Software Release Notes
Version – 5.4.0 / 6.4.0
March 26, 2026

Subject: Stanley Assembly Technologies Controller Software Release – 5.4.0 / 6.4.0

☐ Option ☒ Recommended ☐ Require

Program: Controller Software Release – Version 5.4.0 / 6.4.0
Release Date: March 27, 2026
File Location: SharePoint>Software>Gateway & Firmware for Controllers>5.4.0-6.4.0>5.4.0-6.4.0.zip
Output File (s): QB-5.4.0.bin, 5.4.0_gateway.exe, αtb-6.4.0.bin

Release Highlights

- 6.4.0 software for SC and BRF product is being implemented at the manufacturing facility
- 5.4.0 software for B series and QB is becoming available, but factory implementation to be delayed several months
- RED EU 2022/30 and EN 18031-1:2024 Compliance for SC, B, and BRF Product
  - Atb is now over SSL with a self-signed certificate
  - Heightened user security
  - Protocols Default Off
- ToolsNet Support updates
- Gesture Support for SC and BRF tools
- Cordless tool pairing improvements, especially with SC controllers
- Downgrade to insecure versions (prior to *.4.0) is disabled
- Many usability improvements

Compatibility

- 5.4.0_gateway.exe is an αtb emulator designed for computers running Microsoft Windows®
- QB-5.4.0.bin is software designed to operate B, BPB, and QB series product
- αtb-6.4.0.bin is software designed to operate BRF and SC series product

Atb (Effecting most products)

Effected Feature	Change ID	Notes
Fieldbus	24905	Profinet GSDML Foreign Language Corruption Resolved
General Improvements	24466, 23823, 24096, 24140, 25070	General Improvements - Improved Navigation
General Improvements	19473, 22665	New Event Log Entries: - Modbus connect / disconnect - Lead Spindle Pairing Mode

Subject: Stanley Assembly Technologies Controller Software Release – 5.4.0 / 6.4.0

☐ Option ☒ Recommended ☐ Require

Network Security	24508, 24628, 6500, 23249, 24370, 24502	Enabled HTTPS: - TLS Version 1.3 - Increased Wi-Fi Security - Self-signed trust certificate - Software - Prevent firmware downgrade to insecure versions (pre *.4.0) - Protocols must be enabled or configured to use - Disabled unused ports on plant network
User Management	24504, 24505, 24506, 24507, 24534	Implemented secure user management: - Restructured to only admin user level - User creation now in startup wizard - User password must be at least 6 characters - Allows exporting of job and rundowns without login - No password required to default from device face, or corded connection (i.e. USB or αtb port)
αtb Interface	19498	Fault codes now show for trailing spindles
αtb Interface	23756	Shutoff Code Changes: Torque Window changes to [X] Overtravel changes to |<-- Torque redundancy is X1<>X2 Angle redundancy is A1<>A2
αtb Interface	25113, 25114	Interface Improvements: - Added downshift mode to αtb interface - Removed regional settings when browsing trailing spindle

Software Release Notes
Version – 5.4.0 / 6.4.0
March 26, 2026

Subject: Stanley Assembly Technologies Controller Software Release – 5.4.0 / 6.4.0

☐ Option ☒ Recommended ☐ Require

Both SC Controllers & BRF Tools

Effected Feature	Change ID	Notes
Networking	23849	Added countries to Wi-Fi Country List: China, Japan, Singapore, South Korea, Taiwan
General Improvements	25033, 25055	Filesystem improvements affecting update and parameter stability
Networking	23793	αtb IP now changes in the event of an IP conflict improving ease of pairing
Networking	24369	αtb connection reliability improvements
Networking	17644	Added support for Wi-Fi Certificates
User Experience	23350, 23351, 23895, 24145, 24372, 24395	Various Improvements: - Keyboard - Field navigation, as when changing job settings - Right swipe gesture navigates back - Remove unused menu items - Time zone on screen menu improvements
αtb Interface	23349	Dialog box improvements
αtb Interface	25261	Added disk icon when saving

