

Draco Tera Tool

System Requirements

Operating system	Microsoft Windows	• Windows 10, Windows 11 • Free memory of 2 GB recommended
	macOS	• macOS 10.14 (Mojave) or higher • Free memory of 2 GB recommended
Specification	Java	• Java 11 is the minimum version required. However, we recommend using a newer version of Java. https://adoptopenjdk.net, https://github.com/ajdkbuild/ajdkbuild • On Windows operating systems, the portable tool TeraToolApp requires no Java installation

V 6.0.3.0	2025-08-15	Modification
Features and enhancements	• New user interface (light and dark mode) • System Settings – System: Added Redundancy Reset	
Improvements	• Status & Updates – Update Matrix Firmware, Status & Updates – Update Extender Firmware: Added firmware validity check before update • System Settings – Network: Simplified activation of Web Control service • System Settings – User: Added password strength check • Assignment – Multi-Screen Control: Increased column width of Owner column	
Fixed bugs	• System Check: Fixed video codec check	
V 6.0.2.0	2025-05-28	Modification
Improvements	• System Check: Added additional Multi-Screen Control checks	
Fixed bugs	• Fixed limitation to 1GB RAM usage in TeraToolApp	

V 6.0.1.0	2025-04-02	Modification
Features and enhancements		• Support of JZTHPCON, JZTHPCPU, JZVHPCON, JZVHPCPU, JZTDXCON, JZTDXCPU, JZVDXCON, JZVDXCPU extender firmware • Support of FZDXCON, FZDXCPU extender firmware (Flash update only) • Support of FAN6BPJ fan firmware • View – Matrix, View – Ports: Display 'No Device' symbol for extenders without assigned device
Improvements		• Status & Updates – Update Matrix Firmware: Added WEBCTL dependency check before starting the controller board firmware update • Control – Extended Switch: Improved switching rules (e.g. for power user)
Fixed bugs		• Status & Updates – Status Extender Firmware, Status & Updates – Update Extender Firmware: Hide HID and MSD firmware strings for DracoConAPP, because it's not supported • Monitoring – SNMP: Fixed trap message for unused power supply • Fixed event based data update in several forms
V 6.0.0.2	2025-03-20	Modification
Fixed bugs		• Ignoring upper/lower case for user names • View – Matrix\View – Port: Fixed power user context menu options • Control - Extended Switch: Fixed power user access rights
V 6.0.0.1	2025-03-04	Modification
Fixed bugs		• File\New: Fixed error in creating offline configuration for version V04.02, V04.03, V04.04 • Extender & Devices – EXT Units: Removed Fixed CON Unit and Fixed CPU Unit for firmware versions below V05.04

V 6.0.0.0	2025-01-14	Modification
Features and enhancements		• Support of firmware version 06.00 • Extender & Devices – CON Devices: Added parameter CPU Info to show all connected CON Devices with logged-in users in OSD • Extender & Devices – CON Devices: Added parameter Disable Disconnect to disable ability to perform a disconnect on the current connection via hot key
Improvements		• System Settings – Network: Combine trap selection of tab Trap Receiver 1 and tab Trap Receiver 2 • Control – Extended Switch: Improved performance of reset command • Status & Updates – Miscellaneous\I/O Board Diagnosis: Added download option for IP Gateway diagnosis data.
Fixed bugs		• Control – Web Control Designer: Fixed preset configuration
V 5.5.3.0	2024-12-05	Modification
Features and enhancements		• Support of ECVHSCON and ECVHSCPU
Improvements		• Status & Updates – Miscellaneous: Improved input of license key in License Key field • Extender & Devices - CPU Devices\IP Session Config: Added new Options Fit Screen and Auto Screen to Resolution for type VNC.
V 5.5.2.2	2024-10-10	Modification
Fixed bugs		• Status & Updates – Update Matrix Firmware: Fixed bundled MATLOS update • Status & Updates – Update Matrix Firmware: Fixed elapsed time counter in status bar
V 5.5.2.1	2024-08-22	Modification
Fixed bugs		• Status & Updates – Update Matrix Firmware: Fixed firmware update support check to firmware greater or equal to V05.00
V 5.5.2.0	2024-07-29	Modification
Features and enhancements		• View – Matrix, View – Port: Display logged in users. Users can be logged out view the context menu • Control – Web Control Designer: Added Clone Layout function • Extender & Devices\CPU Device\IP Session Config: Support VM Ware Remote Console (VMRC)

Improvements		• Statusbar: Show SSL icon when secure communication is enabled • Monitoring – SYSLOG\SNMP: Keep selection when sorting and filtering • Device Finder: Added additional connect button • Save Status: Disable saving EXT Units settings by default • Status & Updates – Update Matrix Firmware: Redirect to design update panel if design update is required • Status & Updates – Update Matrix Firmware: Allow WEBCTL firmware updates even if no WEBCTL license is available • Extender & Devices – CPU Devices, Extender & Devices – CON Devices: Improved form layout • Improved java 17 support
Fixed bugs		• Monitoring – SNMP: Invert value of HID-Sync Bit • Save Status, System Check: Fixed reading language resource information from I/O boards • Device\Advanced Services\Factory Reset of I/O boards: Fixed factory reset of I/O boards in grid environment • View – Control: Fixed loading of layouts including images • Control – Extended Switch: Fixed switching rules (Priority vs Exclusive Access, Video Sharing, Evaluating CON Device\Allow User ACL) • Status & Updates – Status Matrix Firmware, Status & Updates – Update Matrix Firmware: Fixed detection of MATLOS version of redundant controller board • Status & Update – Update Matrix Firmware: Block WEBCTL updates on redundant controller board
V 5.5.1.0	2024-06-24	Modification
Features and enhancements		• Extender & Devices – CON Devices: Added parameter Direct Link Fallback • Extender & Devices – CON Devices: Added device type Virtual Group
V 5.5.0.1	2024-05-13	Modification
Fixed bugs		• Fixed SSL communication • Fixed JRE in TeraToolApp

V 5.5.0.0	2024-05-02	Modification
Features and enhancements		• Support new Web Control application (Web Control Designer, Web Control Service, Web Control License) • Added event based communication (requires matrix firmware 05.04) • Support of Japanese firmware version 05.05 • Support of EXVDHCON and EXVDHCPU • Support of CONVRGPU
Improvements		• Control – Extended Switch: Improved switching rules for Exclusive Access, Priority • System Settings – System\Global OSD Settings: Improved encoding selection • Help\About: Show external libraries and licenses • Extender & Devices – CON Devices\CPU Device Access Control, Extender & Devices – CPU Devices\CON Device Access Control, Extender & Devices – CPU Devices\User Access Control, User Settings – Users & Groups\CPU Device Access Control: Improved performance of ACL tables • Increased number of characters in several input fields, e.g., Device Names, System Name, User Name (requires matrix firmware 05.05)
Fixed bugs		• Control – Extended Switch: Fixed Reset All command • Extender & Devices – CON Devices\CPU Device Access Control, Extender & Devices – CPU Devices\CON Device Access Control, Extender & Devices – CPU Devices\User Access Control, User Settings – Users & Groups\CPU Device Access Control: Fixed missing labels
V 5.4.2.1	2024-02-01	Modification
Fixed bugs		• View – Matrix: Fixed refreshing of view after restart or inserting/removing of I/O boards • Status & Updates – Update Matrix Firmware: Fixed MATLOS update dependency check • Control – Extended Switch: Consideration of group rights • Fixed default button behavior
V 5.4.2.0	2023-12-13	Modification
Improvements		• Status & Updates – Update Matrix Firmware: Added hardware compatibility check.

