INTAX® Tvi 36V5 Software History

8.18D - 4th of November 2026

- No functional changes

8.18C - 4th of August 2026

- No functional changes

8.18B - 9th of July 2026

Fixes

- WebMotion® now displays correct detailed sector selection data

8.18A - 18th of June 2026

Fixes

- Faulty I_Force Drift Compensation with inverted measuring system fixed

8.18 - 9th of June 2026

New

- Complete refactoring of motion diagram for more flexible recording options

Fixes

- Preventing ASCII commands being interrupted by event messages

8.16D - 4th of Mai 2026

New

- New SDO Objects
  - 0x5001:46 Servo Hardware Version
  - 0x5001:47 Motor Serial Number
  - 0x5001:48 Busmodule Protocol
  - 0x5024 Motor Serial Number String
  - 0x5028 Motor Type String

Improvements

- Info 28 "IP address overlap" also checks if Industrial IP address configured in the PLC is already used by another Ethernet interface configured in WebMotion

Fixes

- SDO Objects 5008:1, 5008:2, 5008:3 not stored persistently fixed

8.16C - 17th of April 2026

- No functional changes

8.16B - 19th of March 2026

Fixes

- Sporadically missing soft limit warning entry in error buffer for profile position drives fixed (ramp down at soft limit position was always executed, but error entry was sporadically skipped)

8.16A - 17th of February 2026

New

- Adjustable mailbox size for EtherCAT communication
- New ASCII-Command
    - ECMBS EtherCAT Mailbox Size

Improvements

- Servo ramps down with emergency deceleration when PROFIdrive telegram 5 parameter KPC is set to 0. Requires at least Busmodule MP firmware V5.32

Fixes

- Sporadic unwanted termination of a repeat reverse program via the WebMotion® fixed

8.16 - 22th of December 2025

New

- WebMotion® setup wizard
- Lower minimal PLC cycle times supported
    - EtherCAT: 200µs,
    - Powerlink: 400µs
    - Profinet IRT: 500µs
    - Ethernet/IP: 1ms

Improvements

- Minor WebMotion® improvements (improved movement functions on site "by click" etc.)

8.14B - 15th of December 2025

Fixes

- Fixed startup problem if 12...36V DC Power is switched on/off while 12...36V DC Logic is still switched on

8.14A - 1th of December 2025

- No functional changes

8.14 - 14th of November 2025

New

- Position Mapping support

Improvements

- Maximum supported acceleration increased to 2'000'000'000inc/s^2
- Minor WebMotion improvements

Fixes

- Sporadic incorrect WebMotion busy page message after refreshing the browser fixed

8.12A - 6th of November 2025

Fixes

- Sporadic non-resettable errors in gantry coupled mode fixed

8.12 - 30th of September 2025

New

- PROFIdrive parameter 2000 is stored persistently in the application data

8.10 - 11th of August 2025

New

- Encoder direction inversion and encoder position offset functionality added
- New SDO Objects and corresponding ASCII-Commands
    - 0x6000 ENCCD Encoder count direction
    - 0x6509 ENCPO Encoder position offset
- New SDO Object
    - 0x5003:107 (FCSP)

Improvements

- Webmotion startup speed increased

8.08B - 17th of July 2025

New

- New ASCII-Command
    - FCSP Force calibration speed

8.08A - 2th of July 2025

- No functional changes

8.08 - 20th of June 2025

- No functional changes

8.06 - 16th of April 2025

New

- Powerlink support
- Shared IP access mode support for servo controller access with same IP address over fieldbus ethernet and direct ethernet
- Storage of force calibration data into motor made more robust
- New ASCII-Commands
    - EIPAM IP access mode
    - FCSS Force Calibration Storage State

Fixes

- Various minor WebMotion® fixes:
    - Setting state control active filter fixed
    - Freezing while access non existing force sectors in force diagram fixed

8.04A - 17th of February 2025

Fixes

- Display of error 61 (overvoltage motor inverter supply) made more tolerant

8.04 - 27th of January 2025

New

- EtherNet/IP CIP Sync support
- Position reached in cyclic synchronous position mode now indicated with bit 10 in CANopen statusword
- PSR bit 9 function extended and renamed to PSR_BIT_SYSTEM_REFERENCE_DONE
- New ASCII-Commands
    - CSTSO CIP Sync timestamp offset
    - FBCM Force buffered CSP mode for EtherNet/IP
    - SOD P402 Switch on at transition 3 disabled
- New SDO Objects corresponding to ASCII-Commands
    - 0x5003:106 (FBCM)
    - 0x5003:104 (SOD)
- New value for CANopen direct command object 0x5000
    - Object 0x5000, value 0x5002: RESO command

