

MAXPRO-Net
CONFIGURATION SOFTWARE

USER'S GUIDE

ISSUE	DATE	REVISIONS
A	March 2005	Initial Release (PCN 1980)
B	March 2006	Updated Setmax Installation Section

SOFTWARE LICENSE AGREEMENT

Honeywell International Inc.

165 Eileen Way, Syosset, NY 11791

You should carefully read the following terms and conditions. If you do not consent to be bound by this License Agreement, you must promptly return the unopened package to the person from whom you purchased it within fifteen (15) days from date of purchase and your money will be refunded to you by that person. If the person from whom you purchased this Software fails to refund your money, contact HONEYWELL immediately at the address shown above.

Important: This Software is security related. Access should be limited to authorized individuals.

1. **GRANT OF LICENSE.** Subject to all terms and conditions hereof of Honeywell International Inc. acting through its Security group ("HONEYWELL") does hereby grant to the purchaser (the "Licensee") upon payment in full of the published license fee, or other license fee agreed to in writing (the "License Fee") a nontransferable, non exclusive license to use the enclosed software ("Licensed Programs") provided herewith in Licensee's own business on a single computer for a term commencing on the date of payment in full of the License Fee and continuing in perpetuity unless terminated in accordance with the terms hereof.

2. **PROPRIETARY RIGHTS.** Licensee hereby acknowledges that the Licensed Programs including the algorithms contained therein are proprietary to HONEYWELL. Licensee shall not sell, transfer, disclose, display or otherwise make available any Licensed Programs or copies or portions thereof to any other entity. Licensee agrees to secure and protect the Licensed Programs so as to maintain the proprietary rights of HONEYWELL therein, including appropriate instructions to and agreements with its employees.

3. **DOCUMENTATION.** The documentation supplied with the Licensed Programs is the copyright property of HONEYWELL. Licensee shall not under any circumstances divulge or permit to be divulged such documentation to any other entity.

4. **COPIES.** Licensee shall not copy in whole or in part the Licensed Programs or documentation provided however that Licensee shall be permitted to make one (1) copy of the Licensed Programs solely for backup purposes provided that all proprietary notices are reproduced thereon. Any such copy shall remain part of the Licensed Programs and shall be subject to this agreement.

5. **OBJECT CODE.** Licensee understands and acknowledges that the Licensed Programs consist of object code only and that HONEYWELL shall not supply source code versions of the Licensed Programs. Licensee shall not create or attempt to create by de-compilation or otherwise, the source code for the Licensed Programs, or any part thereof.

6. **SECURITY.** Licensee acknowledges that the Licensed Programs are security related and access to the Licensed Software should be limited to authorized individuals. Licensee assumes full responsibility for use of the Licensed Programs whether by authorized or unauthorized individuals. Licensee agrees that the License Fee has been set in reliance upon the limitation on liability contained herein and that such provisions are fair and not unconscionable.

HONEYWELL does not represent that the Licensed Programs may not be compromised or circumvented, that the Licensed Programs will prevent any personal injury or property loss by burglary, robbery, fire or otherwise, or that the Licensed Programs will in all cases provide adequate warning or protection. Licensee understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery or fire without warning, but is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.

7. **DISCLAIMER OF WARRANTIES.** HONEYWELL does not warrant that the Licensed Programs will meet your requirements, that operation of the Licensed Programs will be uninterrupted or error-free, or that all Licensed Programs' errors will be corrected. The entire risk as to the quality and performance of the Licensed Programs is with you. **THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT ARE DISCLAIMED. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY HONEYWELL, ITS EMPLOYEES, DISTRIBUTORS, DEALERS, OR AGENTS SHALL INCREASE THE SCOPE OF THE ABOVE WARRANTIES OR CREATE ANY NEW WARRANTIES. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN THAT EVENT, ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO NINETY (90) DAYS FROM THE DATE OF DELIVERY OF THE LICENSED PROGRAMS.** This warranty gives you specific legal rights. You may have other rights, which vary from state to state.

8. **LIMITATION OF REMEDIES.** Licensee's exclusive remedy shall be either the replacement of any diskette or other media not meeting the limited warranty set forth above and which is returned to HONEYWELL with a copy of Licensee's paid invoice or, if HONEYWELL is unable to deliver a replacement that is free of defects, Licensee may terminate this Agreement by returning the Licensed Programs and thereupon the License Fee shall be refunded. HONEYWELL shall have no obligation under this Agreement if the Licensed Programs are altered or improperly repaired or serviced by anyone other than HONEYWELL factory service. For warranty service, return Licensed Programs transportation prepaid, to HONEYWELL Factory Service, 165 Eileen Way, Syosset, New York 11791.

9. **LIMITATION OF LIABILITY. REGARDLESS OF WHETHER ANY REMEDY SET FORTH IN THIS AGREEMENT FAILS OF ITS ESSENTIAL PURPOSE, IN NO EVENT WILL HONEYWELL OR ITS SUPPLIERS BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES, INCLUDING ANY LOST PROFITS OR LOST DATA ARISING OUT OF THE USE OR INABILITY TO USE THE LICENSED PROGRAMS OR ANY DATA SUPPLIED THEREWITH EVEN IF HONEYWELL OR ANYONE ELSE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY. THIS PROVISION IS INCLUDED FOR THE BENEFIT OF HONEYWELL AND ITS LOCAL REPRESENTATIVES, AND IS ENFORCEABLE BY EACH OF THEM.**

SOME JURISDICTIONS DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

IN NO CASE SHALL THE LIABILITY OF THE LICENSED PROGRAMS' PROVIDERS OR OF HONEYWELL EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCT.

10. **REGISTRATION.** In order to qualify to receive notification of HONEYWELL updates to the Licensed Programs, Licensee must complete and return a Registration Form to HONEYWELL within twenty (20) days from date of purchase. Notwithstanding, HONEYWELL is under no obligation to release updates to the Licensed Programs.

11. **TERMINATION.** Upon the breach or non-compliance with any term or provision of this agreement, HONEYWELL shall have the right to terminate the license granted hereby by written notice to Licensee. Upon such termination Licensee shall immediately turn over to HONEYWELL all copies of the Licensed Programs and any documentation supplied in connection therewith. Such remedy shall be in addition to and cumulative to any other remedies HONEYWELL may have at law or in equity with respect to such breach or non-compliance.

12. **GENERAL.** This agreement is the complete and exclusive statement of the understanding of the parties hereto with respect to the transaction contemplated hereby and supersedes any and all prior proposals, understandings and agreements. This Agreement may not be modified or altered except by a written instrument signed by Licensee and an authorized representative of HONEYWELL, its rights, duties or obligations under this Agreement to any person or entity, in whole or in part. If any provision of this Agreement is invalid under any applicable statute or rule of law it is to that shall be governed by the laws of the State of New York and the sole venue for suit shall be in an appropriate state or federal court located in the State and City of New York. The failure of HONEYWELL to exercise in any respect any rights provided for herein shall not be deemed a waiver of such right or any further Agreement may be brought more than two (2) years after the date such cause of action shall have arisen. HONEYWELL shall have the right to collect from Licensee any expensed incurred including attorneys' fees in enforcing its right under this agreement.

MAXPRO-Net TECHNICAL SUPPORT REGISTRATION

License Key No:

Site name:

Company:

Contact person: Position/title:

Mailing Address:

.....

.....

Phone: Facsimile:

Technical Support Information

Honeywell provides technical support by phone to the installers and users of our various products. We are happy to assist with installation (wiring, connections and system planning), commissioning (identifying cabling or interconnection problems, macro programming, reconfigurations) as well as ongoing service, fault finding and general maintenance advice.

Every licensed product receives technical support at no charge when the software has been licensed through our technical support department. Call technical support at 972-620-6500 (1-800-796-2288 in North America) to register your software via telephone or contact tech support at MAXPRONETREGI@HONEYWELL.COM to register via email. The form can be mailed to the Honeywell's Technical Support Department located at 12880-A Valley Branch Lane, Farmers Branch, TX 75234.

Other information

If you wish to minimize the requirement of technical support, Honeywell provides technical training courses to allow our distributors and clients to further develop their own in depth knowledge and understanding about our products. Please contact our company for more information at www.honeywellvideo.com.

I agree to abide by the terms and conditions as detailed in the software license agreement.

Please Sign/date and return to Honeywell Video Systems

Signature

Date

TABLE OF CONTENTS

SECTION 1: GENERAL INFORMATION.....	1
1.1 INTRODUCTION	1
1.2 MAXPRO-NET OVERVIEW.....	1
1.3 SYSTEM STRUCTURE.....	2
1.4 KEYBOARDS	2
1.5 MIMIC PANELS (DISCONTINUED).....	3
1.6 VIDEO SWITCHING SUBRACKS.....	3
1.7 CASCADING	4
1.8 COMBINING	4
1.9 INPUT/OUTPUT SUBRACKS.....	5
1.10 MAXPRO-NET SERVER.....	5
1.11 APPLICATION MODULES.....	5
1.12 EQUIPMENT IDENTIFICATION	5
1.13 FOLLOWING ARE THE LIST OF VIDEOBLOX COMPONENTS	7
1.14 CONVENTIONS USED IN THIS MANUAL	7
1.14.1 Points to take note of:.....	7
1.14.2 Manufacturer's Note.....	8
SECTION 2: STARTUP	1
2.1 MINIMAL REQUIREMENTS FOR RELIABLE PERFORMANCE	1
2.1.1 Hardware Requirements.....	1
2.1.2 Software Requirements	1
2.2 INSTALLING SETMAX CONFIGURATOR	2
2.3 RUNNING THE SETMAX CONFIGURATOR	13
2.4 MAXPRO-NET AND MGP-NET LICENSING	14
2.5 UPGRADING MAX 1000 TO MAXPRO-NET	17
2.6 MAXPRO-NET NEW SYSTEM WIZARD	19
2.6.1 Standard Tab	20
2.6.2 VCR Management Tab	22
2.7 ADDING USERS	24
2.8 EDITING THE SETMAX CONFIGURATION	25
2.9 SAVING DATA.....	26
2.10 AUTOSAVE	27
2.11 CLOSING SETMAX.....	27

TABLE OF CONTENTS, CONTINUED

2.12	SETMAX ADD WIZARD.....	28
2.12.1	Default Tab.....	29
2.12.2	Advanced Tab.....	29
2.13	LIVE CONFIGURATION UPDATE.....	31
2.14	FINDING CONFIGURATION DATA.....	32
2.15	SERVER COLD BOOT AND WARM BOOT.....	32
2.16	SETMAX PROPERTIES.....	33
SECTION 3: VIDEO INPUTS.....		1
3.1	DEFINING VIDEO INPUTS.....	1
SECTION 4: VIDEO OUTPUTS.....		1
4.1	DEFINING VIDEO OUTPUTS.....	1
SECTION 5: SEQUENCE TABLES.....		1
5.1	INTRODUCTION.....	1
5.2	DEFINING SEQUENCES.....	1
SECTION 6: CCTV KEYBOARDS.....		1
6.1	DEFINING CCTV KEYBOARDS.....	1
SECTION 7: INTERCEPT KEYBOARD KEYS.....		1
7.1	EDITING KEYBOARD KEYS.....	1
SECTION 8: KEYBOARD OPERATORS.....		1
8.1	DEFINING KEYBOARD OPERATOR PROPERTIES.....	1
SECTION 9: EXTERNAL ALARM INPUTS.....		1
9.1	DEFINING EXTERNAL ALARM INPUTS.....	1
SECTION 10: AUXILIARY CONTROL OUTPUTS.....		1
10.1	DEFINING AUXILIARY CONTROL OUTPUTS.....	1
SECTION 11: SYSTEM MACRO LIBRARY.....		1
11.1	DEFINING SYSTEM MACRO LIBRARY.....	1
SECTION 12: SPECIAL PARAMETERS.....		1
12.1	DEFINING SPECIAL PARAMETERS.....	1

TABLE OF CONTENTS, CONTINUED

SECTION 13: SERIAL PORTS	1
13.1 DEFINING SERIAL PORTS	1
SECTION 14: ERROR LOG	1
14.1 DEFINING ERROR LOG	1
SECTION 15: TITLE & REGISTRATION	1
15.1 TITLE & REGISTRATION	1
SECTION 16: LOGICAL CAMERA SELECTION	1
16.1 DEFINING LOGICAL CAMERA GROUPS	1
16.2 EXAMPLE OF LOGICAL CAMERA SELECTION	6
16.3 HEGS5300 KEYBOARD OVERLAY	7
SECTION 17: VCR MANAGEMENT	1
17.1 VCR MANAGEMENT	1
SECTION 18: LOGON PASSWORD	1
18.1 LOGON PASSWORD	1
SECTION 19: ETHERNET PORTS	1
19.1 DEFINING ETHERNET PORTS	1
SECTION 20: EXPORTING THE DATABASE FILES	1
20.1 PROCEDURE TO EXPORT THE DATABASE FILES	1
SECTION 21: EXPORTING AND IMPORTING FILES IN EXCEL	1
21.1 EXPORING FILE TO MICROSOFT EXCEL SPREADSHEET	1
21.2 IMPORTING FILE FROM MICROSOFT EXCEL SPREADSHEET	5

Notes:

SECTION 1: GENERAL INFORMATION

1.1 INTRODUCTION

This chapter contains general information that will be useful to know before using MAXPRO-Net to configure your crosspoint matrix video switching system.

1.2 MAXPRO-Net OVERVIEW

The MAXPRO-Net crosspoint matrix video switching system is designed as an expandable full matrix video switching system. It can be as small as eight (8) video inputs and a single video output channel or a full matrix configuration of over 4000 cameras and 256 video output channels is possible. Larger systems can be constructed using split matrix and networking techniques.

All video output channels can support overlaid text insertion to provide: camera identification, channel labelling, current time/date, and other system and operator status information.

Ninety-nine (99) individually identified keyboards can be implemented on the one MAXPRO-Net system. Each keyboard can operate the system concurrently. If necessary, more keyboards can be implemented using networking.

Ninety-nine (99) different operators can be defined on any one MAXPRO-Net system. Each system operator has programmable access rights and priority codes.

Full camera control (pan, tilt, zoom, and lens functions) can be implemented for direct control from each keyboard. Where VideoCassette Recorders (VCRs) or Digital Video Recorders (DVRs) are utilised in a video system, the standard control functions (stop, play, record, rewind, fast forward, pause, slow mode, and optional eject) are available from the keyboards. Remote control interface of other video processing equipment can also be implemented (e.g. motion detectors, freeze frame units, video multiplexers, quads, and so on).

Remote control interface of other video processing equipment can also be implemented (e.g. motion detectors, freeze frame units, video multiplexers, quads, and so on). External alarm inputs and auxiliary control output circuits could also be configured into the MAXPRO-Net system.

When the MAXPRO-Net system detects an alarm, an automatic system response can be programmed to take place. These automatic responses are called **MACRO SEQUENCES**, which allow total flexibility of system operation for any given alarm input. More importantly, these **MACRO SEQUENCES** automate the responses of different system alarms, minimizing the margin of human error during alarm conditions.

Control output circuits are used to extend the automation and control of the crosspoint matrix video switcher. For example, they could be used to control door latches and boom gates, which are remote from the control room.

1.2 MAXPRO-NET OVERVIEW, CONTINUED

Control output circuits can be directly controlled in several different ways:

- by a given alarm input status,
- manual operation from a keyboard,
- or from virtually any system action that might occur.

The MAXPRO-Net crosspoint maxtrix video switching system can be structured and configured to meet virtually any video system design specification.

1.3 SYSTEM STRUCTURE

As mentioned previously, MAXPRO-Net is structured as a matrix video switching system, integrated with external alarm inputs and auxiliary control outputs.

1.4 KEYBOARDS

A single MAXPRO-Net system can accommodate up to ninety-nine (99) keyboards. They can all operate the system concurrently and yet still be totally independent of each other.

Keyboards can be thought of as devices that provide the operator with a well-organized environment to work in. All possible functions available for use in a video system can be accessed from the keyboards, through the keys. Cameras, monitors, VCRs and pan/tilts (PTZs) are just some of the function keys on a keyboard.

