

Matrix- Event Manager

EVENT MANAGER UTILITY FOR ULTRAMATRIX-REMOTE AND ULTRAMATRIX KVM SWITCHES



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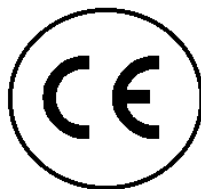
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CANADA
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This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

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Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

**EUROPEAN UNION DECLARATION OF CONFORMITY
ACCORDING TO COUNCIL DIRECTIVE 89/336EEC**



This equipment is in conformity with the requirements of the European EMC directive 89/336/EEC in respect of:
EN55022: (Class B)
EN50082-1 / EN60555-2, and
The Low Voltage Directive.

Introduction

The Rose Electronics Matrix Event Manager Utility runs on UltraMatrix and UltraMatrix Remote (Multiplatform) KVM Switches.

The Event Manager is designed to “capture events” from the Matrix switch and to output these events as a text file, or as a managed data file (Excel) for viewing, printing or database storage.

KVM System Requirements:

UltraMatrix Multiplatform KVM Switch (E-Series or X-Series) and UltraMatrix Remote Multiplatform “KVM Access-Over-IP” Switch with revision of MXP25A firmware installed.

Event Manager System Requirements:

The **MatrixLog.exe** file should be installed on a standalone PC or notebook computer, Windows 2000 or Windows XP compliant. The PC/Notebook must be equipped with a standard serial port (DB9 or RJ45 interface).

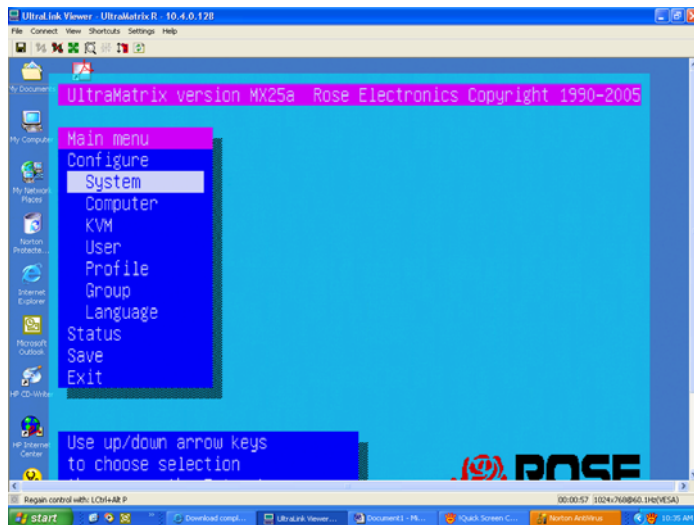
Successful running of the Event Manager requires 2 steps to be performed

1. Configure the Event Manager feature in the Matrix Switch.
2. Run the Event Manager on a PC to capture ‘events” from the KVM Matrix Switch.

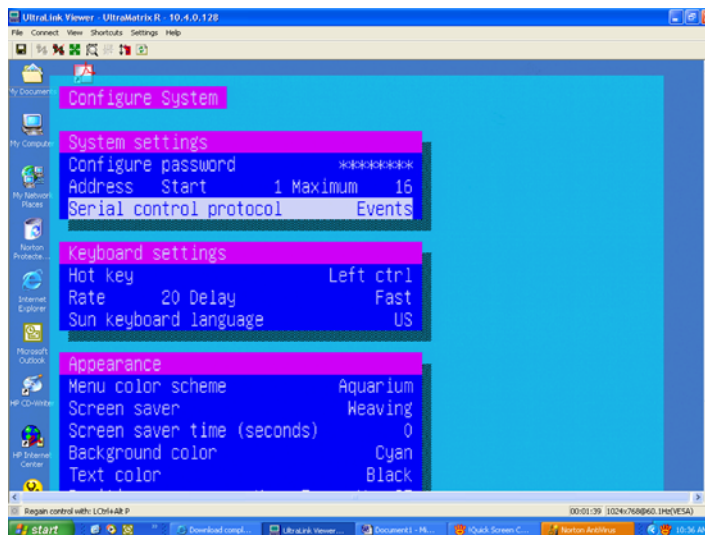
Configure the Event Manager feature in the Matrix Switch.