Fixes

- Mutual blocking at simultaneous web and socket server communication fixed
- Spurious freezing of WebMotion after motion recorder start fixed
- Spurious faulty display of warning 46 fixed
- USB connection problem with active cyclic PLC communication fixed

Improvements

- In CANopen DS402 state machine, power stage now enabled at "switch on" command (used to be done at "enable operation" command)

8.02B - 22th of November 2024

- No functional changes

8.02A - 30th of October 2024

Fixes

- Missing TCP/IP events "@S1"/"@S2" at moves to actual position fixed

8.02 - 11th of October 2024

New

- Profinet MC_HOME support
- Force Monitoring Verification support
- Storage of force calibration data into motor can now be disabled which is useful if force calibration is run frequently
- New ASCII-Commands
    - PMHSD Profinet MC_HOME Support Disable
    - FMV Force Monitoring Verification
    - FCSM Force Calibration Storage Mode
- New SDO Objects corresponding to ASCII-Commands
    - 0x5003:102
    - 0x5003:103

8.00B - 09th of September 2024

- No functional changes

8.00A - 27th of August 2024

Improvements

- General WebMotion® improvements
    - Preserve zoom when changing motion diagram display data
    - Logarithmic sliders changed to linear
    - Input fields in the MOVE section of move axis by click now persistent
    - Selected filter in advanced settings section of setup state controller now persistent
    - Filter not set automatically, when selecting desired frequency in FFT diagram
    - Various minor optical improvements
- Consistency of PSR bits and internal trajectory generator state improved
- Various improvements in service menu

8.00 - 19th of July 2024

New

- General synchronisation of controller firmware Xvi75V8S, Xvi48V8 and Tvi36V5
- New ASCII-Commands
    - BCSPR Buffered CSP reserve

Improvements

- General controller improvements
    - Cyclic synchronized position mode with feed forward
    - More accurate I2T calculation
    - General calculation optimization within controller
- General WebMotion® improvements
    - Various optical adjustments
    - More detailed information in application data file
    - Extended error history buffer

7.06A - 27th of September 2023

- Spurious initialisation problem of CSP mode 8 after powerup solved
- Small current bump after finishing Drive_I_Force eliminated

7.06 - 12th of June 2023

- Ethernet/IP profile position mode support
- controller stability at speeds >1.3m/s improved

7.04 - 03th of April 2022

- Ethernet over EtherCAT (EoE) support
- Simple TCP interface optimized for faster data throughput
- New info 28 "IP Range overlap"
- Faulty controller state after quickly switching power stage on and off fixed
- General stability improvements for the USB Ethernet interface
- General controller performance improvements

7.02 - 24th of November 2022

- Profinet support
- Functionality "Position Window Time" added (selectable delay of the PSR-Bit "IN_POSITION" and Statusword-Bit "Target Position Reached")
- New ASCII-Command
    - PWT Position Window Time
- New SDO Objects corresponding to ASCII-Commands
    - 0x6068
    - 0x5001:42
- USB descriptors adapted for reliable detection of INTAX® device over USB on following operation systems: Windows, Linux, MacOS
- Update time of PDO objects 0x2005 (I_Force Actual) and 0x200A (Force Actual Value) reduced to 100µs
- New error 54 "Measuring system failure"
- INTAX® serial number available via WebMotion®
- Various service functions added (service command line, crash handler, ...)
- Position filter and absolute position calculation adapted for series production

- WebMotion® access preventable by pin
- Incorrect trajectory calculation in cyclic synchronized position mode with velocity feed forward corrected
- Spurious problems at storing force calibration data corrected (prevent error 82 while storing force calibration data)
- Spurious problems at industrial ethernet firmware update corrected

7.00E - 24th of October 2022

- Faulty behaviour fixed during processing of PDO data
- Power Continue made more tolerant (spurious error 100 fixed)
- Various optical adjustments in WebMotion®

7.00D - 02th of September 2022

- Quickstart function improved
- New ASCII-Commands
    - LARES Linear Axis Resolution
    - LAST Linear Axis Stroke
    - RP Repeat Positions
- Faulty behaviour of PSR Bit I_FORCE_LIMIT_REACHED and corresponding Warning 30 fixed
- Industrial Ethernet Licence integrity improved

7.00C - 12th of August 2022

- Renaming/Redefinition of the INTAX® Servocontroller name to "Tvi36V5"
- Blocked revisions 7.00, 7.00A and 7.00B from loading
- Industrial Ethernet Licence integrity improved

7.00B - 25th of July 2022

- Space vector pulse width modulation optimized for less noise at very low current

7.00A - 20th of July 2022

- Over current supervision made more tolerant (spurious error 70 fixed)
- Bug in space vector modulation at high speeds fixed (higher speed can now be achieved)

7.00 - 04th of July 2022

- Initial version with INTAX® Tx36V5 support