Draco Tera Tool

System Requirements

Operating system	Microsoft Windows	• Windows 10, Windows 11 • Free memory of 1 GB recommended
	macOS	• macOS 10.14 (Mojave) or higher • Free memory of 1GB 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/ojdkbuild/ojdkbuild • On Windows operating systems, the portable tool **TeraToolApp** requires no Java installation

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 USBEHS3 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, FZSHRCON, 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, EZTDEMSD • 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 >= 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** propertysheet • 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