An operator to whom access is permitted can, with the correct key press, control the allowable system devices. Keys can be reprogrammed to incorporate other functions as well as their own designated functions, or the key could be reprogrammed to perform an entirely different function.

The reprogramming of the keyboard keys is accomplished with the use of the 'Intercept Keyboard Keys' table in SETMAX.

1.5 MIMIC PANELS (Discontinued)

Mimic panels were available as part of a MAX1000 system. These hardware panels are no longer available with the MAXPRO-Net hardware. However, the MAXPRO-Net configurator supports configuring these panels in systems where the software is being upgraded.

1.6 VIDEO SWITCHING SUBRACKS

All of the available video sources (cameras etc.) are distributed across one or more video switching subracks to construct the required video switching matrix. Depending on the system's requirements (the number of video inputs and outputs), the video switching subracks come in several fixed sizes to best suit individual applications.

At this point two new concepts will be introduced for use in a large switching matrix. They are:

- cascading, and
- combining.

1.7 CASCADING

A cascading configuration may be used where the video inputs are distributed across up to three video switching subracks. The outputs of the first subrack(s) are connected to inputs of the subsequent subrack(s). By doing so, the subsequent video switching subrack(s) can gain access to, in addition to their own video inputs, the other video inputs on the previous subrack(s).

This configuration is very useful for a simple crosspoint video matrix switching system having up to 320 video inputs. Refer to the CASCADING section of the commissioning manual for a more comprehensive description. The commissioning manual is provided on the CD shipped with your system.

1.8 COMBINING

Within combining configurations two *different* types of video switching subracks are used:

- pre-selection subracks, and
- combiner subracks.

The pre-selection subracks referred to in combining are standard video switching subracks as per those used in standalone or cascading configurations.

The combiner subracks are available in two forms: HD Series subracks configured as combiners, or, specific combiner subracks. The choice of combiner is dependant upon system size: HD Series subracks configured as combiners support systems with up to 1024 video inputs, whereas specific combiner subracks support systems with up to 4096 video inputs.

Video inputs are connected directly into the pre-selection subracks. The video inputs are pre-selected by these subracks before going to the combiner subracks. The outputs from the combiner subracks would then go to video output devices (monitors, VCR's, and so on).

The combining configuration is practical for video systems consisting of hundreds to thousands of video inputs.

For more details, refer to the COMBINING section of the Commissioning Manual for a more comprehensive description. The Commissioning Manual is located on the CD supplied with your system.

1.9 INPUT/OUTPUT SUBRACKS

In order for the MAXPRO-Net system to have control over other associated equipment (camera PTZs, VCRs, lights, boom gates, etc.), and to be able to automatically respond to external alarm conditions, the MAXPRO-Net utilizes I/O subracks.

These I/O subracks can accommodate:

- alarm input modules,
- control output circuit modules,
- specialized two-wire communications modules (for camera PTZ control), and
- peripheral control interface modules (for VCR control).

1.10 MAXPRO-NET SERVER

The MAXPRO-Net Server is programmed with the system's desired configuration and performance specifications. It then manages all subracks and associated modules used in the MAXPRO-Net crosspoint matrix video switcher.

The MAXPRO-Net Server simultaneously performs alarm management, remote equipment control, and video switching (including scanning).

1.11 APPLICATION MODULES

Modules are plugged into the subracks to perform the required tasks in the crosspoint matrix video switching system. Video switching modules, video text insertion modules, external alarm input modules and auxiliary control output modules are all available for use in a system. The actual number of each type of module provided with your system is dependent upon your system's design specifications.

1.12 EQUIPMENT IDENTIFICATION

For a fully comprehensive list of components please contact Honeywell. Some of the more commonly used components are listed below:

Following are the list of MAXPRO-Net components:

- MAXPRO-Net Windows® 2003 Console Server
- HMXAT200 Max 1000 System Controller. This can be a network node under MAXPRO-Net system
- HMX18 Redundant CPU Changeover Server. This can be used as an optional fault-tolerant server.
- HMX32128 Video Equipment Subrack (6RU), 16 slots for 128 inputs and 4 slots for 32 outputs

1.12 EQUIPMENT IDENTIFICATION, CONTINUED

- HMX128 Subrack Controller Module for HMX32128
- HMX832 8-Channel Video Input and Switching Module for HMX32128
- HMX832L 8-Channel Looping Video Input and Switching Module for HMX32128
- HMX208 8-Channel Video Output Module with Text for HMX32128
- HMX108 8-Channel Video Output Module, without Text for HMX32128
- HMX116 16-Channel Video Output Module, without Text for HMX32128
- HMX4248 I/O adapter module, 24 alarm inputs, 8 relay outputs. Rear mounts onto HMX32128
- HMX1600 16 slot, I/O subrack (3RU)
- HMX1676 16 input, 18 slot pre-text subrack, subrack (3RU)
- MXCC1M Video Ribbon Cable Assembly, 3 Feet (between HMX116 video output card and MX832L video input card) for cascading HMX32128 units).
- MXLCM4 Cable, 8 Input Coax Ribbon Looping, 1 Foot
- MX9018 8-Way 75-Ohm Video Termination Connector
- CP88T75 75-Ohm Video Termination Plug
- HMXPS9 Dual-rail subrack power supply (2RU)
- HRD85 32 input, single channel video switching module
- HRD89 32 input, video verification module
- HRD105B Subrack controller module
- HMX205 Enhanced video text insertion module
- HRD315 Two-wire PTZ communications controller module
- HRD316 RS-485 PTZ communications controller module
- HRD490 Infra-red Peripheral Control Interface module, VCR control (also supports RS-232 control)
- HRD494 Resistive-Ladder Peripheral Control Interface module
- HEGS5300 Enhanced keyboard
- HEGSA002 ULTRAKey control keyboard
- HRD400 External alarm input module (8 inputs)
- RD32C32R Combiner (6RU)

1.13 FOLLOWING ARE THE LIST OF VIDEOBLOX COMPONENTS

- HVBPI44 PROTOCOL INTERFACE TRANSLATOR
- HVBI2C16I IIC 16 INPUT Module
- HVBI2C16O IIC 16 OUTPUT Module
- HVBMVT Multi Channel Video Titled Card
- HVB16M64 16 Video Input Card
- AVB8O 8 Video Output Card
- HVB16TOX Titled Output Cards for VideoBloX
- HVB32LKI 32 VIDEO INPUT INTERLINK INPUT
- HVB32LKO 32 VIDEO OUTPUT INTERLINK INPUT

Refer to the VideoBloX manual for more details on VideoBloX components.

1.14 CONVENTIONS USED IN THIS MANUAL

During the course of this manual icons and examples are used to help illustrate certain points.

1.14.1 Points to take note of:

Points that you should be aware of will be highlighted to you in the form of a note/caution/warning box as shown below.



NOTE:/CAUTION:/WARNING: You should pay attention to points highlighted in paragraphs like this.

1.14.2 Manufacturer's Note

If you are experiencing any difficulties with your MAXPRO-Net system, or may have some useful information to relate back to us, kindly contact your local distributor.

Our distributors are very carefully selected. They are provided with complete technical support and training so as to ensure the high standard of service and security expected from you.

Acknowledgements:

WINDOWS® Registered trademark of the Microsoft Corporation

SMARTEXT™ Trademark of Honeywell, Inc.

FLASHBACK™ Trademark of Honeywell, Inc.

MAXPRO™ and **MAXPRO SYSTEMS LOGO** are Registered Trademarks of Honeywell, Inc.

SECTION 2: STARTUP

2.1 MINIMAL REQUIREMENTS FOR RELIABLE PERFORMANCE

2.1.1 Hardware Requirements

Component	Description
Server Module	Processor Speed: Pentium IV, 3GHz Memory: 512 MB Hard Disk Space: 1 GB Monitor: 256-color VGA
Client	Processor Speed: Pentium IV, 3GHz Memory: 512 MB Hard Disk Space: 500 MB Monitor: 256-color VGA
Local Area Network (LAN)	Ethernet or Fault Tolerant Ethernet (FTE)

2.1.2 Software Requirements

Software	Description
Server Module	Microsoft Windows 2003 with latest update. Internet Explorer 5.5 or higher
Client	Microsoft Windows XP with Service Pack 2 or Windows 2000 Professional with Service Pack 4. Internet Explorer 5.5 or higher

2.2 INSTALLING SETMAX CONFIGURATOR

The SetMax Configurator must be installed on a computer running Microsoft Windows® Server 2003 to configure the crosspoint matrix video switching system.

Perform the following steps to install SetMax for MAXPRO-Net:

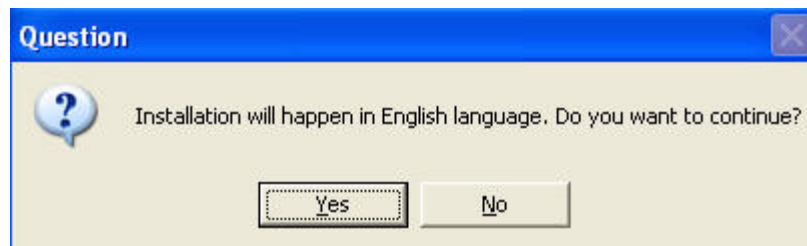


CAUTION: You must be logged onto the Windows operating system with administrative privileges.

1. Download the MAXPRO-Net software package to your computer.
2. Select and double-click the **Setup.exe** from the MAXPRO-Net Folder to start the installation. The Choose Setup Language dialog appears.



3. Select a language for the installation program.
4. Click **OK**. The Question dialog appears.

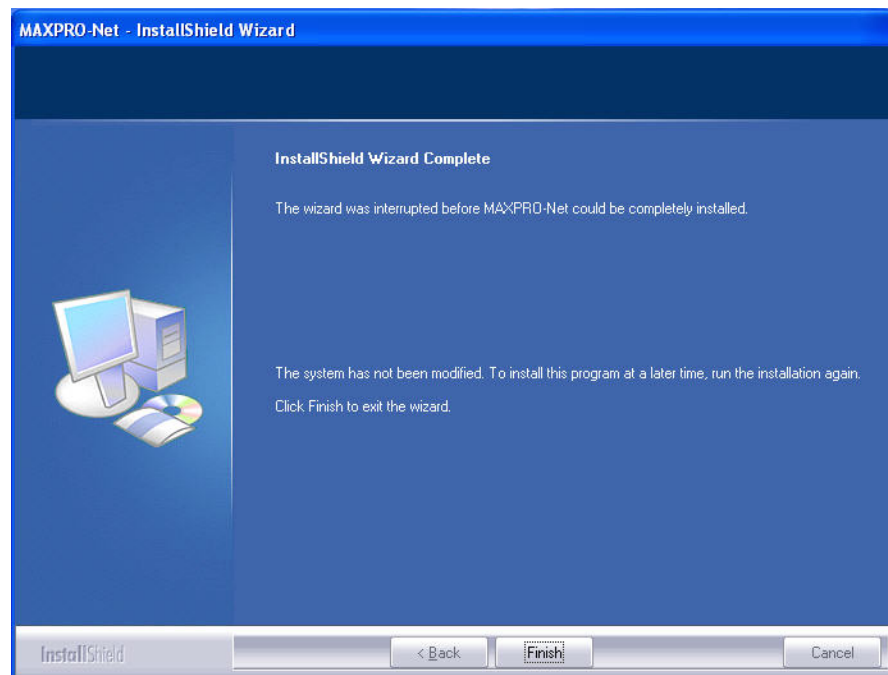


5. Click **Yes** to proceed with the installation. If you click **Yes**, skip steps 6 to 19 and proceed onto step 20 to continue with the installation. Click **No**, if you want to stop the installation and change the installation program language.
6. If you click **No** in the Question dialog, the MAXPRO-Net InstallShield Wizard dialog appears.

2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED



7. Click **OK**. The InstallShield Wizard Complete screen appears.

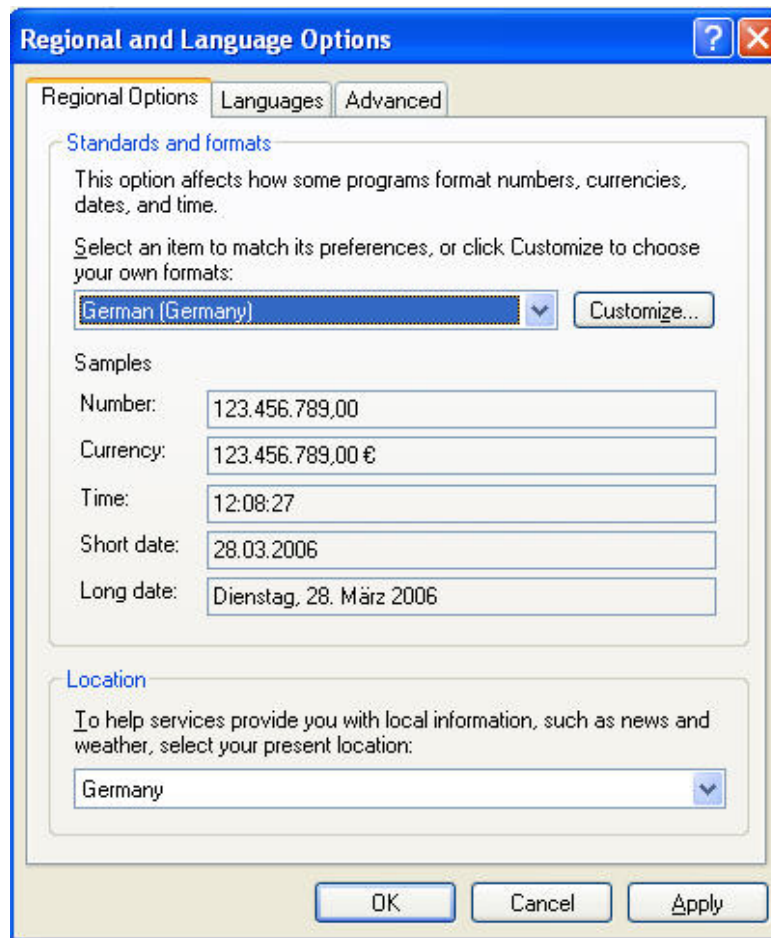


8. Click **Finish** and then change the operating system language.

Changing the operating system language

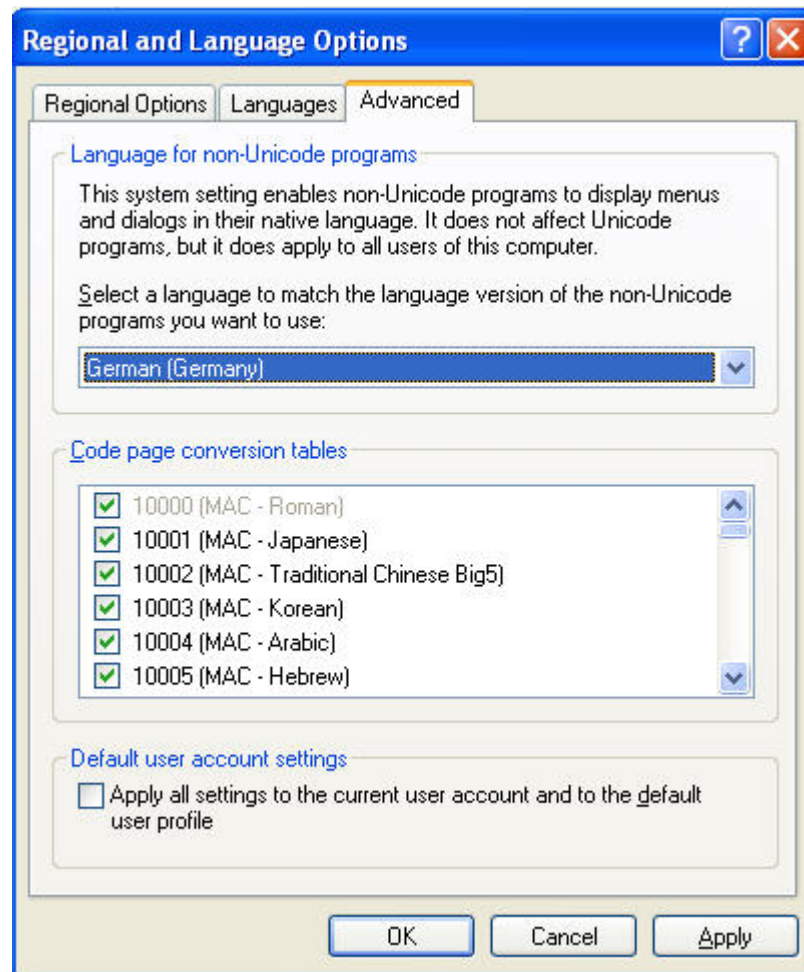
9. Choose **Start → Settings → Control Panel**.
10. Double-click **Regional and Language Options**. The Regional and Language Options dialog appears.

