

Draco Tera Tool

System Requirements

Operating system	Microsoft Windows	<ul style="list-style-type: none">• Windows 10, Windows 11• Free memory of 1 GB recommended
	macOS	<ul style="list-style-type: none">• macOS 10.14 (Mojave) or higher• Free memory of 1GB recommended
Specification	Java	<ul style="list-style-type: none">• Java 11 is the minimum version required. However, we recommend using a newer version of Java. (https://adoptopenjdk.net, https://github.com/adoptopenjdk/adoptopenjdk)• On Windows operating systems, the portable tool TeraToolApp requires no Java installation

V 5.5.2.2 2024-10-10 Modification

Fixed bugs	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Fixed SSL communication• Fixed JRE in TeraToolApp

V 5.5.0.0	2024-05-02	Modification
Features and enhancements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Status & Updates – Update Matrix Firmware: Added hardware compatibility check.

V 5.4.1.0	2023-11-30	Modification
Features and enhancements		<ul style="list-style-type: none"> • New filter option for all tables (e.g. in EXT Unit Assignment, CPU Device Access Control, Favorites, ..)
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • View – Matrix / Assignment – Multi-Screen Control: Show MSC temporarily off • Extender & Devices – CON Devices: Added parameter USB Off
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Support access of remote extender in chassis with SNMP board or SNMP functionality.• Support Extender locate functionality
Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Status & Updates - Update Matrix Firmware: Fixed system validation before update

V 4.0.3.0	2021-05-19	Modification
Features and enhancements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Extender & Devices – EXT Units\Parameters: Fixed MSD support date of ENAREDFRAME parameter
V 4.0.0.0	2020-10-15	Modification
Features and enhancements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Extender & Devices - Ext Units\USB-HID Ghosting: Fixed reading USB-HID Ghosting
V 3.8.2.1	2020-02-04	Modification
Fixed bugs		<ul style="list-style-type: none">• System Settings - Matrix Grid: Fixed Grid Wizard

V 3.8.2.0	2020-01-28	Modification
Features and enhancements	<ul style="list-style-type: none"> • Support of Chinese language • SNMP-Board: Support of trap Link Status • Extender & Devices - EXT Units\Parameters: Support of parameter Framerate 	
Improvements	<ul style="list-style-type: none"> • Increased number and size of tool logfiles • Status & Updates - Extender Firmware Update: Reduced memory during IPCPU system update 	
Fixed bugs	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Extender & Devices - EXT Units\Parameters: Support parameter Fiber Loss Detect 	
Fixed bugs	<ul style="list-style-type: none"> • Extender & Devices - EXT Units\Firmware Version: Fixed data transfer info 	
V 3.8.1.1	2019-11-20	Modification
Fixed bugs	<ul style="list-style-type: none"> • Reading Configuration: Catch invalid values 	
V 3.8.1.0	2019-10-31	Modification
Features and enhancements	<ul style="list-style-type: none"> • Basic support of IPCON 	

Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Support of firmware Version 3.8• Support of 1024 CPU Devices• Support of new Multi-Screen Control 2.0
Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Status & Updates - Matrix Firmware Update\ Matrix Firmware Status: Improved version check
V 3.7.0.1	2019-07-12	Modification
Improvements		<ul style="list-style-type: none"> • Sorting in tables: Ignore case for sorting strings
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• View-Matrix: Show I/O board in slot 20 of 160 Matrix
V 3.6.5.1	2019-05-07	Modification
Features and enhancements		<ul style="list-style-type: none">• Support of ECTDLCON and ECTDLCPU
Improvements		<ul style="list-style-type: none">• Allow pasting into the password field
V 3.6.5.0	2019-04-17	Modification
Features and enhancements		<ul style="list-style-type: none">• Support of MODGPIO module• Support of EZTDLMSD update• Optional acoustic error notification for SYSLOG and SNMP
Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Support of MODFAN
Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • Extender & Devices - CPU Devices, CON Devices: Added Parameter Fix Frame Color • Support of FXTDLCPU, FXTDLCON, FZSHRCPU, FZVHRCON, FZVHRCPU, FZVOECON
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Syslog & SNMP: Added Signature field for email notification • Extender & Devices - CPU Devices: Added Parameter Exclusive Access
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Support OS Update of controller and I/O boards • IP Session Config: Added VNC option
Improvements		<ul style="list-style-type: none"> • Status & Updates - Miscellaneous, FPGA Design: New checks and more detailed info messages

Fixed bugs		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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, EZTDEMMSD• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Support of firmware downgrade for new controller board and new I/O board • Administration - Miscellaneous\FPGA Update: Support primary design update 	
Fixed bugs	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Definition - Ext Units: Added link location info • Save Status: Optional anonymization of extender, device, and usernames 	
Improvements	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Administration - Matrix Firmware Update: Improved update selection und execution process
Fixed bugs		<ul style="list-style-type: none"> • Control - Extended Switch: Show virtual consoles • Flash Update: Fixed bug with Windows 10
V 3.5.2.2	2017-08-31	Modification
Fixed bugs		<ul style="list-style-type: none"> • Assignment - Multi-Screen Control: Fixed request of OSD firmware version
V 3.5.2.1	2017-08-28	Modification
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Assignment - Multi-Screen Control: Supports up to 8 screens with horizontal, block and free layout. • Support of new I/O board
Improvements		<ul style="list-style-type: none"> • Administration - Matrix Firmware Update: Show restart confirm dialog after firmware update of a single I/O board
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Definition - CON Units: Support of new parameter CPU Colors • Definition - CPU Units: Support of new parameter CPU Colors
Improvements		<ul style="list-style-type: none"> • Improved in reading and writing of EDID and HID Ghost

Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Support of SDI Extender
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Extender Update- Parallel Mode: Optional I/O board reset before starting the upload to get the maximum of free memory

Improvements		<ul style="list-style-type: none">• Improved Extender Flash Update• Improved performance of extender firmware upload
Fixed bugs		<ul style="list-style-type: none">• Definition - Ext Units: Fixed possible blocking of UI during reload
V 3.4.1.0	2017-02-14	Modification
Features and enhancements		<ul style="list-style-type: none">• Support of new controller board• Support of reading and writing USB-HID Ghost• Support of reading and writing EDID
Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Status - Matrix: New matrix status information• Support of new login authentication mode
Fixed bugs		<ul style="list-style-type: none">• Fixed network interface detection for secondary controller board
V 3.3.1.0	2016-11-23	Modification
Features and enhancements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • Support of display port CPU extender with FZVDECPU firmware
Fixed bugs		<ul style="list-style-type: none"> • Fixed possible blocking of Matrix View during I/O type detection
V 3.3.0.0	2016-09-29	Modification
Features and enhancements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Fixed I/O port background color for unused ports
V 3.1.2.2	2016-05-02	Modification
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Optimized memory management
Fixed bugs		<ul style="list-style-type: none">• Definition Panels: fixed reload function• Extender CVS Import: fixed import
V 3.2.0.0	2016-03-23	Modification
Features and enhancements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Support of 32 macro keys• Support of 24 matrices in grid• Optimized memory management
Fixed bugs		<ul style="list-style-type: none">• Definition Panels: fixed reload function
V 3.1.2.0	2016-03-17	Modification
Features and enhancements		<ul style="list-style-type: none">• Flash Update: New U-Switch firmware update wizard
Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Improved communication between TeraTool and matrix grid

V 3.1.0.2	2015-10-20	Modification
Improvements		<ul style="list-style-type: none"> • Advanced support of 474-SNMP
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Device Finder: Automatic start of Device Finder upon opening the Tera Tool (can be set in Extras) • Several performance improvements
Fixed bugs		<ul style="list-style-type: none"> • Definition - User: Fixed blocking UI when creating a new user
V 3.1.0.0	2015-06-22	Modification
Features and enhancements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Status - Matrix View: Display of slot number for draco tera enterprise matrices
V 3.0.4.2	2015-05-12	Modification
Features and enhancements		<ul style="list-style-type: none"> • Macros: Added Current User as parameter
V 3.0.4.1	2015-05-07	Modification
Features and enhancements		<ul style="list-style-type: none"> • Administration - Miscellaneous: New panel for updating CPU-board and I/O-board FPGA design
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Firmware Panels: Improved reload performance
Fixed bugs		<ul style="list-style-type: none"> • Update Ext Firmware - Parallel Update: Fixed update duration calculation
V 3.0.3.1	2014-11-13	Modification
Improvements		<ul style="list-style-type: none"> • Save Status: Improved functionality • Update Ext Firmware - Sequential Update: Improved performance • Grid: Display Master and Sub in tab title
Fixed bugs		<ul style="list-style-type: none"> • License Management: Fixed serial number in status zip file in grid environment
V 3.0.3.0	2014-09-15	Modification
Features and enhancements		<ul style="list-style-type: none"> • Support of EXTICON, EXTDPCON, EXTDPCPU, MATXUNI • Added new sort buttons to favorites assignment and extender assignment

Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Fixed restart of I/O board in Grid Port View
V 3.0.2.1	2014-07-01	Modification
Improvements		<ul style="list-style-type: none">• Optimized License Management view
Fixed bugs		<ul style="list-style-type: none">• Update EXT Firmware: Fixed calculation of update duration in parallel update mode
V 3.0.2.0	2014-06-13	Modification
Features and enhancements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Save Status saves all serials and firmware versions within a Matrix Grid• Optimized loading time in Status EXT Firmware
Fixed bugs		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Support of Matrix Grid <ul style="list-style-type: none"> - 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • System - System Data: New parameter Echo Only
Improvements		<ul style="list-style-type: none"> • Support of Universal I/O boards and extender • Added Select All checkbox to Assign Settings to... / Copy Settings from...
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • System - System Data: New parameter Load Default
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Fixed Save Status on Mac OS X • Fixed reload after firmware upload
V 1.9.2	2013-06-14	Modification
Features and enhancements		<ul style="list-style-type: none"> • System Check

Improvements		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none">• Improved visualization of Online Configuration Mode• Allow user without password• Improved handling of corrupt configurations
Fixed bugs		<ul style="list-style-type: none">• 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Support of TERA048c
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Fixed focus problems in Download Dialog

V 1.7.0	2012-06-06	Modification
Features and enhancements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • CON Macros • User Macros
Improvements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Allow Cancel on changes in User Favorites • Fixed refresh of Update Ext Firmware
V 1.5.0	2011-12-22	Modification
Features and enhancements		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Green shared icon added to Matrix View and Switch Console to CPU • Virtual CPUs added to Favorites list
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Context menu added to Switch Console to CPU
Fixed bugs		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Fixed selection problem in sorted and filtered tables • Fixed incomplete reloads in some views