To display the main menu, press and release the left control key, then press the F12 key. To navigate through the menu system, use the arrow keys to select the configuration menu needed and press [Enter]. When you press [Enter] that menu will display, an input box will display for a new value, or a list of supported choices will display. Enter or select the information needed and press [Enter]. To return to the previous page or abort an input, press the [Esc] key.

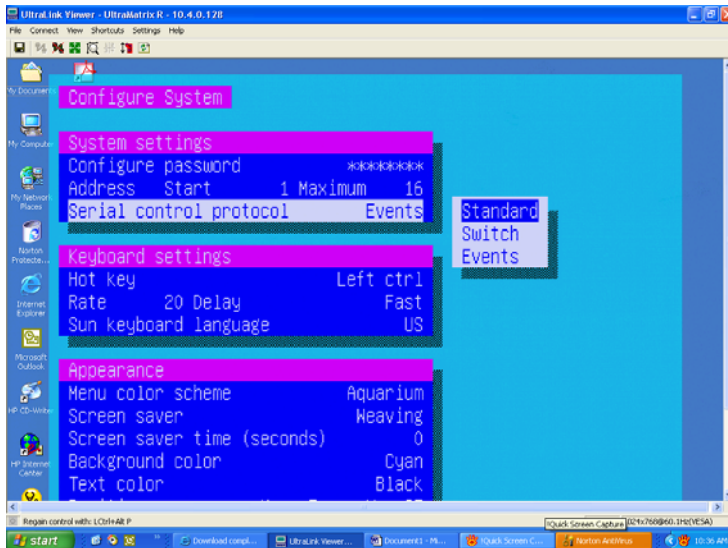
1. Connect a Keyboard, Mouse and Monitor to the User port (KVM#1) of the Matrix Switch and power on.
2. Once the diagnostic screen has cleared, press L CTRL F12 to open the Main OSD Menu.
3. Use the UP/Down arrow keys to highlight “SYSTEM” and press Enter.



4. Use the UP/Down arrow keys to highlight "SERIAL CONTROL PROTOCOL" and press Enter.

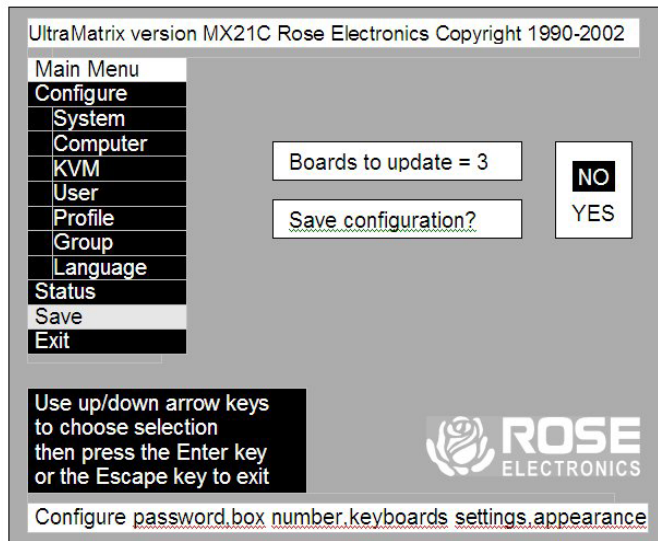


5. Use the Up/Down arrow keys to select "EVENTS" and press Enter.



- Now, go back to the Main Menu and SAVE the settings and EXIT from the OSD Menu

Save menu



When changes are made to any configuration, they must be saved in flash memory to insure that the changes will be active after a power cycle. It is recommended that all users be logged off from all systems prior to saving any configuration changes. To save the settings, select save and press [Enter]. The UltraMatrix will check and display how

many CPU cards in the system to update. This is the total number of CPU cards (RS232 ports) in the system not counting the one to which the KVM station is connected. (Total boards – 1)

A YES/NO selection box will display. Choose “YES” to save the changes to flash memory on all powered-on UltraMatrix switches.