2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED



11. In the **Select an item to match its preferences, or click Customize to choose your own formats:** box, select a language for the operating system.
12. Under **Location**, select the location where the MAXPRO-Net is being installed.
13. Click **Apply**.
14. Click **Advanced** tab. The Advanced Settings for Regional and Language Options appears.

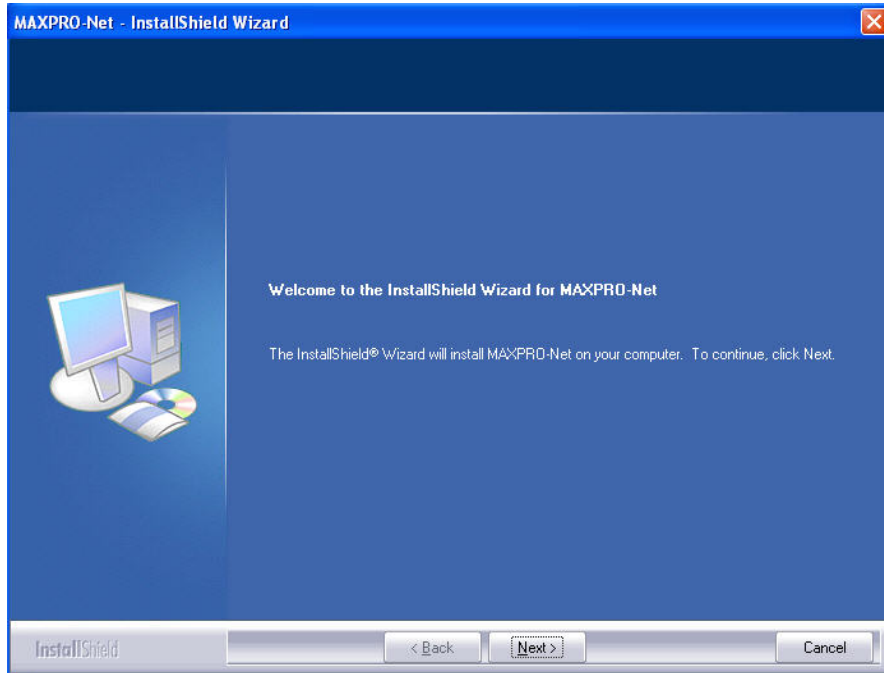
2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED



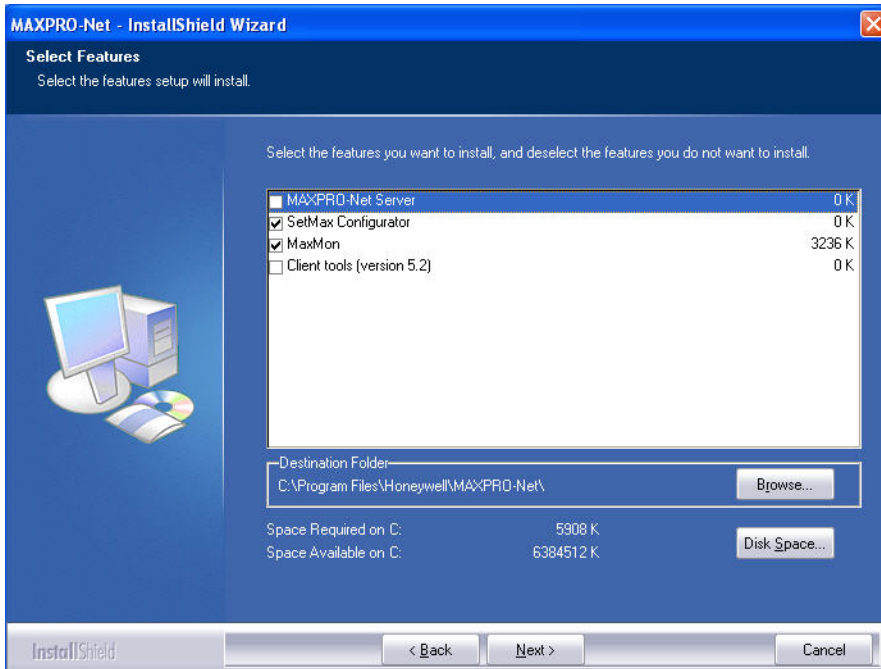
15. In the **Select a language to match the language version of the non-Unicode programs you want to use:** box, select a language for the non-Unicode programs.
16. Under **Code page conversion tables**, select all the items.
17. Click **Apply**.
18. Click **OK**.
19. Select and double-click the **Setup.exe**, in the MAXPRO-Net Folder to re-start the installation. Refer steps 2 to 4 in this section.

2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED

20. If you click **Yes** in the Question dialog, the Welcome screen appears.



21. Click **Next**. The Select Features screen appears.

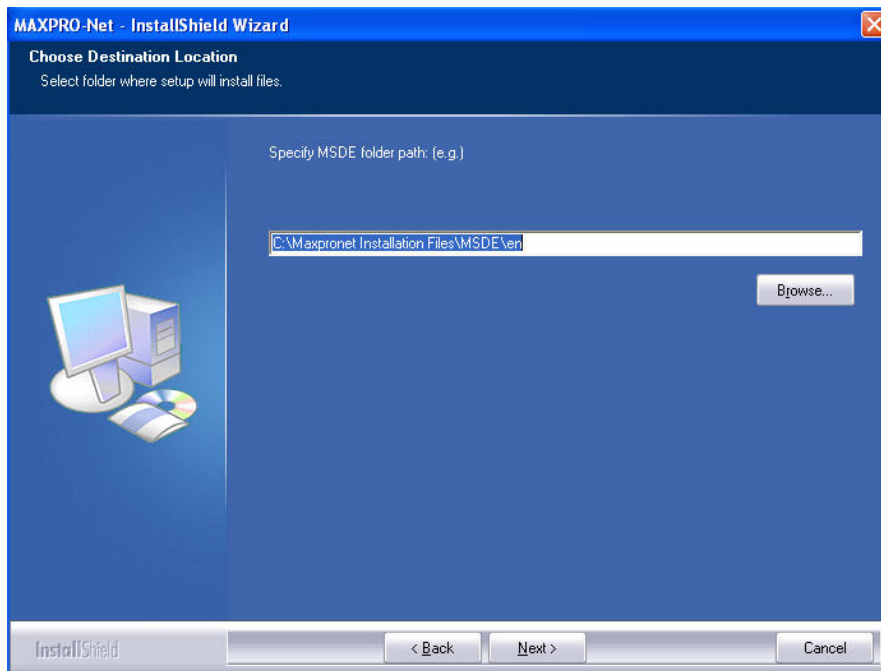


22. Select the features to install.

Note: If MAXPRO-Net Server is selected, the setup installs Microsoft SQL Server Desktop Engine on your computer.

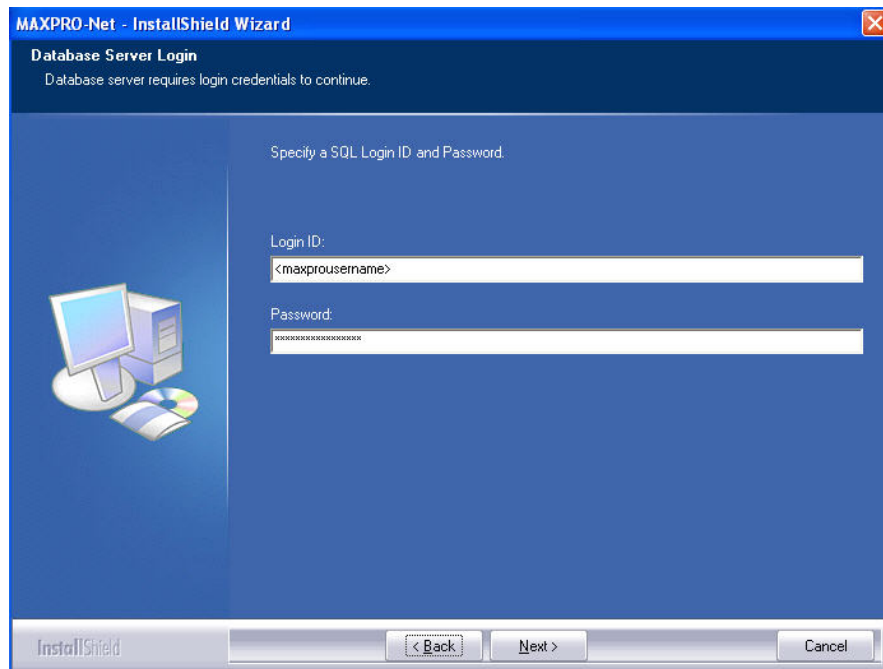
2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED

23. Click **Browse**. The Choose Folder dialog appears.
24. Select a folder where the features are to be installed.
25. Click **OK** to close the Choose Folder dialog.
26. Click **Next** on the Select Features screen. If you have selected MAXPRO-Net Server on the Select Features screen, the Choose Destination Location screen appears.

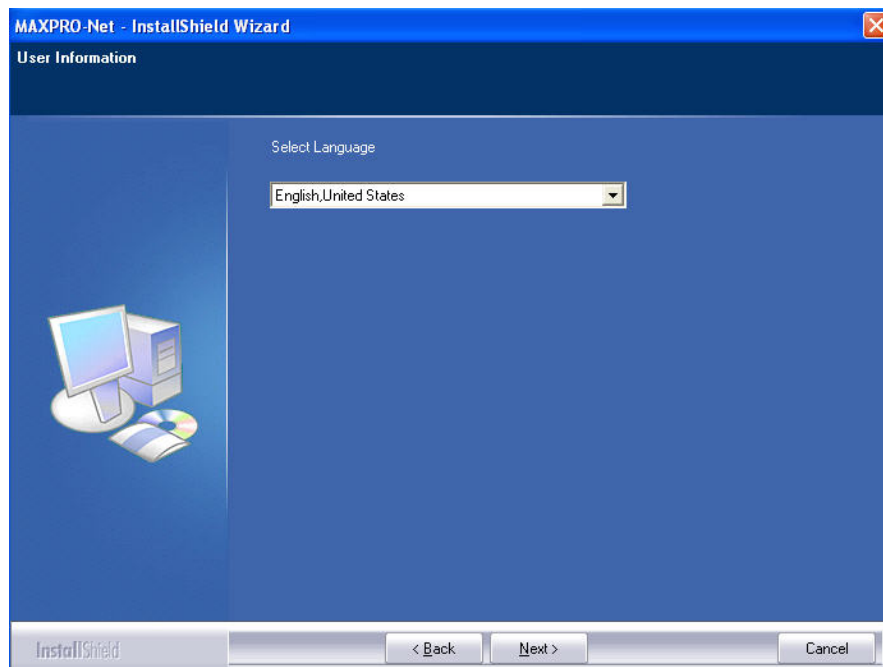


27. Click **Browse**. The Choose Folder dialog appears.
28. Select a folder where Microsoft SQL Desktop Engine is to be installed.
29. Click **OK** to close the Choose Folder dialog.
30. Click **Next** on the Choose Destination Location screen. The Database Server Login screen appears.

2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED



31. In the **Login ID** box, type the SQL User Login ID.
32. In the **Password** box, type the SQL User Password.
33. Click **Next**. The User Information screen appears.

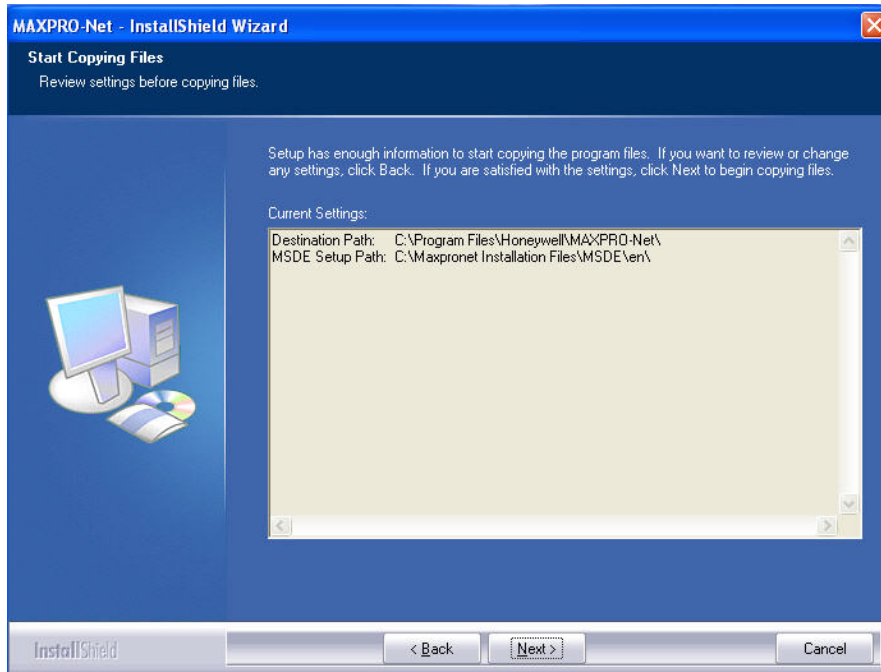


34. In the **Select Language** box, select the language to be used for MAXPRO-Net.

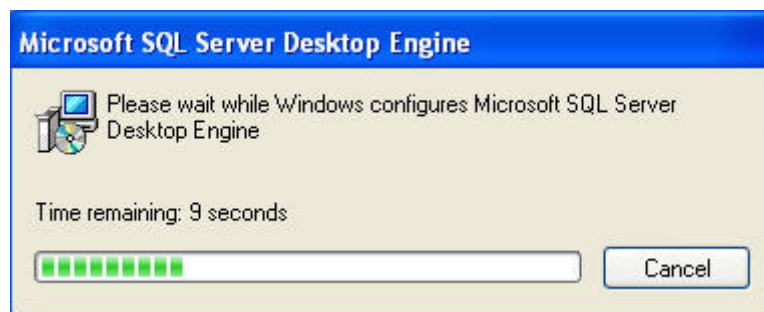
2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED

Note: Refer to MAXPRO-Net Translation Editor User Manual.pdf (Revision 1.0), having the part number 900.0675, if you want to add support for other languages in MAXPRO-Net.

35. Click **Next**. The Start Copying Files screen appears.



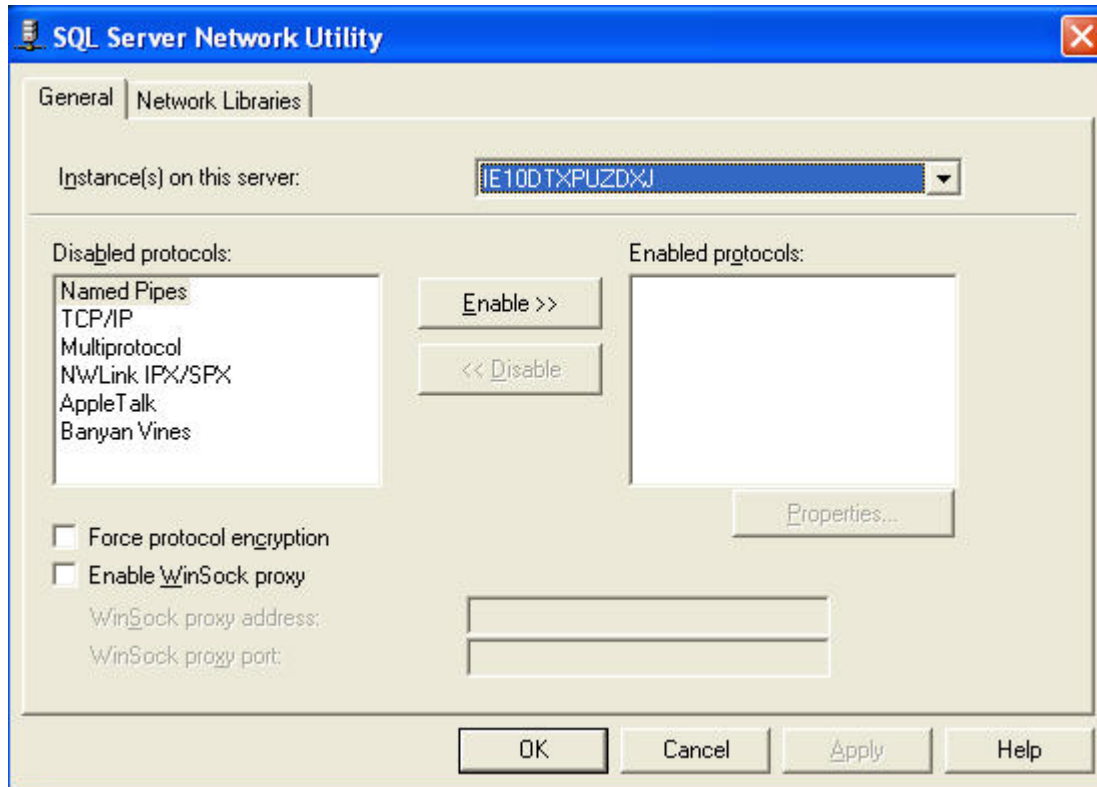
36. Click **Next**. The Microsoft SQL Server Desktop Engine installation dialog appears.



