	DNP ToRTU	Removed APDUSize property
4.3.13 and 4.3.14	Modbus Master	Added special output for Costa Rica that converts a trip or close request to a force multiple output register to meet their requirements
4.3.18	SpaBus Master	New protocol
4.3.19	SpaBus Master	Added support for Channels
4.3.20	SpaBus Master	Added support for events and writing variables
4.3.23	SpaBus Master	Added Read Status request
4.3.26	Modbus Slave	Added self-addressing option
4.3.28	DNP	Added Trigger "Need Time" on Time Sync message
4.3.30	All	<ul style="list-style-type: none"> • Create temp files in system temporary area to prevent conflicts for Windows 7 • Changed Terminal Server defaults to ASE Terminal Server
4.3.31	Modbus Master	Changed design for Costa Rica output registers
4.3.32	All	Changed default port for terminal server channels
	Modbus ToRTU	Set "Maximum" defaults to Calculate from QueryDevice
4.3.36	All	Improved efficiency for large data bases with no serial lines
4.3.40	All	Corrected copy/paste for digital output points where the number of points in the target device could be twice those in the source
4.3.41	All	Added RequestsPerDevice