Choose “NO” for temporary or incorrect changes. The temporary settings will only be in effect as long as power is applied to the Unit. Once power is cycled, unsaved changes, other than the starting computer number, are lost and the previously saved configuration settings will be effective.

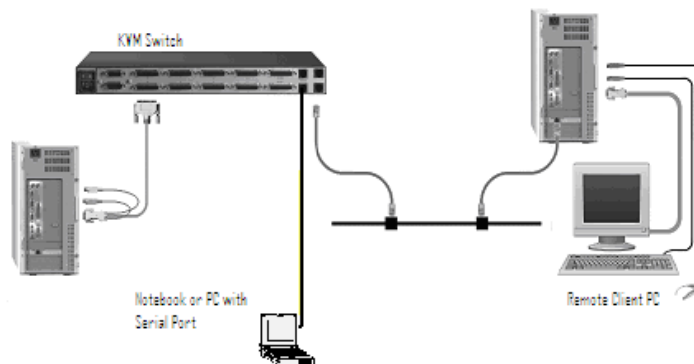
Run the Event Manager on a PC to capture ‘events’ from the KVM Matrix Switch.

The **MatrixLog.exe** file first needs to be installed on a standalone Windows PC or notebook PC.

Once installed, connect the PC to the KVM Switch via the Serial Port cable (included with the KVM switch). *** Refer note about Microsoft NetFramework at end of this document*

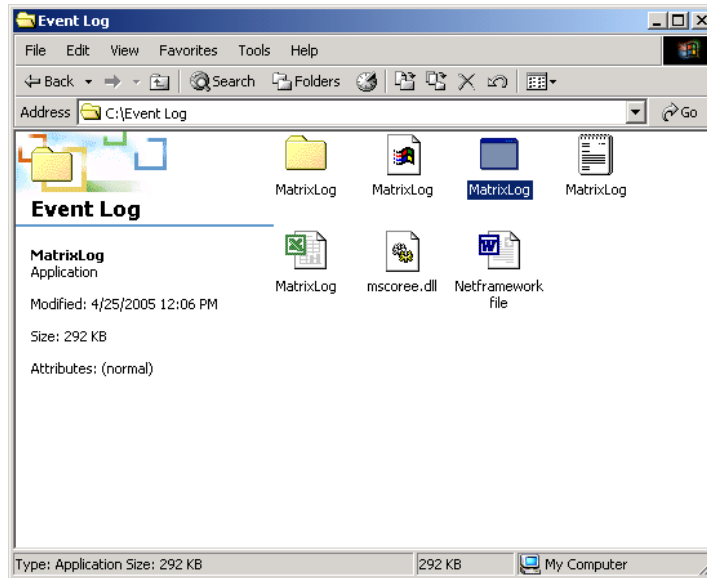
The cable has an RJ11 connector (KVM Switch end) and an ACC-ATRX DB9F serial adapter (CPU end).

1. Once the computer or Notebook is connected to the Matrix Switch, as shown in the diagram, then power on the Matrix Switch and wait for the diagnostic screen to complete.

