

Software History Tvi36V5

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 100us
- 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