STANLEY
Engineered Fastening

Software Release Notes
Version – 5.4.0 / 6.4.0
March 26, 2026

Subject: Stanley Assembly Technologies Controller Software Release – 5.4.0 / 6.4.0

☐ Option ☒ Recommended ☐ Require

SC Controllers

Effected Feature	Change ID	Notes
General Improvements	25545	Eliminated "Logic Voltage Fault Cleared" being logged at powerup
I/O	24144	Corrected bug with Rundown Units appearing as '?'
I/O	25031	Resolved case where job reset not working
Networking	24904	Ethernet/IP stability improvements
Networking	19226	SC can now connect to Lead IP via 802.11
Networking	19512	Network stability improvements
Protocol	19422	SC can now set bolt count from protocols
αtb Interface	25082, 25264	Resolved bug where pairing button doesn't appear on SC-X*** controllers, and where protocol spindle numbers are not matched correctly

BRF Tools

Effected Feature	Change ID	Notes
Pressure Switch	24142	Added "Force Zero" Sensors screen
Fastening	23890, 23891, 24951	Improvements to load cell and transducer reading stability and elimination of nuisance transducer current faults

B Tools

Effected Feature	Change ID	Notes
Connectivity	24285	Fixed an issue which could cause resending a barcode scanned part ID
Networking	23277	Connection light & event log improvements

Software Release Notes
Version – 5.4.0 / 6.4.0
March 26, 2026

Subject: Stanley Assembly Technologies Controller Software Release – 5.4.0 / 6.4.0

☐ Option ☒ Recommended ☐ Require

Protocols

Effected Feature	Change ID	Notes
Open Protocol	24287	Fixed an issue where a trailing spindle could be enabled before job synchronization when disconnected from the lead controller, potentially causing mismatched bolt counts.
PFCS	24647	Fixed issue where PFCS can't change jobs
ToolsNet	23474	Various improvements to support next version of ToolsNet: - Abort timer parameter now sent - Program change date/time now sent - Program name now supports 50 characters - Now supports extended PIM - Updated Error Codes - Program Created date not sent if unknown - Stability improvements
XML	25334	Icon updates: - Dim = connected to command port (partially connected) - Bright = connected to command and results port (fully connected)
XML	25336	Added support for rivet tools

General Improvements

Effected Feature	Change ID	Notes
Accessories	24976	Fixed bug with serial barcode / printer
Multispindle	25211	Resolved issue where tool disabled is not honored in start all reject only mode

Software Release Notes
Version – 5.4.0 / 6.4.0
March 26, 2026

Subject: Stanley Assembly Technologies Controller Software Release – 5.4.0 / 6.4.0

☐ Option ☒ Recommended ☐ Require

QB Controllers

Effected Feature	Change ID	Notes
Accessories	22860	4-part Part ID added to QB user interface
General Improvements	23275	USB Memory Detection Improvements
Protocol	24286	Resolved an issue where a ModBus configuration could cause instability.
Protocol	23929	Corrected issue with GSDML file
αtb Interface	23738	Resolved reporting of Tool Communication Error when disconnecting E Series Tool
Security	23887	Disabled USB booting to insecure firmware to enhance security

Software Upgrade Procedure

We recommend that all STANLEY Assembly Technologies product in an interconnected system be on the same version of software for best compatibility. When updating controllers, update the trailing spindles controllers and cordless tools first, then update the lead spindle controller.

1. Make a BACKUP of your current configuration and all relevant data such as rundowns, traces, or the event log
2. Update the firmware by selecting *Service>Controller* and pressing the update button
3. Power off the controller when prompted
   Note: If updating from a USB-drive, remove it prior to rebooting.
4. Wait 20 seconds before power up
5. After rebooting, verify the update was successful by navigating to by confirming that the version number is updated on the *Service>Controller* screen
6. Return the controller to operation