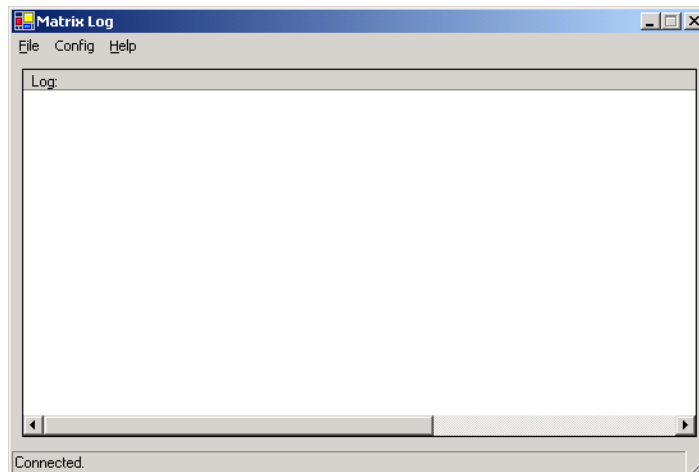


2. Power on the Notebook/PC.

3. Locate the Event Log file and open the file.

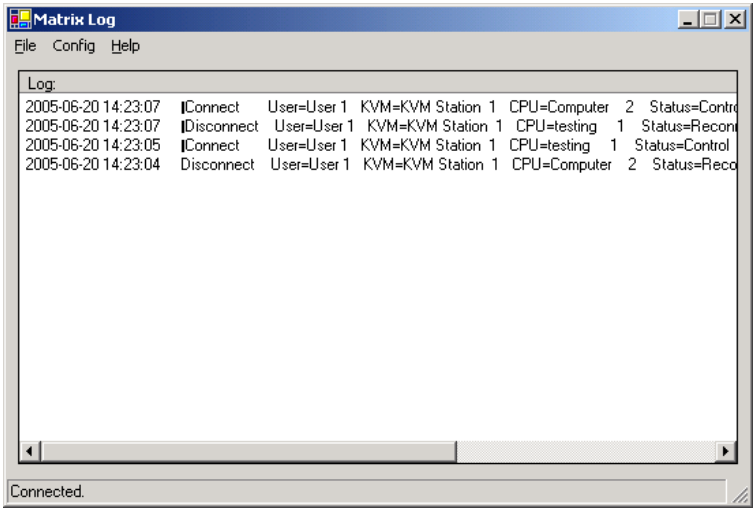


4. A **MatrixLog** icon will open in the lower right toolbar of the monitor. Locate and click this icon. The following screen will open.



5. The **Matrix Log** is now ready to start capture of "Events" from the Matrix Switch. Any keystrokes entered on a user keyboard connected to the Matrix Switch will be captured and displayed

in the Event Log window. The **MatrixLog** has an unlimited buffer storage (depends on Hard Disc capacity). Therefore, if the **MatrixLog** is permanently open on the host PC, the user should purge the log record after archiving to the hard drive, either via Notepad or Excel capture. Use *File>> Clear Log*.



- The "Events" setting outputs text messages for Connect, Disconnect, Login, and Configuration. The text message consists of an Action, User Number, KVM Station, and optionally computer name and status. The possible actions reported from the Matrix Switch are;

- Connect,
- Disconnect,
- Unit Power-up,
- Login,
- Bad login,
- Logout,
- Config open
- Config close

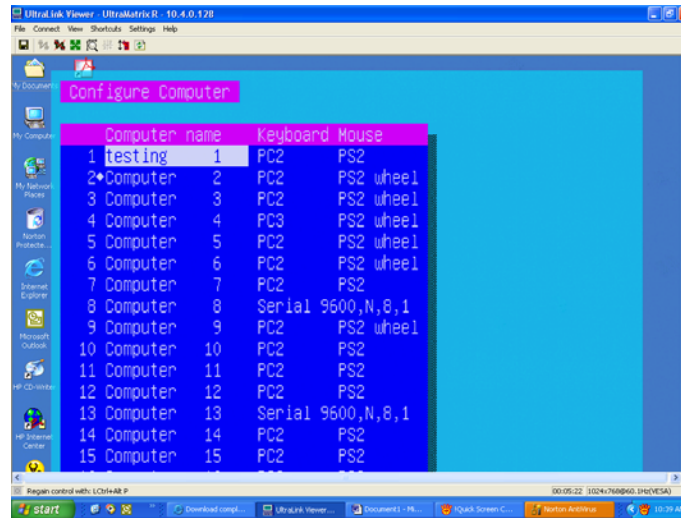
Additionally, Date and Time is provided by the capture PC.

This is an example of the event output.

Unit Powerup	User=User 2	KVM=KVM Station 1		
Login	User=User 2	KVM=KVM Station 1		
Login	User=User 2	KVM=KVM Station 1		