V 5.4.1.0	2023-11-30	Modification
Features and enhancements		• New filter option for all tables (e.g. in EXT Unit Assignment, CPU Device Access Control, Favorites, ..)
Improvements		• View – Matrix: Added description for Channel Usage to I/O Port Symbols • Status & Updates – Update Matrix Firmware: Added several dependency checks to avoid incorrect combinations • System Settings – Switch: Added selection rules for Video Sharing, Force Connect, Force Disconnect • System Settings – IP Extender\IP Extender Settings: Enhanced label width • Extender & Devices – CPU Devices: Added selection rules for Allow Private and Force Private • Extender & Devices – CON Devices: Disable GPIO configuration when BXE2 module is used • Save Status: improved data collection
Fixed bugs		• System Settings – Matrix Grid: Fixed dissolving of matrix grid, if one or more matrices are switched off • Extender & Devices – CPU Devices\IP Session Config: Fixed session assignment
V 5.4.0.2	2023-10-30	Modification
Fixed bugs		• System Check: Removed wrong ENAREDFRM NOT SUPPORTED message for EXTDDCON • Status & Updates – Miscellaneous\Custom UI Update: Fixed custom UI update
V 5.4.0.1	2023-09-05	Modification
Fixed bugs		• Extender & Devices – EXT Units: Fixed Locate Extender Module for redundant link • User Settings – Users & Groups: Ensure correct data size after matrix firmware update • File\Import\CON Device, File\Import\CPU Device: Fixed reassignment of extenders

V 5.4.0.0	2023-08-11	Modification
Features and enhancements		• Support of matrix firmware version 05.04 • Support of Chinese firmware version 05.03 • Support of EZTHRCON, EZTHRCPU • Extender & Devices – CON Devices: Added parameter Switch with EDID
Improvements		• System Check: Show number of users and groups • System Settings – System\Global OSD Settings: Restart Extender after Hot Key changes • System Settings – IP Extender\IP Extender Settings: Full support of reading and writing IP Extender settings • User Settings – Users & Groups: Increased LDAP group size • Removed mail support
Fixed bugs		• Extender & Devices – EXT Units: Fixed Locate Extender Module for redundant link • Extender & Devices – EXT Units\EDID: Fixed Pixel Clocks • User Settings – Users & Groups: Fixed labels length
V 5.3.0.0	2023-06-30	Modification
Features and enhancements		• Support of matrix firmware version 04.03 • Support of MORGPIO firmware • Support of ECTCON and ECTCPU firmware • Support of USBHS3 firmware • Support of Draco CON APP • User Settings – Users & Groups\Users: Added parameter 2 Factor Authentication to support 2 factor authentication in firmware 04.03 • Support customized background (background.png) image and background logo (logo.png)

Improvements	• View – Matrix\View – Port: Added confirmation dialog for extender restart action • System Settings – System: Removed Parameter Remove I/O Boards • System Settings – Network\SNMP: Added trap Extender Module Status • Extender & Devices – EXT Units\OSD Control Settings: Display module restart dialog after changes in Hot Mouse and Hot Key • Extender & Devices – CPU Devices: Full support of 8 port CPU switch • Extender & Devices – CPU Devices\IP Session Config • User Settings – User & Groups\Users: increased user name and password length to 32 characters • Save Status: Save log files of IP CPU device • System Check: Enhanced grid configuration checks • Revised labels and texts • Improved internal firmware version string management	
Fixed bugs	• View – Port: Fixed port usage detection • Extender & Devices – CPU Devices: Fixed assign/copy/replacement button behavior • Extender & Devices – CPU Devices: 2 Step Access and Access Dialog must not be activated at the same time • User Settings – Users & Groups: Fixed update of values in textfields • Extras\KM-Switch Configurator: Fixed device detection on Linux operating systems	
V 5.2.0.1	2023-03-09	Modification
Fixed bugs	• Control – Extended Switch: Fixed displaying devices for admin and super user • Save Status: Fixed reading IP gateway data • Extender & Devices – CPU Devices\Monitor Arrangement: Fixed memory management	

V 5.2.0.0	2023-01-09	Modification
Features and enhancements		• Java 8 runtime is no longer supported • View – Matrix, View – Port: Display IP Gateway information in properties panel • Status & Updates – Update Extender Firmware: Added new dialog with deselect all option after automatic firmware selection • System Settings – Network\LDAP: Support of up to 4 LDAP Server. Added new parameter Base Search, Bind DN and Bind Password • Support of matrix LED Locate • Extender & Devices – CPU Devices\Server Settings: Support of DNS Server 1, DNS Server 2 and MAC Address for IP CPU • Extender & Devices – EXT Units\Parameters: Support of parameter ENALOBW • Extender & Devices – CPU Devices: Support of parameter Follow Session
Improvements		• View – Matrix: Added authentication dialog for controller board restart action • Control – Extended Switch: Hide not accessible Console Devices for Power users (Login Lock) • Status & Updates – Update Extender Firmware: Disable update button during reload • System Settings – IP Extender\Search IP Extender: Set apply button as default button • System Settings – IP Extender\Search IP Extender: Removed parameter Name • Extender & Devices – CPU Devices\IP Session Config: Support User Names with up to 32 characters • Assignment – Multi-Screen Control: Added verification of Multi-Screen Control configuration • Flash Update: Improved comparison of installed and update version
Fixed bugs		• File\Import: Fixed import of universal port extender data from csv file • System Check: Fixed IP CPU checks • Fixed possible blocking of table filter

V 5.1.4.2	2022-11-21	Modification
Fixed bugs		• Status & Updates – Update Extender Firmware: Removed incorrect message before parallel firmware update starts • Extender & Devices – CON Devices: Fixed copying macros in wizard Copy Settings from
V 5.1.4.1	2022-11-15	Modification
Fixed bugs		• View – SNMP: Fixed displaying remote extenders at link 2 • View – SNMP: Fixed displaying extenders in 6 slot chassis • System Settings – Network\SNMP: Fixed layout in Trap Receiver form for SNMP modules
V 5.1.4.0	2022-10-28	Modification
Features and enhancements		• View – Matrix / Assignment – Multi-Screen Control: Show MSC temporarily off • Extender & Devices – CON Devices: Added parameter USB Off
Improvements		• Connect: When connecting to a 576 sub controller board, a message appears that the functionality is limited • System Settings – IP Gateway: Added Select Grid Channel column for easier grid channel configuration • Extender & Devices – Ext Units: New L/R474-BB2X and L/R474-BB2E renderings • Extender & Devices – Ext Units\Parameters: ENAREDFRM (width, color, duration) is automatically supported by each new redundant console extender generation • Status & Updates – Status Extender Firmware: Do not show an extender firmware conflict for non-updateable components • Status & Updates\Miscellaneous: Added Grid/IP Gateway conversion

Fixed bugs		• View – Matrix: Fixed several I/O board labels • View – SNMP: Fixed displaying remote extenders in 6 slot chassis • Status & Updates – Update Matrix Firmware: Cancel button in Save Status dialog cancels saving status but starts update • Status & Updates – Update Matrix Firmware: Fixed Select CPU label in Additional selection options menu • Status & Updates – Update Matrix Firmware: Fixed bug in 576er firmware update process • Assignment – Multi-Screen Control: Fixed filter function in table • Monitoring – SNMP: Fixed label of extender status trap
V 5.1.3.0	2022-09-26	Modification
Features and enhancements		• Support access of remote extender in chassis with SNMP board or SNMP functionality. • Support Extender locate functionality
Improvements		• Assignment – Multi-Screen Control: Improved modification detection • View – Matrix: Added security question dialog for restart and reset actions • Extender & Devices – CON Devices\Send OSD Messages to....: Improved communication process between tool and matrix
Fixed bugs		• Fixed error in socket communication • System Settings – Network\SNMP: Fixed error in reading function • System Settings – System\Synchronization Mode: Fixed reading IP Address in matrix firmware version > 04.00 • System Settings – IP Gateway: Fixed possible dead lock when deleting channels
V 5.1.2.0	2022-08-01	Modification
Features and enhancements		• Support of new IP Gateway • Support of new IP Extender • Support of body 2 and body 6 with SNMP functionality (MATCSNMP) • Support of new body 21 • Support of new 576 matrix power supplies • Status & Updates\Miscellaneous: New I/O board firmware converter