Note: The computer restarts after Microsoft SQL Server Desktop Engine is installed.

The SQL Server Network Utility screen appears after the Microsoft SQL Server Desktop Engine installation is completed.

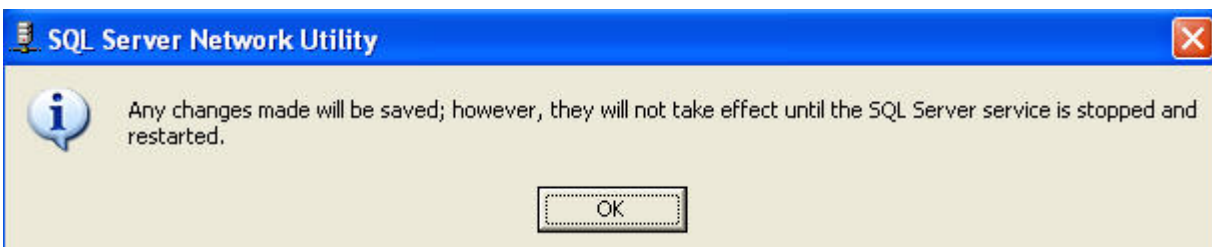
2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED



37. In the **Disabled protocols** box:

- a. Select **Named Pipes** and click **Enable**.
- b. Select **TCP/IP** and click **Enable**.

38. Click **OK** to close the SQL Server Network Utility screen. The SQL Server Network Utility dialog appears.



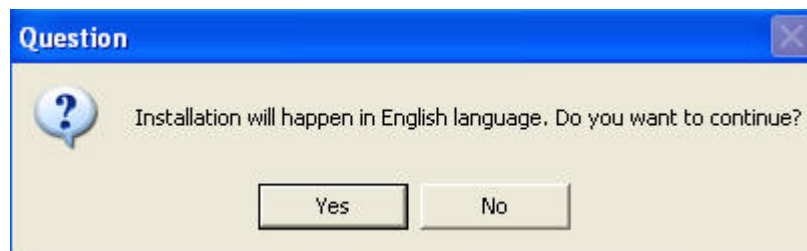
39. Click **OK**. The computer restarts and the Choose Setup Language dialog appears.

2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED

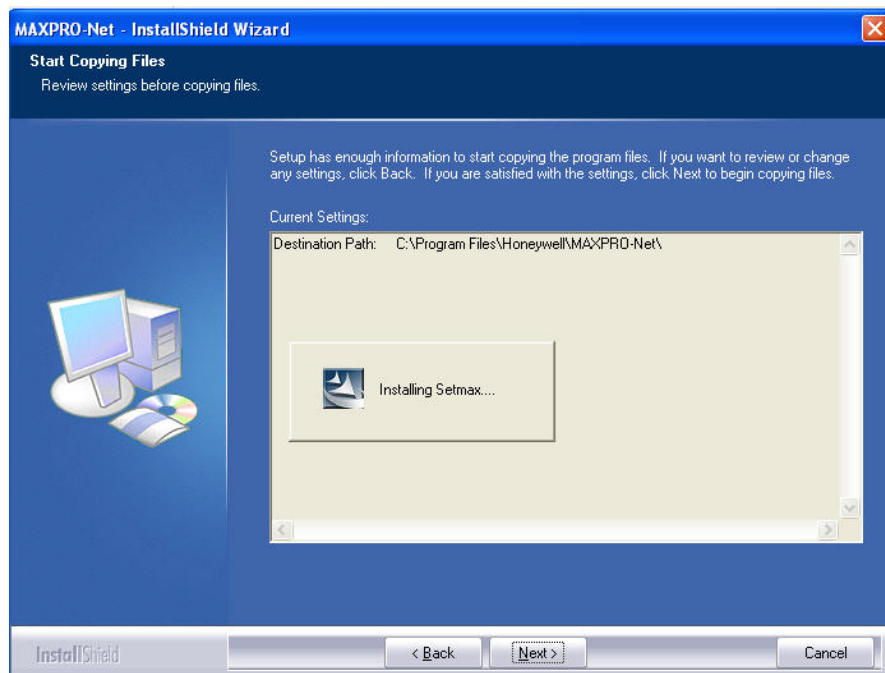


40. Select a language for the installation program.

41. Click **OK**. The Question dialog appears.

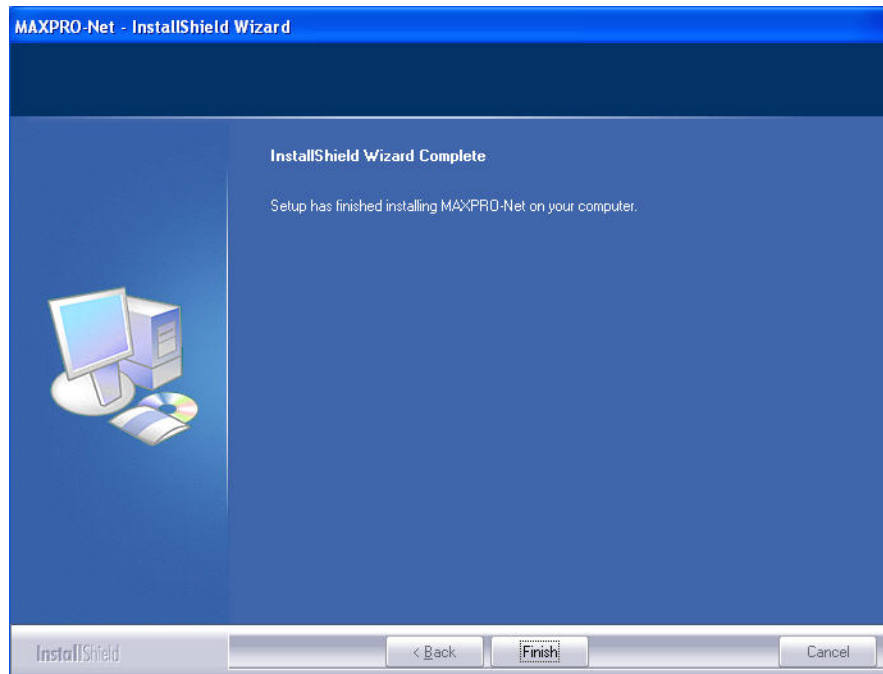


42. Click **Yes**. The Start Copying Files screen appears.



The Install Shield Wizard Complete screen appears after the installation is completed.

2.2 INSTALLING SETMAX CONFIGURATOR, CONTINUED



43. Click **Finish** to complete the installation.

2.3 RUNNING THE SETMAX CONFIGURATOR

1. Choose **Start -> Programs -> Honeywell Video Systems -> SetMax for Windows -> Setmax for Maxnet**. The Setmax Configurator dialog appears:

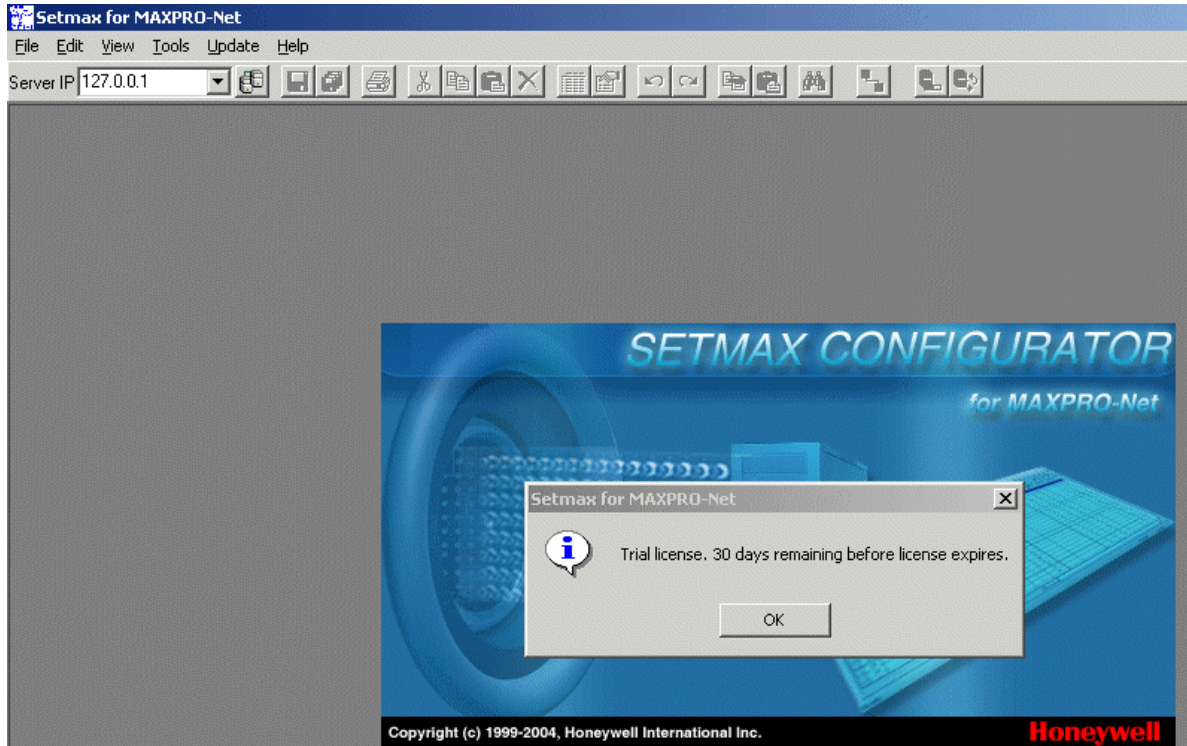


2. In the **IP Address box**, select or type the Server IP Address.
3. In the **User Name box**, type the user name.
4. In the **Password box**, type the password.
5. In the **Language box**, select the language you want to use.
6. Click **OK**.

2.4 MAXPRO-NET AND MGP-NET LICENSING

First time when you log on to SetMax, the 30 days of trial version message appears. When you obtain the registered product license, you can use the license key and change the status using the **License** option from the **Help** menu.

1. When you logon to SetMax, the following main window appears:



2. Read the license information on the dialog and click OK.
3. When you want to update the license status, select **Help** -> **License** menu from the main window. The following dialog appears:

2.4 MAXPRO-NET AND MGP-NET LICENSING, CONTINUED

Save Site Key

License Status

License Type : Trial license

Number of Days Remaining : 30

Site Code and Site Key

Site Code : 5066 3C77 69EF A0FA 11

Site Key :

Save Site Key

Close

4. Copy the site code from the text box and send it to the Customer Care at Honeywell. Mention the required number of licenses for MGP-NET when sending the site code. Use the following license form to fill in this information:



*Denotes Required Field

MAXPRO-Net REGISTRATION

License Key No:

*Site name: *Dealer:

*Integrator:

*Company:

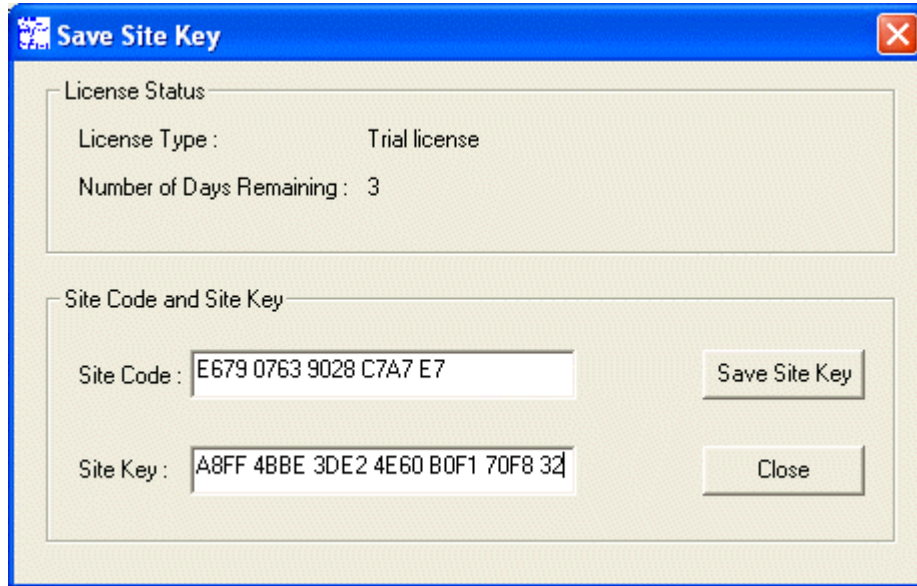
*Contact person: *Position/title:

*Mailing Address:

*Phone: *Facsimile:

5. After you receive the Site Key from the vendor, specify the same in the Site Key field.

2.4 MAXPRO-NET AND MGP-NET LICENSING, CONTINUED

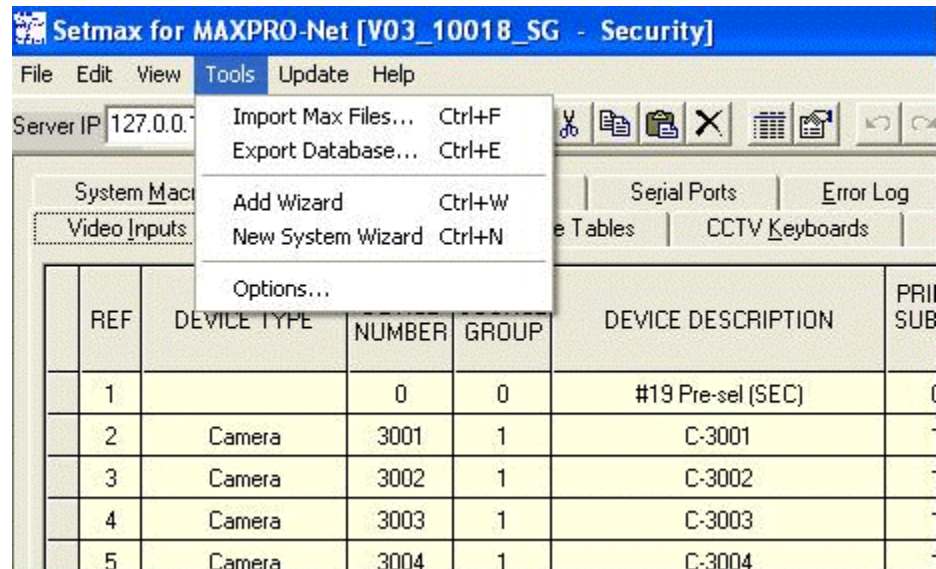


6. Click the Save Site Key button to update the license.
7. Click Close.
8. Now the license gets updated and the licensed status is displayed accordingly.
9. Click Connect to retrieve the configurations.