Config Open	User=User 2	KVM=KVM Station 1		
Config Close	User=User 2	KVM=KVM Station 1		
Logout	User=User 2	KVM=KVM Station 1		
Bad login	User=User 2	KVM=KVM Station 1		
Bad login	User=User 2	KVM=KVM Station 1		
Bad login	User=User 2	KVM=KVM Station 1		
Bad login	User=User 2	KVM=KVM Station 1		
Login	User=User33	KVM=KVM Station 1		
Connect	User=User33	KVM=KVM Station 1	CPU=Glasgow	Status=Share
Disconnect	User=User33	KVM=KVM Station 1	CPU=Glasgow	Status=Reconnect
Connect	User=User33	KVM=KVM Station 1	CPU=Copenhagen	Status=Share
Disconnect	User=User33	KVM=KVM Station 1	CPU=Copenhagen	Status=User request
Logout	User=User33	KVM=KVM Station 1		

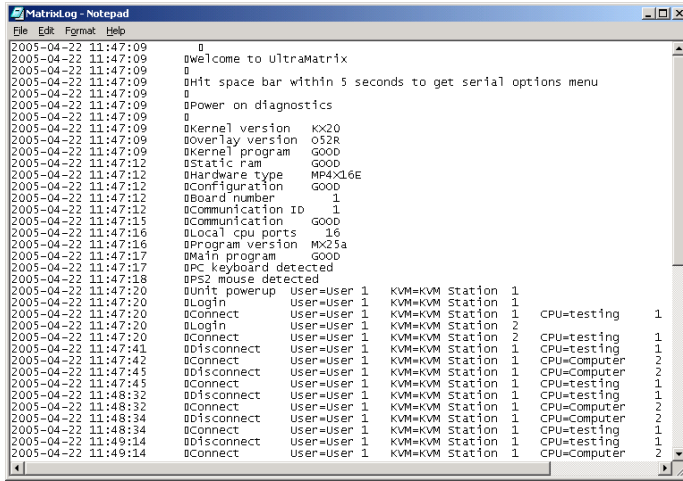
- The **User Names** and **CPU Names** can be changed from the OSD settings on the Matrix Switch. Use [L CTRL F12] to open the OSD Menu on the Matrix Switch. Go to **“Configure Computer”** to change the computer name, and go to **“Configure User”** to change the user names.



Configure Computer Menu

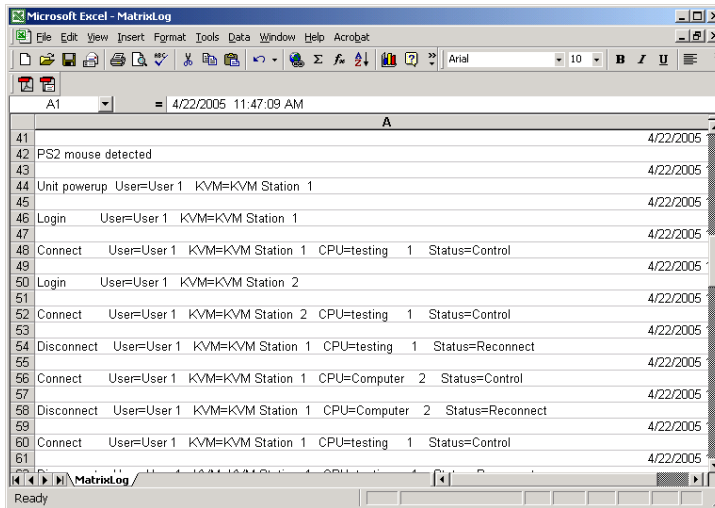
- The event data from the Matrix Switch is combined with a Date/Time stamp provided by the capture PC. Please ensure the Date/Time settings are correct on your PC. The **MatrixLog** can export information in either Notepad or Excel format. Exporting captured data to NotePad or Excel will enable the data to be stored offline.
- The FILE tab can be used to select the export destination for data captured from the Matrix Switch.