Improvements		• System Settings – Network\SNMP: Show read-only community string for SNMP boards • Extender & Devices – Ext Units: Disable port field for fixed port extenders, if port number is greater than 0 • Extender & Devices – Ext Units: Improved reading of HDCP values from configuration • Monitoring – SNMP: Improved trap message when removing cable from a matrix power supply • Assignment – Multi-Screen Control: Improved display of arrangement
Fixed bugs		• View – SNMP: Fixed possible dead lock • Extender & Devices – Ext Units\General OSD Data: Fixed Fast Key selection • Monitoring – SNMP: Fixed foreground color in dark mode • Assignment – Multi-Screen Control: Fixed detection of modified data • System Settings – Network: Added fallback for invalid mac addresses
V 5.1.1.0	2022-04-10	Modification
Features and enhancements		• Support of body 2 and body 6 with SNMP functionality • Support of EXTHDCON and EXTHDCPU • Extender & Devices – CON Devices\Macros, User Settings – User & Groups\Macros: Added function MSC Connect
Improvements		• Unified labels for CON Devices, CPU Devices und Ext Units • Save Status: Removed Wizard Panel Save Log Files for SNMP boards • User Settings – User & Groups: disable parameter Priority for default admin user
Fixed bugs		• View – Matrix: Show secondary controller board in 152 matrix • Extender & Devices – CON Devices\Login Lock, User Settings – User Settings – User & Groups: Removed empty items from Locked Login list • Extender & Devices – EXT Units\Firmware Version: Fixed displaying of EXTDHCON, EXTDHCPU and FZVDXCON • View – Control: Fixed Designer when running with Java Runtime < 10

V 5.1.0.0	2022-01-26	Modification
Features and enhancements		• Support of firmware version V04.01 • File\New: Select firmware version for new configuration files • Device Finder: Show Draco MultiView 4K60 • System – System Settings: Added parameter Primary Preferred • Extender & Devices – EXT Units: Added new parameter HDCP Active • Extender & Devices – CON Devices: Added new parameters Show Disconnect and Video Off • Extender & Devices – CON Devices: Added Send OSD Messages to... • Extender & Devices – CPU Devices: Added new parameter Access Dialog (with Display Time and Delay) • User Settings – User & Groups, Extender & Devices – CON Devices: Support of Login Lock (Users can be blocked from logging in for certain CON Devices)
Improvements		• System Check: Added language checks for installed firmware. • Device Finder: Dialog is resizable • View – SNMP: Adjusted slot names • View – Super Grid: Improved general functionality • System – Network\Syslog: Improved log level selection behavior • Extender & Devices – CPU Devices: Enhanced Assign Settings to / Copy Settings from dialogs • Extender & Devices – CPU Devices\IP Session Config: Reduced input length to 16 characters in User Name
Fixed bugs		• Button labels may differ from the set language • Save Status: Fixed saving second mac address in 576er matrix • View – Control View: Fixed loading Control View • Status & Updates - Status Matrix Firmware: Reading of fan and power supply firmware on secondary CPU of 576er matrix is not allowed • Status & Updates – Update Matrix Firmware: Fixed MATLOS update on flex matrix • Extender & Devices – EXT Units\EDID: Read correct serial number

V 5.0.1.0	2021-10-13	Modification
Features and enhancements		• Extender & Devices – CPU Devices, Extender & Devices – CON Devices: Added Extender Replacement wizard • View - SNMP: Added Restart Extender action to context menu • Status & Updates – Update Extender Firmware: Support of Chinese extender firmware
Improvements		• Status & Updates – Status Matrix Firmware, Status & Updates – Update Matrix Firmware: Show firmware of redundant CPU board. • Status & Updates – Update Matrix Firmware: Firmware updates from version 03.04 to 04.00 may only be performed via an intermediate update to 03.08 • View – Port: Improved mouse wheel scrolling behavior • Assignment – Multi-Screen Control: Support new range from - 999 to 999 for Frame [Sec] • System Settings – Network\LDAP: Added length limitation for Base DN • System Settings – Network\LDAP: Added parameter Bind DN
Fixed bugs		• View - Matrix: Show passive redundant CPU board in 152er matrix • Status & Updates – Update Matrix Firmware: Fixed selection and color highlighting • System Settings – Network\General: Fixed Dual Interface in matrix grid environment • Status & Updates – Update Matrix Firmware: Fixed firmware update in 576er matrix with 2 CPU boards • Status & Updates – Update Extender Firmware\Upload Firmware: Fixed firmware upload in 576er matrix with 2 CPU boards

V 5.0.0.0	2021-07-20	Modification
Features and enhancements		• Support input of GB2312 (simplified Chinese) characters • New ultra-dark mode • Support of ECVDHCPU and ECVDHCON • Status & Updates – Update Matrix Firmware: Support of bundled MATLOS firmware update. Requires *.tfb update file • Extender & Devices – EXT Units\Parameter: Added PARAM=S support for ECTIDCPU • Extender & Devices – EXT Units\Parameter: Added ENAUSB11 support for BXE modules • Extender & Devices – EXT Units\Log: Support saving IPCPU log files • Flash Update: Added firmware update support for modular KM-Switch
Improvements		• Status & Updates – Update Extender Firmware: Added optional I/O board selection for parallel extender update • Status & Updates – Status Extender Firmware: Different MSD versions are no longer displayed with a warning • System Settings – System\Synchronization Mode: Create tab for synchronization parameters • Extender & Devices\ EXT Units: Show EDID 2 for Dual-Head extender • Save Status: Added panel for activating download of CPU board and I/O board log files • Save Status: Improved saving process for 576 matrix • KM-Switch MSC Configuration: added info that a restart is required
Fixed bugs		• View - Matrix: Show passive redundant CPU board in 152er matrix • Extender & Devices – CPU Devices\IP Session Config: Fixed saving password for VNC sessions • Fixed incorrect selection after executing Open Device menu item
V 4.0.3.1	2021-06-16	Modification
Fixed bugs		• Status & Updates - Update Matrix Firmware: Fixed system validation before update

V 4.0.3.0	2021-05-19	Modification
Features and enhancements		• Support of K480-576-R2 and K480-576S-R2 • System Settings – Network\General: Added Maintenance Parameter • System Settings – System: Added Master IP Address 2 Parameter • Support Keep Grid Lines functionality
Improvements		• Upload config to redundant controller board • Status & Updates - Matrix Firmware Update: Copy OS firmware to redundant controller board • System Settings – System\OSD Data(CPU): Hide panel on Flex matrices
Fixed bugs		• System Settings – Matrix Grid: Fixed Connect button • Extender & Devices\CPU Devices: Fixed selection of IP Direct Config • Extender & Devices\CPU Devices: Fixed selection of Dual-Head checkbox for IP CPU Devices • Extender & Devices\EXT Units: Fixed config.txt parameters for EXTHRCON (PRIVATEMODE) and EXTHRCPU (BLANKSCR)
V 4.0.2.0	2021-01-29	Modification
Improvements		• SNMP Board: Support upload and download of default configuration • View – Grid: added graphics for flex switches • Status & Updates – Update Matrix Firmware: Support fan and power supply firmware update • View – Super Grid: Added Default Connection Timeout
Fixed bugs		• Status & Updates – Update Extender Firmware: Fixed freezing UI during parallel extender update • System Settings – Matrix Grid: Fixed offline merge auf multiple grids • KM-Switch: Set illegal arrangements values to horizontal arrangement
V 4.0.1.1	2020-12-04	Modification
Fixed bugs		• Status & Updates\Miscellaneous\License Management: Fixed refresh of License Management panel • Fixed import of German CSV files

V 4.0.1.0	2020-12-01	Modification
Features and enhancements		• Support of EXTHRCON and ECTHRCPU • Added French language pack • Status & Updates – Miscellaneous\I/O Board Diagnosis: Option for activating SYSLOG messages on single or multiple I/O boards
Improvements		• Several small improvements when using a SNMP board • Improved matrix event handling • Extended Switch: Send user ID to the matrix, when sending a switch command • CSV Export: Use localized separator • Assignment – Multi-Screen Control: Added extender port to screen table
Fixed bugs		• Fixed CPU Port order for 152, 169, 288 and 576er switch • Extender & Devices – EXT Units\General OSD Data: Fixed displaying data for firmware version < 3.8
V 4.0.0.1	2020-10-16	Modification
Fixed bugs		• Extender & Devices – EXT Units\Parameters: Fixed MSD support date of ENAREDFRAME parameter
V 4.0.0.0	2020-10-15	Modification
Features and enhancements		• Support of firmware Version 4.0 • Support of new flex switch series • Support of Dual Interface mode • Support of ECTIDCPU (new IPCPU) • Support of firmware files with Chinese language support • Support of firmware update of modular KM-Switch • Support of MSC 2.0 configuration for modular KM-Switch • New dark mode • New super grid functionality • System Settings – Network\SNMP: Added Parameter Read-Only Community String • Extender & Devices – EXT Units\General OSD Data: Support configurable HotKey and FastKey • Extender & Devices – CPU Devices: Added Parameter MSC Disabled • Extender & Devices – CON Devices\GPIO: Support of configuration of HID Scan Codes for GPIO module