2.5 UPGRADING MAX 1000 TO MAXPRO-NET

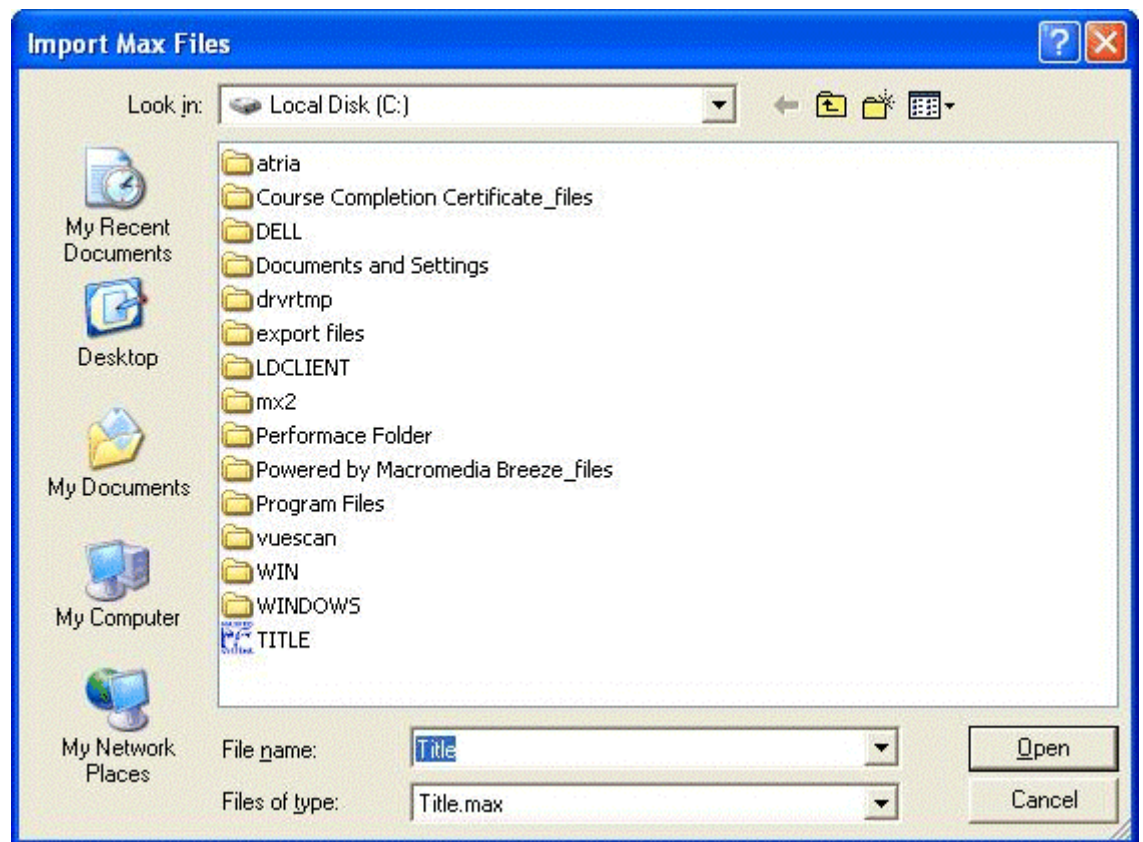
If you are upgrading your system from max files Version 4.16 or later to MAXPRO-Net, you can import the .max files already configured.

1. Select **Tools** -> **Import Max Files** from the menu bar as shown in the following illustration.



2. Locate and select the existing title.max file. The following window displays an example location.

2.5 UPGRADING MAX 1000 TO MAXPRO-NET, CONTINUED

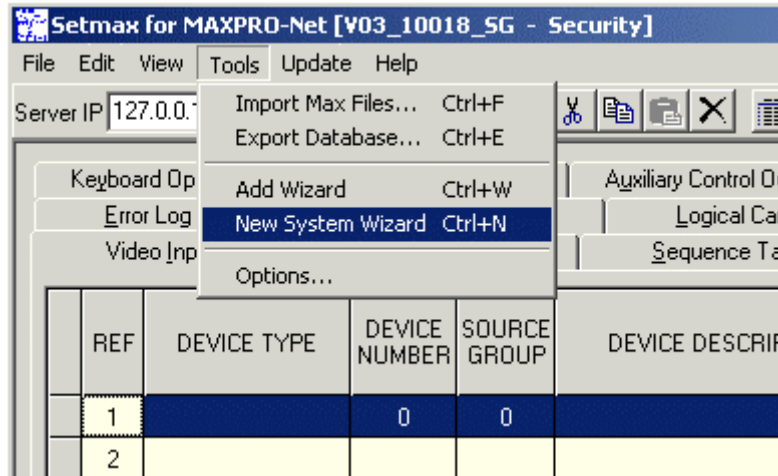


3. Click **Open**.
4. The files are imported and the system is configured as it was in your previous version of SetMax. After importing, you need to cold boot the server to reflect the configuration of imported files.

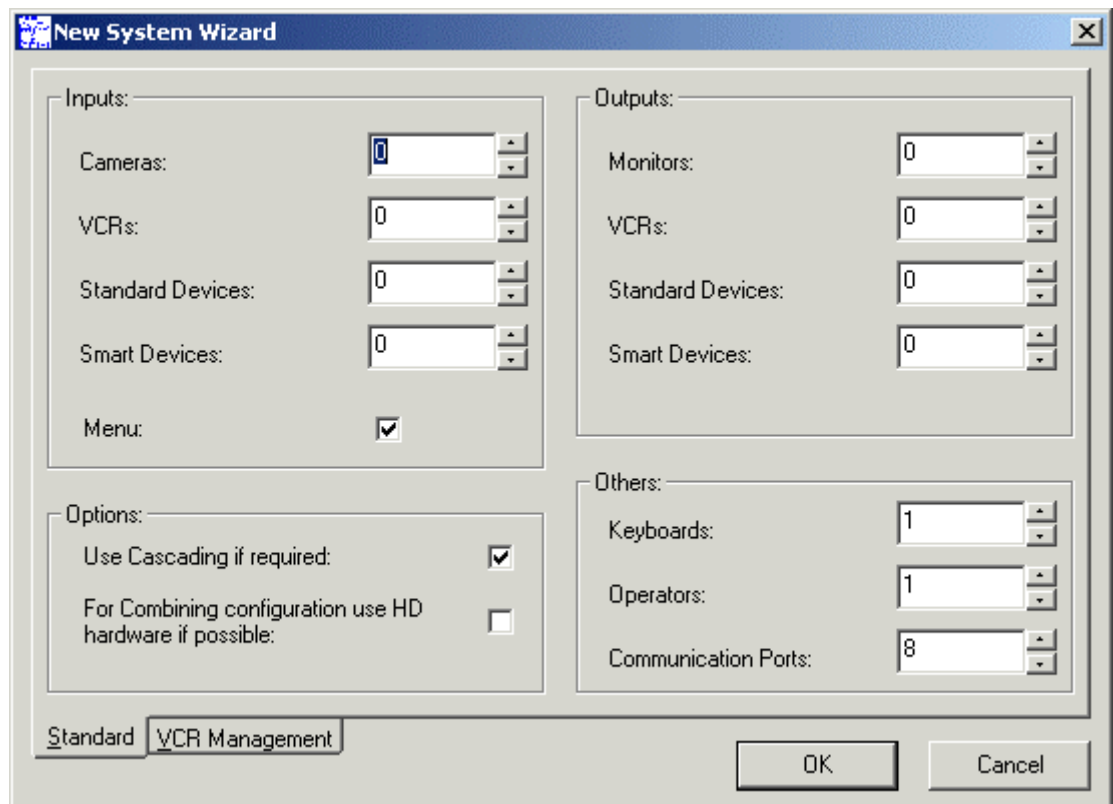
2.6 MAXPRO-Net NEW SYSTEM WIZARD

To configure a new system using the New System Wizard, perform the following steps:

1. Select **Tools** -> **New System Wizard** from the menu bar, as shown in the following illustration.



2. The following New System Wizard window appears.



2.6.1 Standard Tab


Inputs	The total number of video inputs allowed in a MAXPRO-Net system is 9999.
Cameras	Enter the number of cameras (fixed and PTZ) in the system. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
VCRs	Enter the number of videocassette recorders connected to video inputs in the system. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Standard Device	Enter the number of standard devices (other devices, freeze frames, etc.). Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Smart Device	Enter the number of smart devices (such as multiplexers) in the system. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Menu	Assigns the system menu output to a video input. If an operator is required to log on the system to access the system configuration, the Menu check box must be selected in order for the operator to view the system menu.
Outputs	The total number of video outputs allowed in a MAXPRO-Net system is 999.
Monitors	Enter the number of monitors in the system. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
VCRs	Enter the number of videocassette recorders connected to video outputs in the system. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Standard Device	Enter the number of standard devices (other devices, freeze frames, etc.). Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Smart Device	Enter the number of smart devices (such as multiplexers) in the system. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.

Options	
Use Cascading If Required	If the system is using a cascading configuration, select the field by left mouse clicking on the check box. Left mouse clicking on this field toggles select and deselect. If the check box contains a check mark, the field is selected.
For Combining configuration use HD hardware if possible	If the system is using a Combining configuration, select the field by left mouse clicking on the check box. Left mouse clicking on this field toggles select and deselect. If the check box contains a check mark, the field is selected.
Others	
Keyboards	Enter the number of keyboards in the system. The maximum number of keyboards per system is 99. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Operators	Enter the number of operators that will be using the system. The maximum number of operators per system is 99. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Communication Ports	Enter the number of communication ports in the system. The maximum number of communication ports in a single system is 20. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.

2.6.2 VCR Management Tab

To configure the VCRs in the system left mouse click on the VCR Management tab. The following dialog box opens.

VCRs	
Dedicated VCRs	Enter the number of dedicated VCRs in the system. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Dedicated VCRs begin in next Subrack	Left mouse click on this box (check mark in the box) if you want the dedicated VCRs to begin in the next subrack.
Standby VCRs	Enter the number of standby VCRs. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
VCRs Per Bank	Enter the number of VCRs per bank. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.

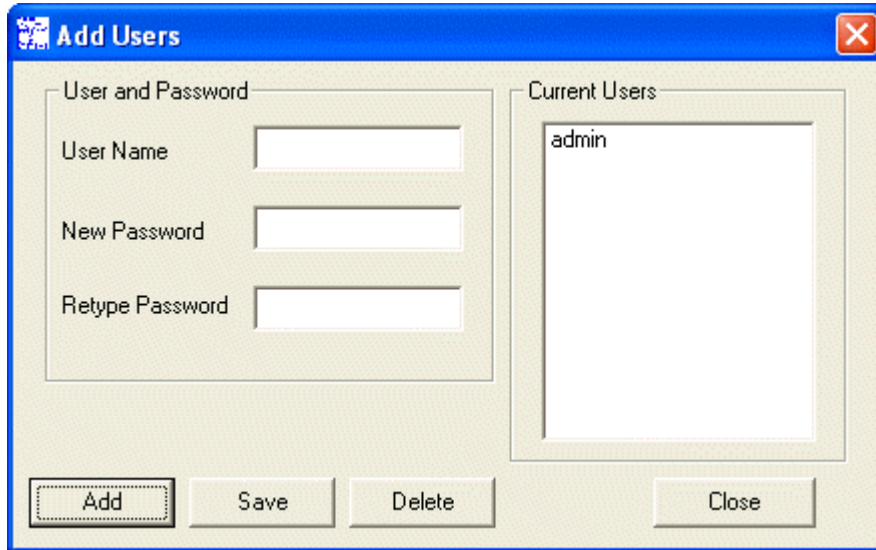
Pretext Parameters	
Text Position	Enter the X and Y coordinates on the video display to position text. Press the Tab key on the keyboard to move to the next field or left mouse click on another field. Pressing Shift+Tab moves the cursor to the previous field.
Text Attributes	<p>Left mouse click on the -S-E button to open the text attributes dialog box.</p>  <p>Select either the Enhanced text card or Hidden text card as applies to your system. The Shadow and Double Height features both can be selected for either type text card. If you left mouse click on the Select All button, the Hidden text card, Shadow, and Double Height are selected.</p> <p>When the text attributes are set, left mouse click on the OK button. Left mouse click on the Cancel button to exit the dialog box without making changes.</p>
VCRs per PreText Subrack	Enter the number of VCRs per PreText Subrack.

When your video system is configured, press the OK button. The Setmax program creates the files required to setup your system. Each file Setmax creates is represented by a tab in the Setmax window. The file name of the master file that contains the individual files (tabs) is title.max.

2.7 ADDING USERS

To add new users of SetMax, perform the following steps:

1. Select **Tools** -> **Add Users** from the menu bar. The following dialog appears:



2. Click Add.
3. Type the user name and the password in the respective fields and click Save.
4. Select the user under Current Users and click Delete to delete the existing user. However, you cannot delete the Admin user, which is a default one.
5. Click Close to close the Add Users dialog.

2.8 EDITING THE SETMAX CONFIGURATION

To select a file, left click on its tab or press Alt and the underlined letter on the tab. For example, press Alt+I at the same time to select the Video Inputs file.

To edit a field within a configuration page:

- a) Click on the field using the left mouse button (left mouse click) or use the up, down, left, and right arrows on the keyboard to move to the desired field and press Enter. When the field is active, the background turns from yellow to white and the cursor blinks within the field. If there is a pull-down menu for the field, a down arrow appears on the right side of the cell.
- b) Enter the desired information in the field and press Enter, or select an option from the pull-down menu and press Enter. The cursor moves to the field below.
- c) To access a pull-down menu, left click on the down arrow in the field.
- d) To select an option in a pull-down menu, left mouse click on the option or press the up and down arrows keys on the keyboard until the desired option is highlighted. Press Enter on the keyboard to enter the selection in the cell.
- e) To view more columns within a file, left mouse click on the arrows in the horizontal scroll bar on the bottom right side of the window. To view more rows within a file, left mouse click on the arrows in the vertical scroll bar on the right side of the window.
- f) To exit the edit mode without changing the field, press Esc on the keyboard.

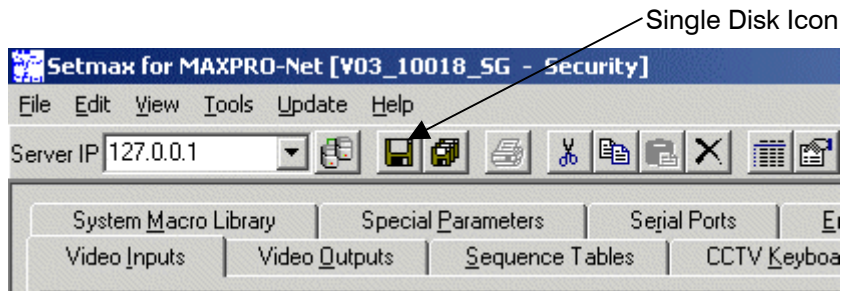
Refer to the following chapters for assistance in editing each file for your system.

2.9 SAVING DATA

Periodically, save your editing to safeguard against loss of information.

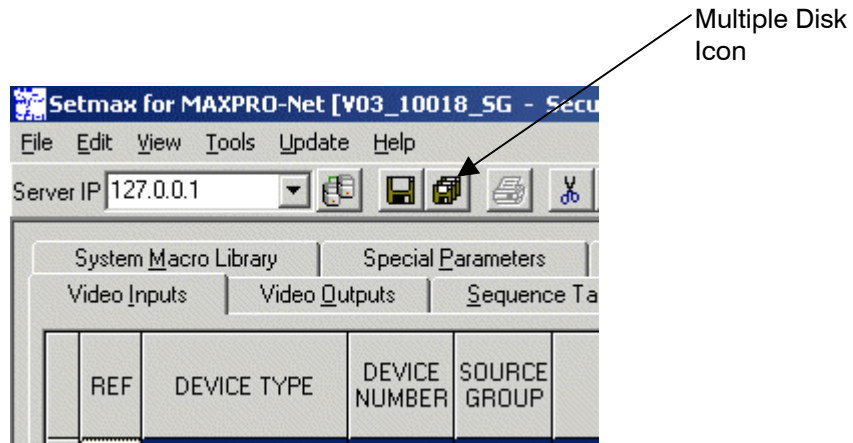
To save information entered in the **current file**,

Left click on **File**, then left click on **Save** or left click on the single Disk Icon.