FILE >> Open Log With >> Text Editor or Excel



```
MatrxLog - Notepad
File Edit Format Help
2005-04-22 11:47:09 |
2005-04-22 11:47:09 | Welcome to UltraMatrix
2005-04-22 11:47:09 | |
2005-04-22 11:47:09 | Hit space bar within 5 seconds to get serial options menu
2005-04-22 11:47:09 | |
2005-04-22 11:47:09 | Power on diagnostics
2005-04-22 11:47:09 | |
2005-04-22 11:47:09 | Kernel version KX20
2005-04-22 11:47:09 | Overlay version 052R
2005-04-22 11:47:09 | Kernel program GOOD
2005-04-22 11:47:12 | Static ram GOOD
2005-04-22 11:47:12 | Hardware type MP4x16E
2005-04-22 11:47:12 | Configuration GOOD
2005-04-22 11:47:12 | Board number 1
2005-04-22 11:47:12 | Communication ID 1
2005-04-22 11:47:15 | Communication GOOD
2005-04-22 11:47:16 | Local cpu ports 16
2005-04-22 11:47:16 | Program version MX25a
2005-04-22 11:47:17 | Main program GOOD
2005-04-22 11:47:17 | PC keyboard detected
2005-04-22 11:47:18 | PS2 mouse detected
2005-04-22 11:47:20 | Unit powerup User=User 1 KVM=KVM Station 1
2005-04-22 11:47:20 | Login User=User 1 KVM=KVM Station 1 CPU=testing 1
2005-04-22 11:47:20 | Bconnect User=User 1 KVM=KVM Station 2 CPU=testing 1
2005-04-22 11:47:20 | Bconnect User=User 1 KVM=KVM Station 2 CPU=testing 1
2005-04-22 11:47:41 | DDisconnect User=User 1 KVM=KVM Station 1 CPU=testing 1
2005-04-22 11:47:42 | Bconnect User=User 1 KVM=KVM Station 1 CPU=Computer 2
2005-04-22 11:47:45 | DDisconnect User=User 1 KVM=KVM Station 1 CPU=Computer 2
2005-04-22 11:47:45 | Bconnect User=User 1 KVM=KVM Station 1 CPU=testing 1
2005-04-22 11:48:32 | DDisconnect User=User 1 KVM=KVM Station 1 CPU=testing 1
2005-04-22 11:48:32 | Bconnect User=User 1 KVM=KVM Station 1 CPU=Computer 2
2005-04-22 11:48:34 | DDisconnect User=User 1 KVM=KVM Station 1 CPU=Computer 2
2005-04-22 11:48:34 | Bconnect User=User 1 KVM=KVM Station 1 CPU=testing 1
2005-04-22 11:49:14 | DDisconnect User=User 1 KVM=KVM Station 1 CPU=testing 1
2005-04-22 11:49:14 | Bconnect User=User 1 KVM=KVM Station 1 CPU=Computer 2
```

Notepad File Capture Format



A1		= 4/22/2005 11:47:09 AM	
A			
41			4/22/2005
42	PS2 mouse detected		4/22/2005
43			4/22/2005
44	Unit powerup User=User 1 KVM=KVM Station 1		4/22/2005
45			4/22/2005
46	Login User=User 1 KVM=KVM Station 1		4/22/2005
47			4/22/2005
48	Connect User=User 1 KVM=KVM Station 1 CPU=testing 1 Status=Control		4/22/2005
49			4/22/2005
50	Login User=User 1 KVM=KVM Station 2		4/22/2005
51			4/22/2005
52	Connect User=User 1 KVM=KVM Station 2 CPU=testing 1 Status=Control		4/22/2005
53			4/22/2005
54	Disconnect User=User 1 KVM=KVM Station 1 CPU=testing 1 Status=Reconnect		4/22/2005
55			4/22/2005
56	Connect User=User 1 KVM=KVM Station 1 CPU=Computer 2 Status=Control		4/22/2005
57			4/22/2005
58	Disconnect User=User 1 KVM=KVM Station 1 CPU=Computer 2 Status=Reconnect		4/22/2005
59			4/22/2005
60	Connect User=User 1 KVM=KVM Station 1 CPU=testing 1 Status=Control		4/22/2005
61			4/22/2005

Excel File Capture Format

Installing NetFramework.

The **MatrixLog.exe** file requires the following files to be installed on the notebook or PC.

1) check the File (mscorlib.dll) to see whether it is installed on your computer. If not please copy it to your computer at Windows\system32.

2) the MatrixLog.exe also requires Microsoft Net.framework. You can obtain the file at this link.

<http://www.microsoft.com/downloads/details.aspx?FamilyId=262D25E3-F589-4842-8157-034D1E7CF3A3&displaylang=en>

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Server Management



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