Improvements		• System Check: Added check for customizable ENAREDFRAME property • System Check: Added check for Grid Lines with source port and destination port within the same matrix • Status & Updates - Matrix Firmware Update: Support of fast parallel firmware update over I/O boards with MATLVOSC firmware • System Settings – Matrix Grid: Check for invalid device name and name in grid wizard • Extender & Devices – CPU Devices: Increased length of URL for type WEB to 128 characters • Improved memory usage
Fixed bugs		• Fixed links to manual and data sheets • Save Status: Improved error handling when loading and saving system log files • Extender & Devices – CON Devices\Favorites, User Settings – User & Groups\Favorites: Fixed the availability of CPUs if they are assigned to groups and user ACL or console ACL is active • User Settings – User & Groups\CPU Access Control: Disables assignment for admin and super user, as these users always have full access
V 3.8.3.1	2020-08-03	Modification
Fixed bugs		• Extender & Devices – CON Devices\GPIO: Ignore Fixed Ports when reading version of GPIO module • Save Status: Improved Exception handling when reading module log files
V 3.8.3.0	2020-05-07	Modification
Features and enhancements		• Support of new SNMP board (MATL21R, MATL6BP) • Status & Updates - Matrix Firmware Update: Support of firmware update for fan controller and power controller of a matrix switch • Status & Updates - Extender Firmware Update: Support of fast parallel update (490 & 495 series only) • Extender & Devices - CON Devices\GPIO: Support of favorites and macros in GPIO configuration

Improvements	• Status & Updates - Matrix Firmware Update: Firmware Update of redundant controller boards • Status & Updates - Extender Firmware Update: Reduced memory usage for update process • System Settings - System: Show OSD settings for LINUX CPU boards • System Settings - Matrix Grid\Offline Grid Wizard: Remove all unused entries from grid table • Extender & Devices - CPU Devices\IP Session Config: Added SSO Login option • Extender & Devices - CPU Devices\IP Session Config: Support of empty password • Extender & Devices - CON Devices\Macros, User Settings - User & Groups\Users\Macros: Added Local CPU switching via macros • System Check: Check for video codec incompatibility between extenders • System Check: Check extender MSD firmware incompatibility with GPIO add-on modules • CSV Export/Import: Support Fix Frame Color and CPU Color • Flash Update: Improved update process	
Fixed bugs	• Status & Updates - Extender Firmware Update: Skip UNI I/O boards in parallel update • System Settings - Network: Fixed bug in enabling/disabling syslog • System Settings - Matrix Grid\Grid Wizard: Fixed saving log file • System Settings - Matrix Grid\Grid Wizard: Fixed merge when adding a new matrix to an existing grid and changing the grid name • Extender & Devices - EXT Units\Firmware Version: Fixed shown port type (CAT X/Fiber) in grid environment	
V 3.8.2.2	2020-02-17	Modification
Fixed bugs	• Extender & Devices - Ext Units\USB-HID Ghosting: Fixed reading USB-HID Ghosting	
V 3.8.2.1	2020-02-04	Modification
Fixed bugs	• System Settings - Matrix Grid: Fixed Grid Wizard	

V 3.8.2.0	2020-01-28	Modification
Features and enhancements	• Support of Chinese language • SNMP-Board: Support of trap Link Status • Extender & Devices - EXT Units\Parameters: Support of parameter Framerate	
Improvements	• Increased number and size of tool logfiles • Status & Updates - Extender Firmware Update: Reduced memory during IPCPU system update	
Fixed bugs	• Save Status: Block creating of multiple instances on double-click • Reading Configuration: Catch and reset invalid values in configuration • Extender & Devices - CPU Devices: Fixed title • Extender & Devices - User: Fixed title • Status & Updates - Extender Firmware Update: Fixed IPCPU system update, mainly crashed on 576 • Status & Updates - Extender Firmware Update: Fixed firmware conversion from FZSDECON/CPU to FZVDXCON/CPU in parallel extender update • Help\Web Manual: Fixed missing links	
V 3.8.1.2	2019-11-27	Modification
Improvements	• Extender & Devices - EXT Units\Parameters: Support parameter Fiber Loss Detect	
Fixed bugs	• Extender & Devices - EXT Units\Firmware Version: Fixed data transfer info	
V 3.8.1.1	2019-11-20	Modification
Fixed bugs	• Reading Configuration: Catch invalid values	
V 3.8.1.0	2019-10-31	Modification
Features and enhancements	• Basic support of IPCON	

Improvements		• Extender & Devices - CPU Devices\IP Session Config: Support VMW configuration • Extender & Devices - CPU Devices\Monitor Arrangement: Added multiplier option to fix MSC 2.0 on some operating systems • Extender & Devices - CPU Devices\Monitor Arrangement: Replaced Resolution Dropdownfield by Textfield • Status & Updates - Extender Firmware Update: Support update of FZVDXCON and FZVDXCPU • Status & Updates - Extender Firmware Update: Support firmware conversion from FZSHRCON/CPU to FZVHRCON/CPU • Status & Updates - Extender Firmware Update: Support firmware conversion from FZSDECON/CPU to FZVDXCON/CPU • Increased number of app.log files • System Check: validate power supply status • System Check: validate redundant activity • Extender Restart: Improved notification in case of restart failure
Fixed bugs		• Status & Updates - Matrix Firmware Update: Avoid reading extender firmware after matrix update • Assignment - Multi-Screen Control: Fixed Arrangement update
V 3.8.0.0	2019-08-14	Modification
Features and enhancements		• Support of firmware Version 3.8 • Support of 1024 CPU Devices • Support of new Multi-Screen Control 2.0
Improvements		• View - Control: Added support of coloring of Screens and CPUs • Status & Updates - Matrix Firmware Update: Added dependency check between matrix firmware and IPCPU firmware • Extender & Devices - CPU Devices\CON Devices: Added support of name adoption for multi-head Devices • Extender & Devices - Ext Units\Parameters: Allow only DVI Only or HDMI Only at the same time • Improved validation of firmware strings

Fixed bugs		• Status & Updates - Matrix Firmware Update: Fixed mixed up messages • Connect: Fixed possible empty tab during connection process • Extender & Devices - Ext Units\Parameters: Fixed assignment of CON and CPU parameters • System Settings - Date and Time: Fixed setting day of week
V 3.7.0.2	2019-07-17	Modification
Improvements		• Status & Updates - Matrix Firmware Update\ Matrix Firmware Status: Improved version check
V 3.7.0.1	2019-07-12	Modification
Improvements		• Sorting in tables: Ignore case for sorting strings
Fixed bugs		• Status & Updates - Extender Firmware Update: Fixed reconnect after restart • User Settings - User & Groups\Groups\CPU Access Control: Enabled access rights for all type of groups • Extender & Devices - CPU Devices\CPU\CON Access Control & User Access Control: Fixed keyboard commands • Extender & Devices - CPU Devices\IP Session Config: Fixed field URL
V 3.7.0.0	2019-05-29	Modification
Features and enhancements		• Support of Matrix Firmware V03.07 • Support of user in multiple groups in LDAP • Support ECTOPCON • Support FZVDXCPU and FZVDXCON • Extender & Devices\EXT Units: Support of reading and writing of parameters

Improvements		• Extender & Devices - IP Session Config: Added Type WEB • Extender & Devices - CPU Devices: Changed button text • Extender & Devices - CON Devices\Macros, User Settings - User & Groups\Macros: Allow connections (Full Access) to CPU Groups • Extender & Devices - Ext Units\Server Settings: Added HotKey, improved data validation • Status & Updates\Miscellaneous: Renamed OSD Update in Custom UI Update • Status & Updates - Extender Firmware Update: Added compatibility checks for IPCPUSYS update
V 3.6.5.2	2019-05-16	Modification
Fixed bugs		• View-Matrix: Show I/O board in slot 20 of 160 Matrix
V 3.6.5.1	2019-05-07	Modification
Features and enhancements		• Support of ECTDLCON and ECTDLCPU
Improvements		• Allow pasting into the password field
V 3.6.5.0	2019-04-17	Modification
Features and enhancements		• Support of MODGPIO module • Support of EZTDLMSD update • Optional acoustic error notification for SYSLOG and SNMP
Improvements		• Configuration Report: Added Extender Modules • Save Status: Added app.log, CPU trace and i/o update.log • IPCPU: Added WEB-Mode • 576 Matrix: Matrix and extender firmware can be updated over one connection (Master CPU) • Update - Extender Firmware\Parallel Update: Improved stability of upload process • System Settings - Network\SNMP Trap Receiver: Added Select All checkbox • Extender & Devices - CPU Devices \ IP Session Config: Depending on the selected type, hide or show parameters