To save information entered in **all files**,

Left click on **File** then left click on **Save All** or left click on the Multiple Disk Icon.

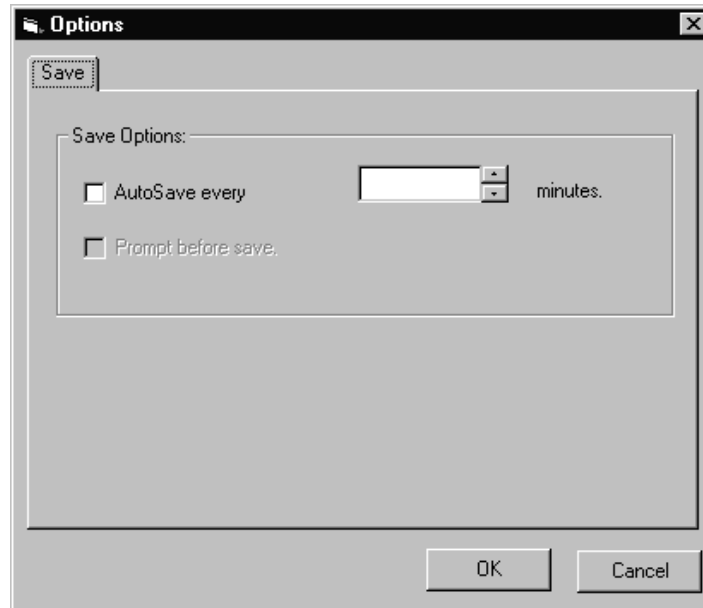


For the operations that take few seconds / considerable time to get the response, the notification will be displayed with the message to allow users understand that a specific task is in progress.

2.10 AUTOSAVE

You can have SetMax save the data automatically at designated intervals. Perform the following procedure to have SetMax automatically save your changes.

1. Left mouse click on Tools on the main menu.
2. Left mouse click on Options. The following dialog box opens.



3. Left mouse click on the AutoSave every check box to select AutoSave.
4. In the minutes field, enter how often (1-60 minutes) you want SetMax to save your files. For example, enter 10 in this field to have SetMax save your files every 10 minutes.
5. If you want SetMax to prompt you before saving, left mouse click on the Prompt before saving check box. If this box is left unchecked, SetMax will save at the designated intervals without advising you.

Once the required configuration is completed, the MAXPRO-Net server can be restarted to make the system operational. If you are starting the system for the first time, the time and date will need to be set to your local time. Refer to the operator's manual for the procedures to set the date and time.

2.11 CLOSING SETMAX

After saving all changes, close the file.

1. Left click on **F**ile.
2. Left click on **E**xit. If you haven't saved your files, you will be prompted to save. Left click on Yes to save editing, No to exit without saving, or Cancel to end the Exit command.

2.12 SETMAX ADD WIZARD

Your video system can be expanded (if it has not reached the maximum devices) using the Add Wizard. The devices that can be added using the Wizard are Video Inputs, Video Outputs, Auxiliary Control Outputs, External Alarm Inputs, CCTV Keyboards, and Intercept Keys.

1. Select the tab of the device type where you want to add devices. Left mouse click on Tools on the MAXPRO-Net menu bar then left mouse click on Add Wizard. The following dialog box opens.
2. Select a device within the file to use for a template of the additional device(s).

The 'Add Wizard' dialog box is shown with the following configuration:

- Tab: Default
- Template Device: Camera 1
- Number of devices to add: 1
- Add from line: 129 To: 129

REF	DEVICE TYPE	DEVICE NUMBER	SOURCE GROUP	DEVICE DESCRIPTION	PRIMARY SUBTRACT ID
	Same	Increment	Same	Increment	Same

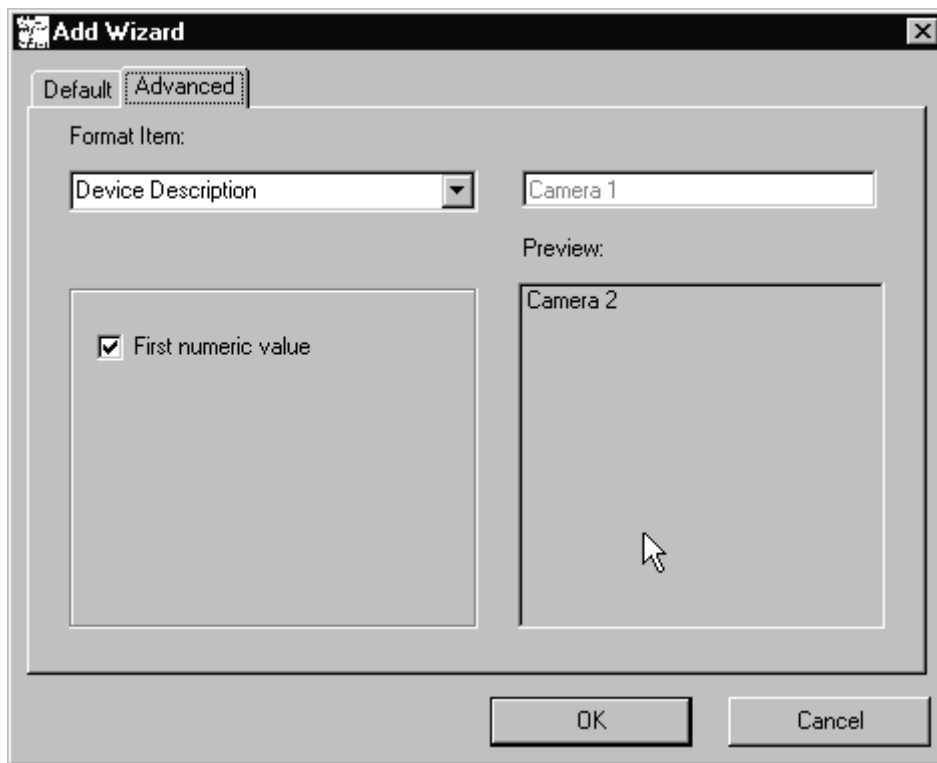
Buttons: OK, Cancel

2.12.1 Default Tab

Default Tab	
Template Device	The template device defaults to the device type of the device selected. For example, if camera 1 on the video inputs tab is selected, the additional devices will be setup the same as camera 1. The user can change any necessary parameters after inserting the devices.
Number of Devices to Add	Enter the number of devices you want to add to your current system and press Enter on the keyboard.
Add from line	The add wizard starts the line numbering with the next available device. For example, if your system contains 128 cameras, the add wizard starts the line numbering at 129.

2.12.2 Advanced Tab

Left mouse click on the Advanced Tab.




Advanced Tab	
Format item	The format item is used to define the field of the template to be used for formatting the new device. The format item is selectable depending on the device being added. For example, a video input format item can only be device description. A video output format item is selectable between device description or default video input. Select the desirable format item for the device being added.
First numeric value	Check this box to increase the numeric value of the new device by one more than the selected template device. For example, if the Device Description is Camera 1, when you check this box, the Device Description for the first added device is Camera 2. If you do not check this box, the camera description would remain the same as the selected template. In the above example, the camera description would remain at Camera 1 for the new device.

When the fields are completed for the added devices, left mouse click on the OK button.

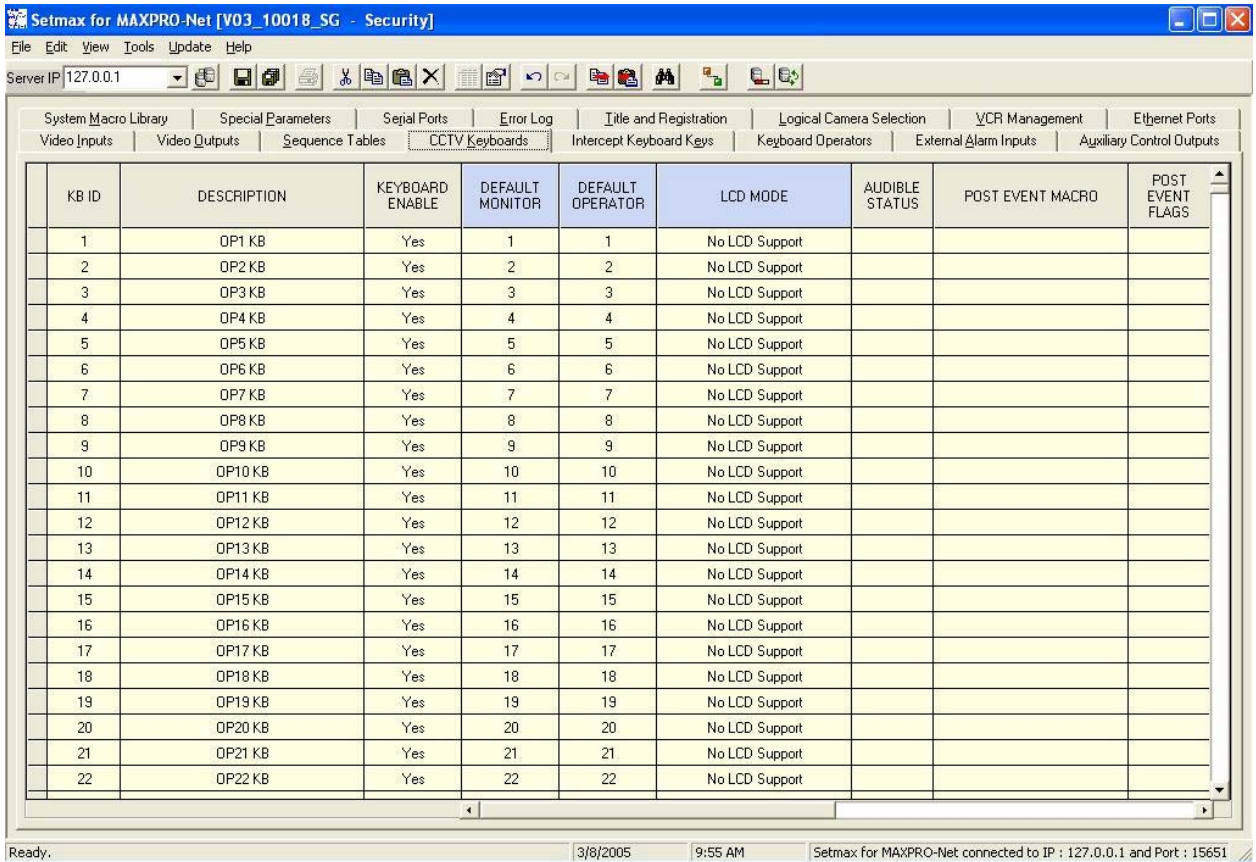
To exit the wizard without adding devices, left mouse click on the Cancel button.

Configure the added devices as required for each device. Refer to the following chapters for assistance. When new devices are configured, save all data. The changed configuration can be updated to the MAXPRO-Net Server either through LIVE update or by COLD BOOT as explained in the following topics.

2.13 LIVE CONFIGURATION UPDATE

Configurations can be changed in SetMax and updated live to the server by selecting the Live Update button  or selecting Update option from the Update menu.

If there is a column label with a blue color background (in column heading) under any of the SetMax tabs, it indicates that those configuration changes will not be live updated to the MAXPRO-Net server. However, these configurations changes take effect only on a cold boot of the server. The following illustration shows some of the columns with blue color background, which do not get live updated to the server:



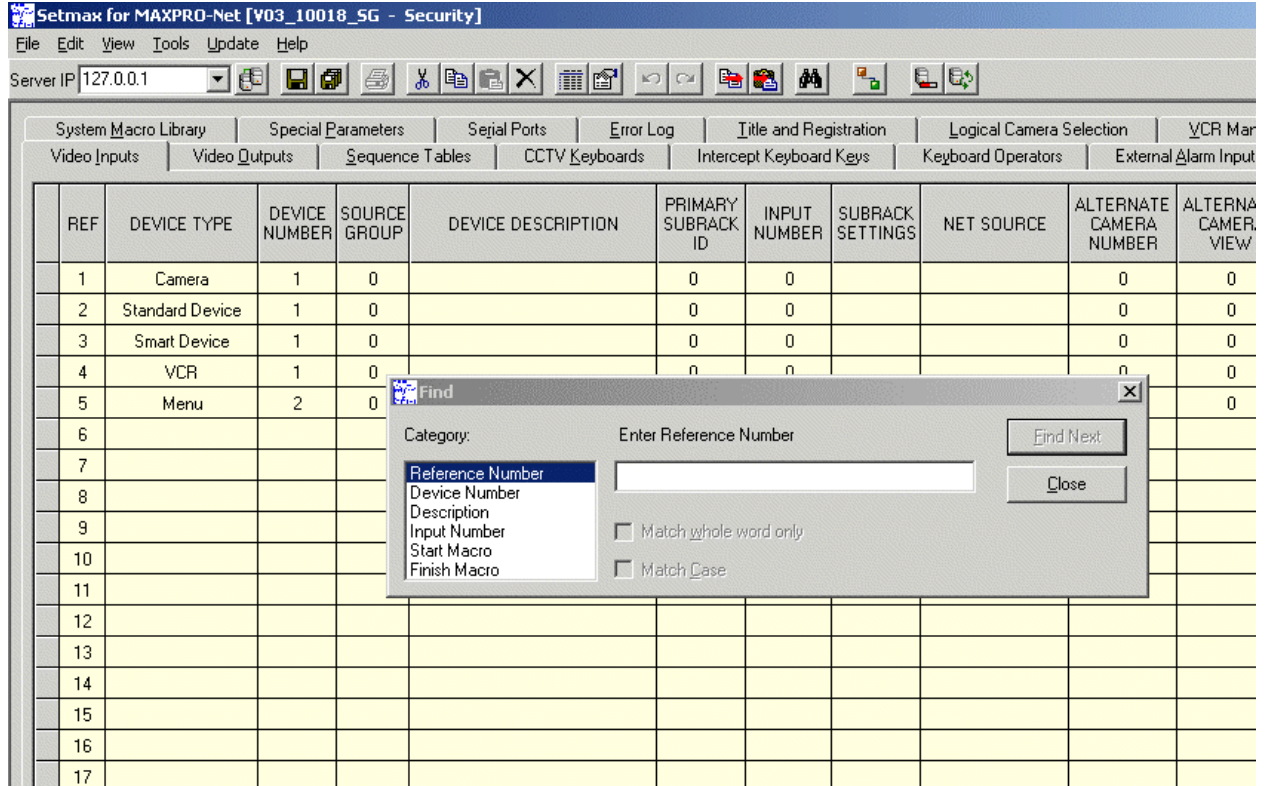
The screenshot shows the 'CCTV Keyboards' tab in the Setmax software. The table below lists 22 keyboard configurations. The 'LCD MODE' column is highlighted in blue, indicating that changes to this column will not be live-updated to the server.

KB ID	DESCRIPTION	KEYBOARD ENABLE	DEFAULT MONITOR	DEFAULT OPERATOR	LCD MODE	AUDIBLE STATUS	POST EVENT MACRO	POST EVENT FLAGS
1	OP1 KB	Yes	1	1	No LCD Support			
2	OP2 KB	Yes	2	2	No LCD Support			
3	OP3 KB	Yes	3	3	No LCD Support			
4	OP4 KB	Yes	4	4	No LCD Support			
5	OP5 KB	Yes	5	5	No LCD Support			
6	OP6 KB	Yes	6	6	No LCD Support			
7	OP7 KB	Yes	7	7	No LCD Support			
8	OP8 KB	Yes	8	8	No LCD Support			
9	OP9 KB	Yes	9	9	No LCD Support			
10	OP10 KB	Yes	10	10	No LCD Support			
11	OP11 KB	Yes	11	11	No LCD Support			
12	OP12 KB	Yes	12	12	No LCD Support			
13	OP13 KB	Yes	13	13	No LCD Support			
14	OP14 KB	Yes	14	14	No LCD Support			
15	OP15 KB	Yes	15	15	No LCD Support			
16	OP16 KB	Yes	16	16	No LCD Support			
17	OP17 KB	Yes	17	17	No LCD Support			
18	OP18 KB	Yes	18	18	No LCD Support			
19	OP19 KB	Yes	19	19	No LCD Support			
20	OP20 KB	Yes	20	20	No LCD Support			
21	OP21 KB	Yes	21	21	No LCD Support			
22	OP22 KB	Yes	22	22	No LCD Support			

Ready. 3/8/2005 9:55 AM Setmax for MAXPRO-Net connected to IP : 127.0.0.1 and Port : 15651

2.14 FINDING CONFIGURATION DATA

Select the Edit->Find option or press F3 to find the data from the current tab. The labels of each column is listed under Category as shown in the following illustration:




2.15 SERVER COLD BOOT AND WARM BOOT

You can perform cold boot or warm boot of the MAXPRO-Net server from SETMAX.