Fixed bugs		• Multi-Screen Control: Fixed free layout • Extender & Devices - CON Devices\Favorites, User & Groups - Users\Favorites: Fixed duplicated entries when a CPU is a group member • Update - Matrix Firmware / Update - Extender Firmware: Fixed cancel button
V 3.6.4.0	2019-02-15	Modification
Features and enhancements		• IPCPU: Support of fast application and system update over IP network • Support of encrypted data transfer on linux CPU boards • Extender & Devices - CPU Device\ IP Session Config: Added Audio Mode (Local / Remote)
Improvements		• System Check: Checking the memory availability on I/O boards • Status & Updates - Extender Firmware Update: Sequential update affects only a port not the entire I/O board • System Settings - Matrix Grid: Added option to edit info field in grid
Fixed bugs		• Fixed addressing of slot 36 in K480-576 • System Settings - Matrix Grid: Fixed bug when configuring a 576 matrix • Status & Updates - Extender Firmware on I/O Board: Show only extender firmware • Device Finder: Fixed bug in Master detection
V 3.6.3.0	2018-12-12	Modification
Features and enhancements		• Support of MODFAN
Improvements		• Connect: Open separate tab for master and slave CPU on K480-576 matrix • Status & Updates - Matrix Firmware Update: Optimized reinitialization process of I/O boards after restart
Fixed bugs		• Fixed sporadic deadlock of UI • Status & Updates - Matrix Firmware Update: Fixed validation of update compatibility rules

V 3.6.2.0	2018-11-15	Modification
Features and enhancements		• Extender & Devices - CPU Devices, CON Devices: Added Parameter Fix Frame Color • Support of FXTDLCPU, FXTDLCON, FZSHRCPU, FZVHRCON, FZVHRCPU, FZVOECON
Improvements		• Status & Updates - Matrix Firmware Update, Status & Updates - Extender Firmware Update: Added message window for detailed update messages • View - Grid: Detailed information about Grid Line usage
Fixed bugs		• View - Matrix: Fixed update of the grid ports • Extender & Devices - Tables: Fixed multi selection • Extender & Devices - CON Devices, Favorites: Fixed assignment of group members • User Settings - User & Groups, Favorites: Fixed assignment of group members • User Settings - User & Groups: Fixed LDAP label • Flash Update: Fixed firmware validation • Fixed sporadic deadlock of UI
V 3.6.1.1	2018-09-27	Modification
Improvements		• Syslog & SNMP: Added Signature field for email notification • Extender & Devices - CPU Devices: Added Parameter Exclusive Access
Fixed bugs		• Syslog & SNMP: Fixed email notification • Status & Updates - Matrix Firmware Update: Fixed time calculation in sequential mode • Extenders & Devices - Ext Units: Fixed restart of I/O boards after fixed port creation in grid environment • Extender & Devices - CON Devices: Fixed row selection in overview • Extender & Device - Ext Units, IP CPU: Fixed Timezone
V 3.6.1.0	2018-09-21	Modification
Features and enhancements		• Support OS Update of controller and I/O boards • IP Session Config: Added VNC option
Improvements		• Status & Updates - Miscellaneous, FPGA Design: New checks and more detailed info messages

Fixed bugs		• Status & Updates - Extender Firmware Update: Fixed parallel update • Fixed V03.03 firmware compatibility
V 3.6.0.0	2018-08-06	Modification
Features and enhancements		• Support of matrix firmware V03.06: e.g. IP CPU • Status & Updates - Extender Firmware Status: Display memory usage of I/O board • Flash Update: Support of EZTMSD, EZTIMSD, EZTDLMSD, EZTDZMSD, EZTDEMSED • Support of EXTIPCU, FCTICPU, FCTHRCPU, FZSDECON, FZSDECPU • User Settings - Users & Groups: Support AD Group Locked • TeraToolApp includes JRE 9 • View - Grid: New view, showing grid connections
Improvements		• System Settings - Matrix Grid: Validate firmware version in wizard • View - Control: Enhanced with chassis, extenders, and images, zoom • Extenders & Devices - CPU Devices: Moved CPU Groups to CPU Devices panel • Extenders & Devices - User: Moved User Groups to User panel • Extenders & Devices - Ext Units, Firmware Version: Improved update behavior • Save Status: Support of saving EDID, HID-Ghosting and Parameter settings • Rearrangement of Task pane • Status & Updates - Miscellaneous, FPGA Design: Check firmware version before update • New firmware version format • System Settings - Matrix Grid: SWITCH_01 as device name not allowed • Improved performance of communication between tool and matrix
Fixed bugs		• Status & Updates: Fixed conversion error for modules with slot id > 128 • Save Status: Reading serial on lower i/o boards of K480-576

V 3.5.5.3	2018-04-11	Modification
Fixed bugs		• Save Status: Opening of K480-576 status files • Status - Matrix View: Displaying of CPU board in K480-576 • Several fixes regarding JRE 9
V 3.5.5.2	2018-03-01	Modification
Improvements		• Support of firmware downgrade for new controller board and new I/O board • Administration - Miscellaneous\FPGA Update: Support primary design update
Fixed bugs		• Drag & Drop: Support of file extension in upper case and lower case • Status - Matrix View: Fixed blocking of UI, while reading network settings • Status - Matrix View: Fixed label of XV I/O boards • Definition - Groups: Fixed group unassignment • K480-576: Fixed access to slave CPU when master CPU is not accessible
V 3.5.5.1	2018-01-08	Modification
Fixed bugs		• Definition - User: Fixed distinguished name for LDAP users • Status - Matrix View: Show type name of new fiber I/O boards
V 3.5.5.0	2017-12-21	Modification
Features and enhancements		• Definition - Ext Units: Added link location info • Save Status: Optional anonymization of extender, device, and usernames
Improvements		• Save Status: Removed start button, save process will start automatically • Definition - CON Device, CPU Device: Changed maximum device ID to 32767 • System Check: Changed severity of cross connected gridlines from warning to info • Flash - Update: Deactivated for mac-os and linux systems • Control - Extended Switch: Improved performance of Reset

Fixed bugs		• Grid Port View: Support of reset for all extenders in the Matrix Grid • Assignment - Multi-Screen Control: Support of reset for all I/O boards in the Matrix Grid • Offline Configuration: Fixed default syslog facility • Offline Configuration: Fixed bug in cancel function of Ext Units, CON Devices, CPU Devices, User panels • Definition - CON Device, CPU Device: Fixed bug in apply function
V 3.5.4.0	2017-10-26	Modification
Features and enhancements		• Support of MATLPXP update (Controller board) • Support of 474-BSS • Support of 474-BAE • Device Finder: Show grid master • System Check: Quick link to extenders, devices and users in definition panels
Improvements		• Allow optional sequential I/O board update on compact switch • Definition - Ext Units\EDID, USB-HID Ghosting, Parameters: Improved error handling • Definition - Ext Units\Version: Increased table height to show all possible rows • Monitoring: Show confirmation dialog before closing the tool • Flash Update: Optimized layout of update panel
Fixed bugs		• Definition - Ext Units: Hide EDID and ghost tab for SDI CPU extender • Definition - Ext Units: Check validity of extender before version request • Status - SNMP: Fixed numbering order • Jerking in text area • Showing change marker although there have been no changes • System Check: failed in systems with more than 127 modules • New Configuration: Set default facility for Syslog server 1 and Syslog server 2

V 3.5.3.0	2017-09-11	Modification
Features and enhancements		• New Flat UI • Status - Control View: Custom monitor layout and user-friendly monitoring of all connections and managing of interconnection between CPUs and Consoles. • Definition - Ext Units: Support reading and writing of Parameters on CPU extenders • Status - Matrix View: Showing system status (temp, fan, power supply) when clicking on chassis
Improvements		• Administration - Matrix Firmware Update: Improved update selection und execution process
Fixed bugs		• Control - Extended Switch: Show virtual consoles • Flash Update: Fixed bug with Windows 10
V 3.5.2.2	2017-08-31	Modification
Fixed bugs		• Assignment - Multi-Screen Control: Fixed request of OSD firmware version
V 3.5.2.1	2017-08-28	Modification
Fixed bugs		• Assignment - Multi-Screen Control: Fixed detection of 8 screen support • Administration - Matrix Firmware Update: Fixed MATLOSD and MATLVOSD update
V 3.5.2.0	2017-08-04	Modification
Features and enhancements		• Assignment - Multi-Screen Control: Supports up to 8 screens with horizontal, block and free layout. • Support of new I/O board
Improvements		• Administration - Matrix Firmware Update: Show restart confirm dialog after firmware update of a single I/O board
Fixed bugs		• Administration - Extender Update: Fixed bug in firmware version comparison • KM-Switch MSC Configurator: Fixed 8 screen block layout
V 3.5.1.0	2017-07-06	Modification
Features and enhancements		• Definition - CON Units: Support of new parameter CPU Colors • Definition - CPU Units: Support of new parameter CPU Colors
Improvements		• Improved in reading and writing of EDID and HID Ghost

Fixed bugs		• Definition - CON Units: Set CPUs to Full Access when Enable New CON is enabled
V 3.5.0.0	2017-06-06	Modification
Features and enhancements		• Support of matrix firmware V03.05: e.g. User groups, CPU groups, advanced LDAP support • Monitoring - SNMP: New SNMP server for receiving SNMP traps, configurable notification per email
Improvements		• Monitoring - Syslog: Configurable notification per email • Improved performance in big configurations • EXTICPU, EXTICON: Optimized estimation for update duration • Disabled Disconnect and Save Status when loaded a status file • Encrypted defaults.cfg
Fixed bugs		• Added missing graphic for L490-BPHXR • Definition - Ext Units: Fixed tab management (show/hide)
V 3.4.3.0	2017-04-05	Modification
Features and enhancements		• Support of SDI Extender
Improvements		• Matrix Grid: Improved merge process • Matrix Grid: Disable matrix grid on master when master is deleted from grid table • Definition - CPU Device: Allow CON Access Control assignment and User Access Control assignment for virtual CPUs • Matrix View: Changed position of redundant controller board for the 288-port matrix
Fixed bugs		• Reset of assignment on real CON Device when deleting assigned virtual CON Device • Reset of assignment on virtual CPU Device when deleting assigned real CPU Device • Definition - CPU Devices: Enabling of Apply Button in CON Access Control and User Access Control • Definition - CPU Devices: Reset of access rights on CON Devices and Users when deleting a CPU Device
V 3.4.2.0	2017-03-15	Modification
Features and enhancements		• Extender Update- Parallel Mode: Optional I/O board reset before starting the upload to get the maximum of free memory

Improvements		• Improved Extender Flash Update • Improved performance of extender firmware upload
Fixed bugs		• Definition - Ext Units: Fixed possible blocking of UI during reload
V 3.4.1.0	2017-02-14	Modification
Features and enhancements		• Support of new controller board • Support of reading and writing USB-HID Ghost • Support of reading and writing EDID
Improvements		• Improved error handling in Save Status • Improved memory management • Strict Validation of Device name. Device name must conform to RFC 952 • System - Network / SNMP / Trap Receiver 1/2: Added Power Supply 4
Fixed bugs		• System Data: fixed cancel of changes for Load Default, Remove I/O Boards and Online Configuration • Login with Device name led to crash during Save Status
V 3.4.0.0	2016-12-16	Modification
Features and enhancements		• Status - Matrix: New matrix status information • Support of new login authentication mode
Fixed bugs		• Fixed network interface detection for secondary controller board
V 3.3.1.0	2016-11-23	Modification
Features and enhancements		• System - Matrix Grid: New Offline Grid Wizard in status and configuration files • Assignment - Virtual CPU Assignment: Allow assignment of a real CPU to multiple virtual CPU's • Macro - Assign CPU, Assign CON: Added Remove Assignment parameter
Improvements		• File Upload/Download communication improved • System - Matrix Grid: Improved communication between TeraTool and matrix in Online Grid Wizard • Reduced communication between TeraTool and matrix
Fixed bugs		• Matrix View: Fixed missing SFP label for fiber cards • Macros: Fixed incomplete macro clean up when deleting consoles or user • System - Matrix Grid: Fixed bug in merge of macros

V 3.3.0.1	2016-10-11	Modification
Features and enhancements		• Support of display port CPU extender with FZVDECPU firmware
Fixed bugs		• Fixed possible blocking of Matrix View during I/O type detection
V 3.3.0.0	2016-09-29	Modification
Features and enhancements		• Support of redundant CPU boards • Flash Update: New extender firmware update wizard • Definition - CON Devices: Added OSD Disabled parameter • System - Access: New parameter OR User/CON ACL • System - Access: New parameter AND User/CON ACL • System - Switch: New parameter Macro Single Step • Support of Multicast communication
Improvements		• Significant improvement of Matrix Firmware Update performance for matrix firmware $\geq$ V03.03 • Save Status: Check device name for invalid characters • Show configuration file version in status bar • Matrix Grid: When merging a configuration, the new fixed port position in the grid will be calculated. Reduced network traffic. Improved messages in message panel.
Fixed bugs		• Fixed Matrix Firmware Update when using 1G and 3G I/O boards in the same matrix • Save Status: Fixed reading detailed extender information in grid • Matrix Grid - Merge: Fixed initialization of user • Connect-Dialog: fixed URL encoding • This version does not support matrix firmware older than V03.00!
V 3.1.2.3	2016-05-12	Modification
Fixed bugs		• Fixed I/O port background color for unused ports
V 3.1.2.2	2016-05-02	Modification
Improvements		• Save Status: More detailed information while saving extender status • Multi-Screen Control: More detailed information in Matrix View and Grid Port View by highlighting invalid and not available CON Devices • Matrix View: Display fiber XV I/O boards as XV instead of SFP

Fixed bugs		• Fixed Drag&Drop of files for JRE 1.8.0_91 on Linux and OS X • Display ports with invalid status as invalid ports
V 3.1.2.1	2016-04-08	Modification
Improvements		• Optimized memory management
Fixed bugs		• Definition Panels: fixed reload function • Extender CVS Import: fixed import
V 3.2.0.0	2016-03-23	Modification
Features and enhancements		• Support of Draco tera 576 • CON Devices: New Show Macro List option • Matrix View / Grid Port View: New Reset Extender command in context menu of matrix port • Matrix View / Grid Port View: Show detailed Routing Information • Save Status: New option Save Status of all matrices in the grid
Improvements		• Support of 32 macro keys • Support of 24 matrices in grid • Optimized memory management
Fixed bugs		• Definition Panels: fixed reload function
V 3.1.2.0	2016-03-17	Modification
Features and enhancements		• Flash Update: New U-Switch firmware update wizard
Improvements		• Support Grid Board • Support Single I/O Board update • Matrix Firmware Update / Extender Firmware Update - Sequential Mode: Added Additional selection options button to display table selection options
Fixed bugs		• KM-Switch MSC Configurator: fixed block layout for 8-port draco U-Switch. • Fixed IP text field
V 3.1.1.0	2015-12-01	Modification
Features and enhancements		• KM-Switch MSC Configurator: New multi-screen control configurator for draco U-Switch. Horizontal, vertical, block and free layout supported. • Matrix View / Grid Port View: Display usage of Grid Lines
Improvements		• Improved communication between TeraTool and matrix grid