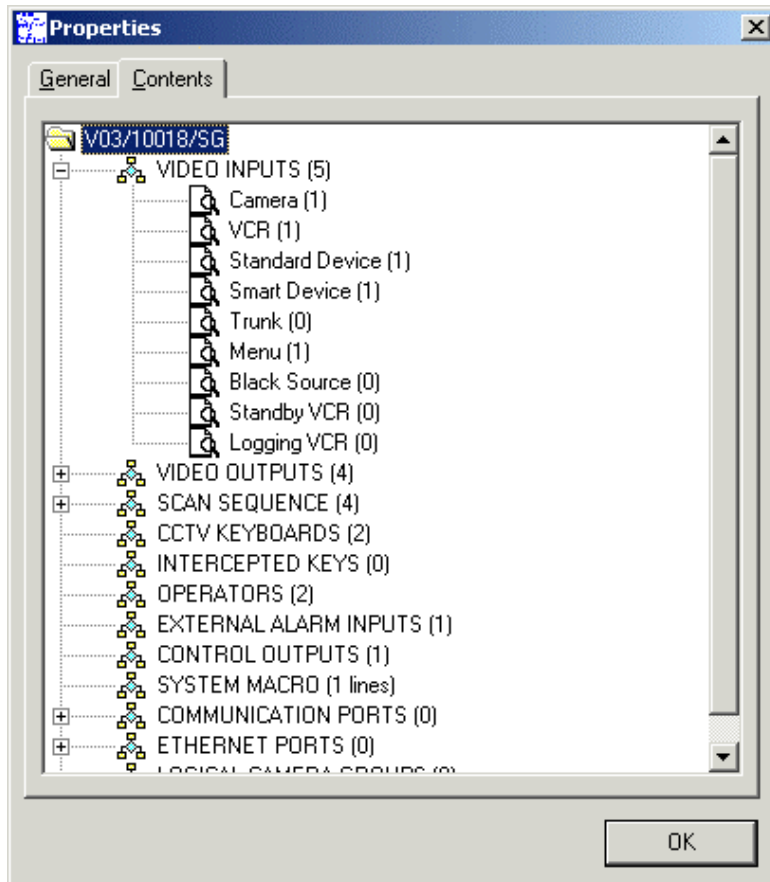


Server ColdBoot []: Use this option to restart the MAXPRO-Net server.

Server WarmBoot []: Warm Boot does not require any restart of the server. Selection of this option reinitializes all the devices connected to Max system without any restart or shutdown of MAXPRO-Net server.

2.16 SETMAX PROPERTIES

The properties dialog provides details about number of devices configured in SetMax as shown in the following illustration:



Notes:

SECTION 3: VIDEO INPUTS

3.1 DEFINING VIDEO INPUTS

Selection of the **Video Inputs** tab opens the file for editing the properties for each video input. The details for each field in the file are described below.

The screenshot shows the 'Setmax for MAXPRO-Net [V03_10018_SG - Security]' application window. The 'Video Inputs' tab is selected in the top menu. Below the menu is a toolbar and a server IP dropdown set to '127.0.0.1'. The main area contains a table with the following columns: REF, DEVICE TYPE, DEVICE NUMBER, SOURCE GROUP, DEVICE DESCRIPTION, PRIMARY SUBRACK ID, INPUT NUMBER, SUBRACK SETTINGS, BYPASS SUBRACK ID, COMBINER SUBRACK ID, COMBINER INPUT NUMBER, NET SOURCE, and ALTERNATE CAMERA NUMBER. The table lists 22 video inputs, with the first being a pre-selected input and the others being cameras numbered 3001 through 3021.

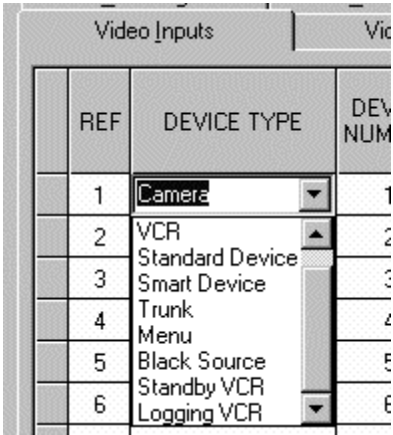
REF	DEVICE TYPE	DEVICE NUMBER	SOURCE GROUP	DEVICE DESCRIPTION	PRIMARY SUBRACK ID	INPUT NUMBER	SUBRACK SETTINGS	BYPASS SUBRACK ID	COMBINER SUBRACK ID	COMBINER INPUT NUMBER	NET SOURCE	ALTERNATE CAMERA NUMBER
1		0	0	#19 Pre-sel (SEC)	0	0		0	0			0
2	Camera	3001	1	C-3001	1	1		0	20	A		0
3	Camera	3002	1	C-3002	1	2		0	20	A		0
4	Camera	3003	1	C-3003	1	3		0	20	A		0
5	Camera	3004	1	C-3004	1	4		0	20	A		0
6	Camera	3005	1	C-3005	1	5		0	20	A		0
7	Camera	3006	1	C-3006	1	6		0	20	A		0
8	Camera	3007	1	C-3007	1	7		0	20	A		0
9	Camera	3008	1	C-3008	1	8		0	20	A		0
10	Camera	3009	1	C-3009	1	9		0	20	A		0
11	Camera	3010	1	C-3010	1	10		0	20	A		0
12	Camera	3011	1	C-3011	1	11		0	20	A		0
13	Camera	3012	1	C-3012	1	12		0	20	A		0
14	Camera	3013	1	C-3013	1	13		0	20	A		0
15	Camera	3014	1	C-3014	1	14		0	20	A		0
16	Camera	3015	1	C-3015	1	15		0	20	A		0
17	Camera	3016	1	C-3016	1	16		0	20	A		0
18	Camera	3017	1	C-3017	1	17		0	20	A		0
19	Camera	3018	1	C-3018	1	18		0	20	A		0
20	Camera	3019	1	C-3019	1	19		0	20	A		0
21	Camera	3020	1	C-3020	1	20		0	20	A		0
22	Camera	3021	1	C-3021	1	21		0	20	A		0

At the bottom of the window, the status bar shows: Ready, 3/8/2005, 9:42 AM, Setmax for MAXPRO-Net connected to IP : 127.0.0.1 and Port : 15651

Video Inputs
The total number of video inputs allowed in a MAXPRO-Net system is 9999.

Ref The video input reference number is purely a reference number used to distinguish one video input device from another (regardless of the video input device type – cameras, VCRs, etc.). The video input reference number field is NOT a changeable field.

Device Type Each video input device must be given a device type so MAXPRO-Net knows what selection and control parameters apply to the device. You may either select the device type from the list box as shown below or type in the required device (most of the device types are selectable by merely typing in the first character, e.g. c or C will automatically select Camera).



The currently supported video input device types are as follows:

- Camera - fixed and PTZ
- VCR (video cassette recorder) - dedicated or Dub VCR
- Smart Device - devices such as multiplexers
- Standard Device - other devices, freeze frames, etc.
- Trunk - trunk video input (from a networked system)
- Menu - MAXPRO-Net system menu (using MaxMon)
- Black Source - black source for monitor blanking, etc.
- Standby VCR - Standby VCR as used in VCR Management
- Logging VCR - Monitor logging VCR as used in VCR Management

When the desired device type is displayed in the field, press Enter on the keyboard.

Video Inputs, Continued	
Device Number	<p>Each video input device must have a unique device number allocated to it. This device number is unique with respect to other video inputs of the <i>same type</i> and <i>does not</i> relate to the video input reference number (REF) or its physical connection to the system.</p> <p>Definitions in the video input DEVICE TYPE and DEVICE NUMBER fields allow exact selection of the video input device from a keyboard. The valid range for device numbers is 1 – 9999. Enter the desired device number and press Enter on the keyboard.</p>
Source Group	<p>A source group is a group of video input devices (cameras, VCR's etc.) that are linked together as specific access groups. This allows the system to control which video output channels have access to which video inputs. Due to hardware restrictions some monitors may only be able to access certain video inputs. Source groups are also used to partition video input selections for specific operators.</p> <p>A source group number is allocated for every video input. The default source group is 0, the range of allowable source groups is 0 – 99.</p> <p>Enter the desired source group number and press Enter on the keyboard.</p>
Device Description	<p>This is an 18-character description used to identify the selected video input device. It is displayed on a monitor (or other video output channel with text insertion) whenever the video input device is selected. It is also used by video fail alarms to identify the failed video input device.</p> <p>Enter the desired description (up to 18-characters) in the field and press Enter on the keyboard.</p>
Primary Subrack ID	<p>This is the address of the subrack to which the video input is physically connected. Valid primary subrack addresses range from 1 – 99. A value of '0' indicates that no video switching will occur when the device is selected (often used where a device needs to be selected by a keyboard for control purposes, but no video switching is required).</p> <p>Enter the address of the subrack and press Enter on the keyboard.</p> <p>For Videoblox subrack, this ID represents the 'V'+communication port number to which the VideoBlox analog video input cards are connected. Valid primary subrack addresses range: 'V'+maximum communication ports. Suffix 'A' with primary subrack ID (e.g., V1A) indicates that the audio is enabled for that particular video input.</p>

Video Inputs, Continued	
Input Number	<p>This is the physical connection point on the primary subrack. The valid range for the video input number is 1 - 128. Certain subrack types have fewer than 128 video inputs.</p> <ul style="list-style-type: none">• HMX1132 - maximum video input number is 32.• HMX32128 HD-Series subrack .. up to the maximum 128. <p>Enter the video input number on the subrack and press Enter on the keyboard.</p> <p>For VideoBlox subrack, this is the physical input location of the video input channel. The valid range for the VideoBlox is 1 - 4096.</p> <p>For input numbers 1 to 16 – the input card address is 0.</p> <p>For input numbers 17 to 32 – the input card address is 1.</p>

Video Inputs, Continued

Subrack Settings

Selecting the SUBRACK SETTINGS field opens three additional fields that are used in cascading and combining configurations.

SUBRACK SETTINGS	BYPASS SUBRACK ID	COMBINER SUBRACK ID	COMBINER INPUT NUMBER
	3	0	
	0	20	A
	0	20	A
	0	20	A

Bypass Subrack ID

This field is used in cascading configurations only and contains the address of the subrack, which is to be bypassed when selecting the current video input device. For more comprehensive details please refer to the CASCADING section of the Commissioning Manual. For VideoBlox subrack, the Bypass subrack ID value should be 1-16, depending on the input device number. For the first 1-255 physical inputs, the bypass ID is 1, and for the next 1-255 inputs, the bypass ID is 2, and so on.

Combiner Subrack ID

This field may be used in both cascading and combining configurations. In a cascading configuration consisting of three subracks, the COMBINER SUBRACK ID contains the address of the second subrack that is to be bypassed when selecting the current video input device. For more comprehensive details please refer to the CASCADING section of the Commissioning Manual. The following figure shows typical entries for a cascaded system:

SUBRACK SETTINGS	BYPASS SUBRACK ID	COMBINER SUBRACK ID	COMBINER INPUT NUMBER
	3	0	
	0	20	A
	0	20	A
	0	20	A

In combining configurations this field contains the address of the combiner subrack. For more comprehensive details please refer to the COMBINING section of the Commissioning Manual. The valid address values are 0 (signifying no cascading or combining are used) through to 99.

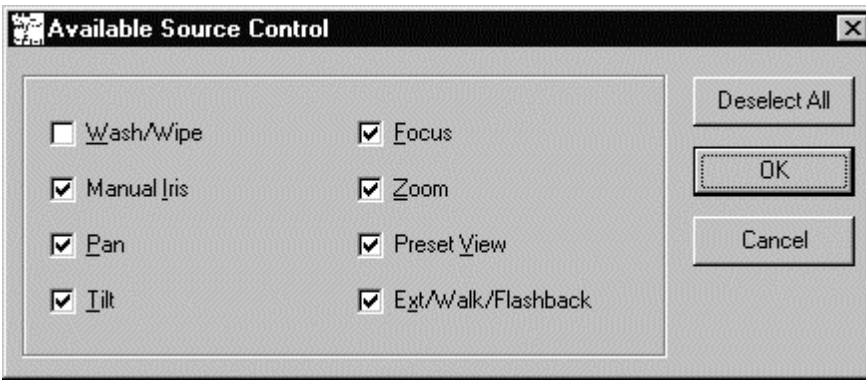
Subrack Settings, Cont.

Combiner Input Number

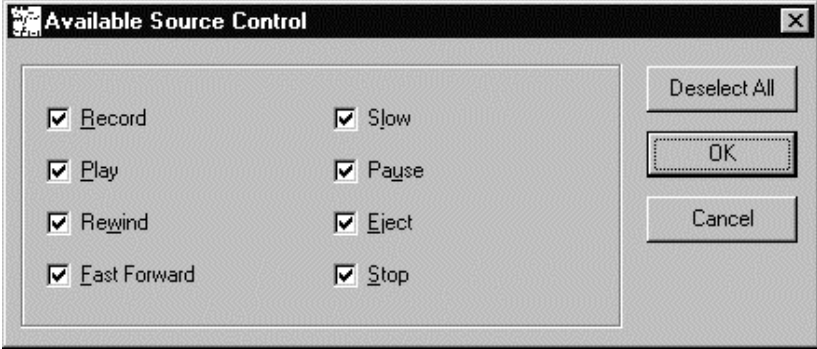
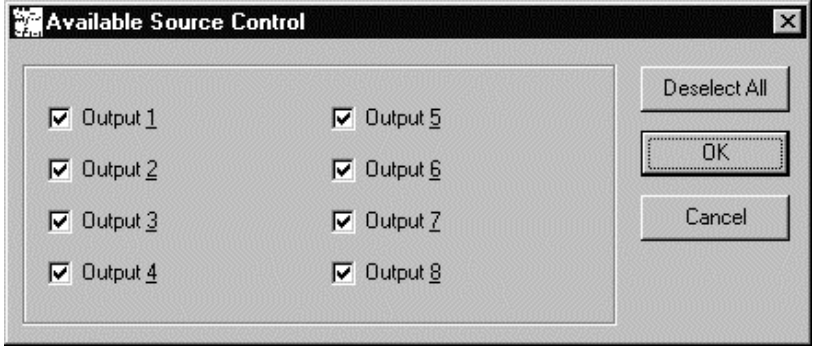
This field defines the combiner inputs to which the preselector subrack for the current video input is connected. Up to 32 preselector subracks may be configured, the combiner inputs for these are labeled A – Z and AA – AF. For more comprehensive details please refer to the COMBINING section of the Commissioning Manual.