V 3.1.0.2	2015-10-20	Modification
Improvements		• Advanced support of 474-SNMP
Fixed bugs		• Macros: Fixed P2 selection in User/CON Device Macros • Definition - Ext Units: Use of secondary port to get firmware version information, if primary port is not connected • Monitoring: Ensuring that monitoring toolbar button will be reenabled when monitoring tab is closed • New Configuration: Fixed new configuration file creation
V 3.1.0.1	2015-08-10	Modification
Improvements		• Device Finder: Automatic start of Device Finder upon opening the Tera Tool (can be set in Extras) • Several performance improvements
Fixed bugs		• Definition - User: Fixed blocking UI when creating a new user
V 3.1.0.0	2015-06-22	Modification
Features and enhancements		• Full Redundancy Support • System - Network: Support of second syslog server and configurable syslog port • System - Network: Support of second SNMP trap receiver • System - Network: Support of LDAP • Support of SNMP-Board • Network Check: Check availability of FTP, API and Syslog connections and ports
Improvements		• Status - Matrix View: Display of slot number for draco tera enterprise matrices
V 3.0.4.2	2015-05-12	Modification
Features and enhancements		• Macros: Added Current User as parameter
V 3.0.4.1	2015-05-07	Modification
Features and enhancements		• Administration - Miscellaneous: New panel for updating CPU-board and I/O-board FPGA design
Improvements		• Administration - Miscellaneous: Improved OSD Update panel • Ext Firmware Update: Optimized reload of firmware information

V 3.0.4.0	2015-04-22	Modification
Features and enhancements		• Definition - CPU Devices: New CON Access Control and User Access Control panels • Administration - Miscellaneous: New update panel for updating visual appearance of OSD • Support of extender creation in offline mode • Support of CSV import for new extender in offline mode • Definition - EXT Units: new Firmware Version panel • Support of Russian encoding (windows-1251)
Improvements		• Status - Matrix View: Port numbers can be shown as local or grid port numbers • Matrix Firmware: Mark matrix firmware conflicts in grid • Administration - Update EXT Firmware: Optimized Update View in Parallel Mode • System - Network: Displaying default syslog and SNMP ports
Fixed bugs		• Definition - EXT Units: Prevention of various exceptions • Extender Assignment: Do not allow Drag&Drop of empty rows • Switch communication: Fixed error in LAN Echo management
V 3.0.3.2	2014-11-21	Modification
Improvements		• Firmware Panels: Improved reload performance
Fixed bugs		• Update Ext Firmware - Parallel Update: Fixed update duration calculation
V 3.0.3.1	2014-11-13	Modification
Improvements		• Save Status: Improved functionality • Update Ext Firmware - Sequential Update: Improved performance • Grid: Display Master and Sub in tab title
Fixed bugs		• License Management: Fixed serial number in status zip file in grid environment
V 3.0.3.0	2014-09-15	Modification
Features and enhancements		• Support of EXTICON, EXTDPCON, EXTDPCPU, MATXUNI • Added new sort buttons to favorites assignment and extender assignment

Improvements		• Optimized memory management • Shutdown Matrix: Improved shutdown message • Restart Matrix: Changed restart behavior after matrix firmware updates • Optimized data management in Status - Matrix Firmware and Status - EXT Firmware • Show offline matrices in a different color in Status - Matrix Firmware and Status - EXT Firmware • Added context menu actions to Status - EXT Firmware / Component View • Matrix Grid: Added Keep ID option • System Check: Check Invalid I/O Board parameter
Fixed bugs		• Fixed restart of I/O board in Grid Port View
V 3.0.2.1	2014-07-01	Modification
Improvements		• Optimized License Management view
Fixed bugs		• Update EXT Firmware: Fixed calculation of update duration in parallel update mode
V 3.0.2.0	2014-06-13	Modification
Features and enhancements		• Validation of EXTMSD / EXTIMSD version in System Check and Extender Firmware View • Added Drag&Drop support in Extender Assignment, Favorites and CPU Access Control View • Added Save button to toolbar to save configuration changes instantly on the matrix • Syslog: Added new filter options and search functions
Improvements		• Save Status saves all serials and firmware versions within a Matrix Grid • Optimized loading time in Status EXT Firmware
Fixed bugs		• Fixed possible NullPointerException in syslog • Reload port status before executing Save Status • Multi-Screen Control: Show correct values in Enabled column

V 3.0.1.0	2014-04-11	Modification
Features and enhancements		• Support of Matrix Shutdown • Added Device Finder functionality • Added Redundancy parameter to System Data and CON Devices • Added OSD Position defaults to EXT Units - Extender OSD Data
Improvements		• Added toolbar button text • Added scrollbar to Multi-Screen Control panel • Added MAC-Address text field to System - Network • Optimized initialization process of Matrix View • Allow activation of Echo Only and Synchronize at once
Fixed bugs		• Fixed master detection in grid environment • Fixed blocking of Activate Configuration when executing on multiple connections at the same time
V 3.0.0.0	2014-02-07	Modification
Features and enhancements		• Support of Matrix Grid - Matrix Grid Configuration Wizard - Grid Port View - Enhanced Matrix and EXT Firmware View • Syslog: Support of daily logfiles • Syslog: Added Autostart option • Status - Ext Firmware: New Component View • Support of Dual-Link extenders • Added matrix status LED in status bar
Improvements		• Administration - Activate Configuration: Added version column • Macros: Toolbar buttons replaces context menu • Macros: Added visual overview of various configured macros • Definition panels: New text for New and Delete buttons • System - Network: Show current IP Address in DHCP mode • Configuration Report: Now supports the saving of System settings • Optimized performance on config reload • Changed sorting order in syslog trace file • Improved extender update process • Assignment - Multi-Screen Control: Show restart I/O board dialog
Fixed bugs		• Assignment - Multi-Screen Control: Fixed enable/disable bug • Extender Assignment: Fixed sorting of port column

V 1.9.5	2013-11-28	Modification
Features and enhancements		• Definition - EXT Units: Support of new Video Mode 1280x800. • Definition - CON Device: New Parameter Port Mode
V 1.9.4	2013-09-04	Modification
Features and enhancements		• System - System Data: New parameter Echo Only
Improvements		• Support of Universal I/O boards and extender • Added Select All checkbox to Assign Settings to... / Copy Settings from...
Fixed bugs		• Fixed displaying of warnings/errors in Status - EXT Firmware • Fixed selection of first table row in Multi-Screen Control • Fixed wrong description in System Validation
V 1.9.3	2013-06-26	Modification
Features and enhancements		• System - System Data: New parameter Load Default
Improvements		• Improved Factory Reset of I/O Boards action • Differentiation between connection error and user/pwd error in connection dialog • Optimized protocol messages after firmware upload and reload • Show Message on Syslog start-up when syslog port is already in use • Allow changes in Ext Units - General OSD Data for custom CON ports
Fixed bugs		• Fixed Save Status on Mac OS X • Fixed reload after firmware upload
V 1.9.2	2013-06-14	Modification
Features and enhancements		• System Check

Improvements		• Syslog supports autostart function • Improved FTP communication • Improved upload of extender firmware • Support of Keyboard layout English GB, 166 • Extender ID is no longer allowed to be changed in Definition - EXT Units • Additional tooltips to System Data - OSD Data • Save Status includes trace.log and ioboard.log • Support of Login User macro • Improved table filter option in definition panels • Improved displaying of warnings/errors in Status - EXT Firmware • Support of Factory Reset
Fixed bugs		• Password field in Connect Dialog supports special characters • When configuration mode is activated, the context menu of the macro table is enabled • Fixed time display in update progress bar • Fixed AppName position in syslog
V 1.9.1	2013-03-15	Modification
Fixed bugs		• Fixed ACL Assignment in CON Devices • Fixed setting of date in Date and Time
V 1.9.0	2013-02-15	Modification
Features and enhancements		• Support of SNTP protocol • Set date and time in Date and Time • New parameters for a CPU Device Scanner in CON Devices • Support of Multi-Screen Control • Display I/O Board and CPU Board serial numbers in Matrix Firmware • Support of SNMP Trap configuration • Restart of I/O Boards by using the Matrix View context menu • New parameter Enable Old Echo to support old echo format

Improvements		• Added new parameters to Configuration Report, optimized representation of EXT Units reports • Full switching support of custom extenders in Matrix View • Additional video mode in Ext Units - General OSD Data in a resolution of 1920 x 1200 • Optimized templates dialog in CPU Devices and CON Devices • Added Online Configuration Mode to toolbar • Optimized sorting in Virtual CON Devices and Virtual CPU Devices • Support of French (CH) as a new keyboard layout • Syslog will continue running in the background if syslog tab is closed • Syslog log files support csv format
Fixed bugs		• Fixed commit of changes in Copy Settings From dialog when Online Configuration Mode is activated • Fixed cancel of changes in checkboxes • Changes in IP text field leads to activation of apply buttons • Fixed crash in Save Status
V 1.8.1	2012-12-13	Modification
Improvements		• Improved visualization of Online Configuration Mode • Allow user without password • Improved handling of corrupt configurations
Fixed bugs		• Fixed broken Custom Extender Assignment in CPU Devices and CON Devices • Removed double call of Modification Detected Dialog in Definition Panels after pressing Cancel Button

V 1.8.0	2012-11-28	Modification
Features and enhancements		• Parallel Extender Update • Online Configuration Mode • Switching per Drag & Drop in Matrix View • Disconnect Console from CPU in Matrix View • Support of Syslog Protocol • License management implemented • Number of Favorites increased to 16 • Distributed firmware update of extenders via IO boards • Extender OSD Data tab to change extender OSD settings in EXT Units • FIX Frame option for CPU devices adds a semi-transparent colored frame to the video • Private access is now a property of the CPU device and is also supported by Macros and Favorites • Basic support of SNMP service • Macros offer simplified Push/Get functions
Improvements		• Added Definition - User to Configuration Reports • Improved Extended Switch View, supports Private Mode • Improved Presets View, supports Private Mode • Drag & Drop support for Firmware files (*.tfw, *.efw) • Replaced assignment dialog by assignment wizard in Definition panels • Function Reset Matrix renamed to Factory Reset • Function Draco Service renamed to API Service
Fixed bugs		• Remove all connections when deleting CPU Device • Enable all OSD checkboxes in Update Matrix Firmware
V 1.7.1	2012-08-01	Modification
Features and enhancements		• Support of TERA048c
Improvements		• Added port number column to Extender Assignment table • Show Matrix View in Online Mode on startup • New Custom Template for fixed port extender in Definition - EXT Units
Fixed bugs		• Fixed focus problems in Download Dialog

V 1.7.0	2012-06-06	Modification
Features and enhancements		• Configuration Reports in PDF format • Enable/Disable Automatic reload of Matrix View • Show network connection state in Matrix View • Show/Hide Port numbers in Matrix View
Improvements		• Improved usability and layout of EXT Firmware • Improved usability and layout of Update EXT Firmware • Improved Standard and Expert View for extender types in Ext Units • Improved Upload and Download Dialog
Fixed bugs		• Fixed bug which occurred during data communication when Echo Mode is activated • Fixed problems with Video-only connections in Presets • Fixed error in configuration file upload and download with JRE 7+ and Windows 7
V 1.6.2	2012-04-18	Modification
Features and enhancements		• Demo mode (Connection to IP address 255.255.255.255 opens files named demo.dtf and demo.dtc in the tool directory for demo purposes)
Improvements		• Supports switching of Virtual CON Devices • Added Private Mode state to Matrix View • Show Invalid Ports in Matrix View, e.g. when a Fixed Port Extender is connected to port which is not a fixed port • Download of config files requires admin rights • Show assigned device of a Fixed Port Extender in MatrixView property sheet • Changes in Optionsdialog will be activated without application restart • Renamed Switch Macros to Presets • Drag & Drop support for config files (mac os & windows)
Fixed bugs		• Load Firmware displays Matrix View again • Configuration upload with a wrong password shows a error message • Disabled upload of firmware files (*.dtf) • Avoid sending of connection data in Extended Switch in case of cancelling CPU Device selection

V 1.6.1	2012-03-09	Modification
Improvements		• New connection management between application and Matrix • Added legend to Matrix View • Supports new module and extender names • Upload of config files requires admin rights
Fixed bugs		• No blocking of application when closing tab • Activation of Enable New User, Enable New CON enables all CPUs for a new user or new console
V 1.6.0	2012-02-10	Modification
Features and enhancements		• CON Macros • User Macros
Improvements		• Show Slot ID in Matrix View • Addition of IP Address column to Activate Configuration table • Expand Matrix Firmware views by default • Different firmware states are colored in Matrix Firmware views • Show CPU Devices in Favorites - Available CPU table in dependency of Console ACL's state • Optimized matrix restart • Addition of tooltip to CPU port in Matrix View
Fixed bugs		• Allow Cancel on changes in User Favorites • Fixed refresh of Update Ext Firmware
V 1.5.0	2011-12-22	Modification
Features and enhancements		• Switch Macros • Options dialog for default settings • Encrypted configuration files • System - Access: New parameters Enable New User and Enable New CON • Reset button to reset all connections in Extended Switch

Improvements		• Redesign of Matrix View representation • Selection behavior of IO-Boards in Update Matrix Firmware • Optimized performance when creating new devices in big configurations • Renamed and reordered task names • Optimized representation on Mac • Added multi-selection in overview tables • Added row number in overview tables • Added port to Extender tables • Added columns Current Version and Current Date to Update Matrix Firmware and Update EXT Firmware update views
Fixed bugs		• Fixed context menus on Mac • Removed Fixed Ports from global view of Update EXT Firmware • Fixed blocking of Definition views when selecting Hide Devices w/o Extender Assignment checkbox in Extended Switch
V 1.4.2	2011-11-10	Modification
Improvements		• Reduced time for loading configuration • Reduced time for extender update by restarting matrix instead of restarting IO cards
V 1.4.1	2011-11-07	Modification
Improvements		• Green shared icon added to Matrix View and Switch Console to CPU • Virtual CPUs added to Favorites list
Fixed bugs		• Assignment of real to virtual consoles added to online mode • Fixed tree view update when expanding and collapsing per mouse in Matrix Firmware and Update Matrix Firmware

V 1.4.0	2011-11-04	Modification
Features and enhancements		• CPUs are configurable as favorites in User Data and CON Devices • Connect with hostname or IP address in connection dialog • IP is replaced by hostname in defaults.cfg • New icons in Matrix View and Switch Console to CPU to display Shared Access • Users are pointed out to save changes before program exit • Remember last selection in template dialog of EXT Units, CPU Units, CON Devices and User Data • Restrict access rights of Power User to Matrix View and Switch Console to CPU panels • Checkbox to hide devices without extender assignment in Switch Console to CPU
Improvements		• Context menu added to Switch Console to CPU
Fixed bugs		• Enter does not work in finish panel of import/export dialog • Fixed Offline configuration of Video Only Access in Switch Console to CPU • Fixed Configuration of KVM sharing in Switch Console to CPU when Auto Send is disabled • Dialog of Upload action in toolbar now appears every time • If there are changes when closing the application, only one save dialog will be shown
V 1.3.2	2011-10-13	Modification
Fixed bugs		• Update Matrix Firmware, Update Ext Firmware: Deselect disabled checkboxes in column Update • Virtual to Real CPU assignment does not work
V 1.3.1	2011-10-11	Modification
Improvements		• Optimized Extender Firmware update process • Added Service Mode state in Matrix Firmware view • Show wait cursor during expanding tree view in Matrix Firmware view

Fixed bugs		• Removed repeating update in Single Firmware Update • Wrong Fixed Port validation in Ext Units • Fixed Collapsing of Matrix Firmware view after directory change • Fixed wrong background error color for Upgrade Modules in Update EXT Firmware tables • Non-Administration panels are disabled in Service Mode • Fixed broken support dialog
V 1.3.0	2011-09-26	Modification
Features and enhancements		• Supports Extender Updates • CON Device: New parameter, LOS Frame • Relative pathnames in defaults.cfg • Improved directory management in FileChooser-Dialogs • System Data Panel: Slave definition revised & clarified
Fixed bugs		• Restart Switch needs admin rights • Switch Console to CPU: Fixed KVM sharing bug in Auto Send mode • Update Matrix Firmware: Fixed Update problem when a default path is selected • Fixed communication errors in LAN Echo mode
V 1.2.0	2011-08-19	Modification
Features and enhancements		• Loading and saving of firmware status • Filterable dropdown box in tables • Auto send function in Switch Console to CPU, Real to Virtual Console and Virtual to Real CPU • Matrix View: Port number is flashing when selected • Firmware Update: Supports OSD and HID updates • Drag & drop file open support (windows only) • CON Device: New parameters, Allow Login and Force Login • Ext Units: New parameter, Video Mode • Restart switch action
Fixed bugs		• Fixed selection problem in sorted and filtered tables • Fixed incomplete reloads in some views