Video Inputs, Continued

Net Source	<p>When the current video input is actually connected to another MAXPRO-Net system within a network configuration, the NET SOURCE field is used to specify the exact location and reference for the video input device.</p> <p>e.g. #03:C1234 the actual camera resides on network node 3 and is defined there as camera 1234.</p> <p style="padding-left: 40px;">LINK - signifies that status changes and actions performed on the current video input device will be broadcast on the network.</p> <p>The NET SOURCE field additionally allows for the definition of pseudo cameras, i.e. a combined camera and preset view position, which is allocated as a unique camera number.</p> <p>e.g. C56:V99</p> <p>For more comprehensive details, please refer to the NETWORKING section of the Commissioning Manual.</p>																												
Alternate Camera Number	<p>This field defines the alternate camera to be selected when the 'ALT' key is pressed on a keyboard. The range of valid camera numbers is 1 – 9999. The alternate camera also has to be defined elsewhere in the video input table. Zero (0) is the default value and indicates no alternate camera is defined.</p>																												
Alternate Camera View	<p>The alternate camera can also be a PTZ camera with view recall capability. In this case an actual VIEW number can be specified, pressing the 'ALT' key will now not only display the alternate camera, but will also automatically move it to the designated VIEW preset position. The valid camera views range is 1 – 99, 0 is the default value which indicates no camera view is to be selected.</p> <p>Note: As view number '0' is used to indicate that NO VIEW is specified, view '0' cannot be recalled by this field. The view must also be programmed in the camera for this feature to be functional.</p>																												
Source Control	<p>Selecting the SOURCE CONTROL field displays four additional fields that are used to define the control properties for the current video input device.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr style="background-color: #00FFFF;"> <th style="width: 15%;">SOURCE CONTROL</th> <th style="width: 15%;">CONTROL ID</th> <th style="width: 15%;">CONTROL SLOT</th> <th style="width: 15%;">CONTROL OFFSET</th> <th style="width: 15%;">AVAILABLE CONTROL</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">1</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">1</td> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> <td style="text-align: center;"> </td> </tr> </tbody> </table>				SOURCE CONTROL	CONTROL ID	CONTROL SLOT	CONTROL OFFSET	AVAILABLE CONTROL		1	2	3			1	3	3			1	4	5			1	6	4	
SOURCE CONTROL	CONTROL ID	CONTROL SLOT	CONTROL OFFSET	AVAILABLE CONTROL																									
	1	2	3																										
	1	3	3																										
	1	4	5																										
	1	6	4																										
	Control ID	<p>This field contains the address of the subrack where the controller for the current video input device (e.g. RD316, RD490 etc.) resides. The valid range for CONTROL ID is 1 – 799, a value of 0 indicates no control capability for the device.</p> <p>For VideoBlox subrack, this ID represents the communication port number to which the VideoBlox video input camera control lines are connected. Valid range: 'V' + maximum communication ports.</p>																											

Video Inputs, Continued		
Source Control Cont.	Control Slot	<p>This field defines the slot number within the control subrack where the controller for the current video input device (e.g. HRD316, HRD490 etc.) resides. Valid slot numbers are 1 – 32 for I/O and combination video/I/O subracks and 1 – 8 for HD Series subracks.</p> <p>Within subracks such as HMX1132 and HMX1600, the CONTROL SLOT is the <i>physical</i> slot where the controller card resides. Whereas within HD Series subracks (HMX32128) device control and I/O functions are mapped to <i>pseudo</i> slots as all of these functions exist on the subrack controller card (HMX128) located in slot 0.</p> <p>For VideoBlox subrack, the control slot number should be greater than zero.</p> <p>Valid range: 1 to 4.</p>
	Control Offset	<p>For controlling a PTZ camera, enter the ID number of the PTZ site receiver connected to that camera. The valid range for site ID's is 1 – 16. A 0 indicates that a hardwired relay output module is being used in the subrack slot for controlling that camera.</p> <p>When controlling other equipment types (e.g. VCRs) the CONTROL OFFSET field can be used to define the output number on the controller card in the specified subrack slot. The valid range of output numbers is 1 – 8. A 0 indicates that a hardwired relay output module is being used in the subrack slot for controlling the device</p> <p>For VideoBlox subrack, this represents the camera number of the video input channel. Valid range: 1 to 255.</p>
	Available Control	<p>Selecting this field brings up a dialog box which allows configuration of which control functions are available for the current video input device. The available control functions vary between the different types of video input device as shown in the following figures.</p> <p>To select (or deselect) a control, left mouse click on the check box beside the control function. If the box contains a check mark, the function is selected. To select or deselect all the control functions, left mouse click on the Select All or Deselect All button.</p> <p>When the desired control functions are selected, left mouse click on the OK button. To exit the dialog box with making changes, left mouse click on the Cancel button.</p> <p>Camera:</p> 

Video Inputs, Continued

<p>Source Control Cont.</p>	<p>Available Control, Cont.</p>	<p>VCR, Logging VCR, Standby VCR:</p>  <p>Standard Device, Smart Device:</p> 
------------------------------------	--	--

Control Locked The source controls of a PTZ camera site (or VCR etc.) can be locked to prevent user control of the device. The default lock/unlock status is specified here.
Note: This locked status can be unlocked by the system operator (if they have the correct System Access Level) from the MAXPRO-Net Menu System (using MaxMon).

Source Disable When a video input needs to be temporarily removed from the video input selection table, the SOURCE DISABLE field would be set to YES. While set, the video input device *CANNOT* be selected by any operator. Under normal operation this field is 'NO'. To disable a particular video input device, a 'YES' is specified in this field. Enter Y or N in this field and press Enter on the keyboard.
 The SOURCE DISABLE state can be changed (using macro programming) while the system is in operation e.g. [C123=T] or [C123=F] or through MaxMon.

Pretext Selecting this field allows access to the parameters used to define pretext as used in VCR management applications (refer to the VCR Management section of the user's guide for a comprehensive description).

PRETEXT	PRETEXT SUBRACK ID	PRETEXT SLOT NUMBER	X	Y
	1	1	2	9
	1	2	2	9
	1	3	2	9
	1	4	2	9
	1	5	2	9

Video Inputs, Continued	
Pretext Subrack ID	<p>This field defines the address of the subrack, which contains the text insertion card (RD200, RD205, MX205, RD220) for pretext. The valid range of subrack addresses is 1 – 799, a value of 0 indicates pretext is not used.</p> <p>For VideoBlox subrack, this ID represents the 'V' + communication port number to which VideoBlox MVT (Multi Channel Video Titler) is connected. Valid range: 'V' + maximum communication ports.</p>
Pretext Slot Number	<p>This field defines the physical slot number within the pretext subrack where the text insertion card resides. The valid range of slot numbers is 1 – 32.</p> <p>For VideoBlox subrack, this number represents the physical input slot for the VideoBlox analog input channel in MVT. Valid range: 1 to 4096.</p> <p>For pretext slot numbers 1 to 16 – MVT address is 1. For pretext slot numbers 17 to 32 – MVT address is 2.</p>
X, Y	<p>These two fields define the horizontal (X) and vertical (Y) location of the pretext, valid positions are 1 –13. These X and Y coordinates are also the dynamic text coordinates where this feature is enabled for video output channels.</p>
Dynamic Equalisation	<p>Where text insertion modules which support dynamic cable equalization are utilized this field represents the cable length between the video input device and the switcher. Valid DYNAMIC EQUALISATION values are 1 – 8 representing units of one hundred meters of RG-59/BU coaxial cable.</p> <p>For different coaxial cable types the signal losses may be considerably different to the losses of RG-59/BU (e.g. RG-8 and RG-11 have considerably lower losses). Where different coaxial cable types are used the DYNAMIC EQUALISATION value should be varied to optimize image quality.</p> <p>Note: If a dynamic equalization value is stated for ONE camera, then ALL cameras must have a dynamic equalization value other than (0). Dynamic equalization serves to improve image quality by providing compensation for cable related transmission losses, dynamic equalization does not guarantee a maximally flat response with any given cable distance or type.</p>
Source Macro Flags	<p>This field allows for definition of the default cold boot state of the macro flags for the current video input device.</p> <p>Left mouse click on any of the fields to toggle their state, a ticked field indicates the macro flag is set TRUE. Left mouse click on the 'All' field to toggle the state of all macro flags.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> </div> <p>When the Source Macro Flags are set as desired, left mouse click on the OK button. To exit the dialog box without making changes, left mouse click on the Cancel button.</p>

Video Inputs, Continued											
Video Fail Slot	<p>To enable automatic video fail detection, enter the slot number where the video fail detector module is located. This would be in the primary video input pre-selection subrack specified earlier in the PRIMARY SUBRACK ID field. The valid subrack slot numbers are 1 – 32. HD Series subracks (HMX32128) perform video fail detection on the HMX128 subrack controller card, this is mapped to pseudo slots as follows:</p> <table style="margin-left: 20px;"> <thead> <tr> <th>Video Inputs</th> <th>Video Fail Slot</th> </tr> </thead> <tbody> <tr> <td>1 – 32</td> <td>11</td> </tr> <tr> <td>33 – 64</td> <td>12</td> </tr> <tr> <td>65 – 96</td> <td>13</td> </tr> <tr> <td>97 – 128</td> <td>14</td> </tr> </tbody> </table> <p>Enter a 0 when video fail detection is not required.</p> <p>NOTE: This is valid for cameras (and trunk inputs) only. For video inputs of other device types this field will NOT accept an entry.</p> <p>For VideoBlox Subrack, the Video fail slot should be 1.</p>	Video Inputs	Video Fail Slot	1 – 32	11	33 – 64	12	65 – 96	13	97 – 128	14
Video Inputs	Video Fail Slot										
1 – 32	11										
33 – 64	12										
65 – 96	13										
97 – 128	14										
Start Macro	<p>The START MACRO is executed whenever a video alarm condition is detected for the corresponding video input device.</p> <p>The video alarm types are:</p> <ul style="list-style-type: none"> • Video fail detection (for cameras) • PTZ site fail (for cameras) • PTZ site tamper (for cameras) • Video source related alarm (for VCRs) <p>Please refer to the MACRO GUIDE in the Operator’s Manual for comprehensive details of macro functionality.</p> <p>Type the desired macro number and press Enter on the keyboard.</p>										
Finish Macro	<p>The FINISH MACRO is executed whenever the video alarm condition is cleared (i.e. video signal, PTZ site fail, is restored to normal).</p> <p>Please refer to the MACRO GUIDE for comprehensive details of macro functionality.</p> <p>Type the desired macro number and press Enter on the keyboard.</p>										

SECTION 4: VIDEO OUTPUTS

4.1 DEFINING VIDEO OUTPUTS

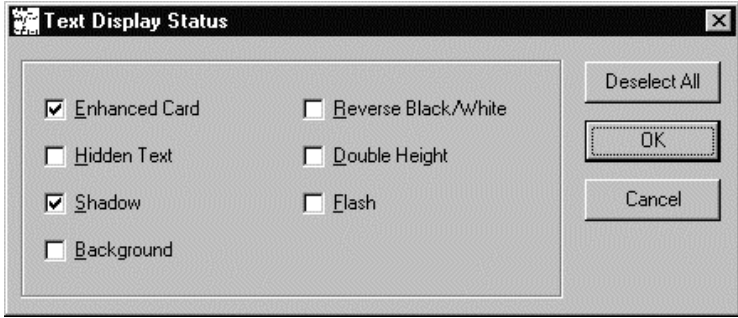
Selection of the **Video Outputs** tab opens the file for editing the properties for each video output. The details for each field in the worksheet are described below.

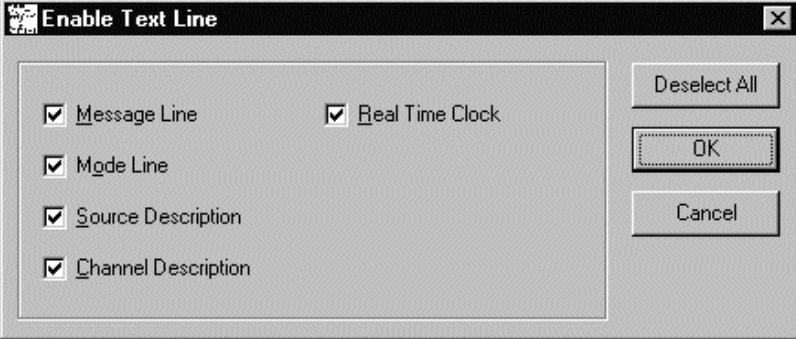
REF	SLOT	DEVICE TYPE	DEVICE NUMBER	DESCRIPTION TEXT	TEXT INSERTER SUBRACK	TEXT INSERTER SLOT	TEXT DISPLAY STATUS	X	Y	ENABLE TEXT LINE	TIME OUT	NET DEVICE	DEFAULT VIDEO INPUT	SEQ- UENCE	STATUS
1	1	Monitor	1	Mon 1	30	1		2	9		0		C3226	0	Halt
2	2	Monitor	2	MON 2	30	2		2	9		0		C3126	0	Halt
3	3	Monitor	3	MON 3	30	3		2	9		0		C3097	0	Halt
4	4	Monitor	4	MON 4	30	4		2	9		0		C3127	0	Halt
5	5	Monitor	5	MON 5	30	5		2	9		0		C3210	0	Halt
6	6	Monitor	6	MON 6	30	6		2	9		0		C3125	0	Halt
7	7	Monitor	7	MON 7	30	7		2	9		0		C3124	0	Halt
8	8	Monitor	8	MON 8	30	8		2	9		0		C3121	0	Halt
9	9	Monitor	9	MON 9	30	9		2	9		0		C3134	0	Halt
10	10	Monitor	10	MON 10	30	10		2	9		0		C3148	0	Halt
11	11	Monitor	11	MON 11	30	11		2	9		0		C3142	0	Halt
12	7	Monitor	7	MON 12	30	7		2	9		0		C3124	0	Halt
13	8	Monitor	8	MON 13	30	8		2	9		0		C3121	0	Halt
14	9	Monitor	9	MON 14	30	9		2	9		0		C3134	0	Halt
15	10	Monitor	10	MON 15	30	10		2	9		0		C3148	0	Halt
16	11	Monitor	11	MON 16	30	11		2	9		0		C3142	0	Halt
17	7	Monitor	7	MON 17	30	7		2	9		0		C3124	0	Halt
18	8	Monitor	8	MON 18	30	8		2	9		0		C3121	0	Halt
19	9	Monitor	9	MON 19	30	9		2	9		0		C3134	0	Halt
20	10	Monitor	10	MON 20	30	10		2	9		0		C3148	0	Halt
21	21	Trunk	2		0	0		0	0		0		C1	0	Halt
22	22	Trunk	3		0	0		0	0		0		C1	0	Halt

Video Outputs	
The total number of video outputs allowed in a MAXPRO-Net system is 999.	
Ref	The video output reference number is purely a reference number used to distinguish one video output device from another (regardless of the video output device type – monitors, VCRs, etc.). The video output reference number field is NOT a changeable field.

Video Outputs
The total number of video outputs allowed in a MAXPRO-Net system is 999.

<p>Slot</p>	<p>The slot number is used to identify the actual SLOT location of each video output channel. In a standard configuration, the default channel number allocations do not require any change. When one MAXPRO-Net system is controlling multiple partitioned video matrixes, it is necessary to redefine slot numbers for each video matrix used.</p> <p>Within HD Series subracks (MX32128) the video output channels are mapped to slots 1 – 32 (corresponding to physical outputs 1 – 32).</p> <p>Note: BE CAREFUL when redefining slot numbers. Source grouping must be used to prevent camera selections across matrix hardware boundaries.</p> <p>To change the slot number, type the desired number and press Enter on the keyboard.</p>																
<p>Device Type</p>	<p>Each video output device has a device type to indicate to MAXPRO-Net what selection and control parameters apply to the device. You may either select the required device type from the list box as shown below or by typing in the required type (most of the device types are selectable by merely typing in the first character e.g. m or M will automatically select Monitor).</p> <p>The currently supported video output device types are as follows:</p> <ul style="list-style-type: none"> • Monitor - standard video output device <div data-bbox="678 911 987 1234" data-label="Image"> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>SLOT</th> <th>DEVICE TYPE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Monitor</td> </tr> <tr> <td>2</td> <td>Monitor</td> </tr> <tr> <td>3</td> <td>VCR</td> </tr> <tr> <td>4</td> <td>Standard Device</td> </tr> <tr> <td>5</td> <td>Smart Device</td> </tr> <tr> <td></td> <td>Trunk</td> </tr> <tr> <td></td> <td>Standby VCR</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • VCR - video cassette recorder • Smart Device - devices such as multiplexers • Standard Device - other devices, freeze frames, etc. • Trunk - trunk video input (from a networked system) • Standby VCR - Standby VCR as used in VCR Management <p>When the desired device type is displayed, press Enter on the keyboard.</p> </div>	SLOT	DEVICE TYPE	1	Monitor	2	Monitor	3	VCR	4	Standard Device	5	Smart Device		Trunk		Standby VCR
SLOT	DEVICE TYPE																
1	Monitor																
2	Monitor																
3	VCR																
4	Standard Device																
5	Smart Device																
	Trunk																
	Standby VCR																
<p>Device Number</p>	<p>Each video output device must have a unique device number allocated to it. This device number is unique with respect to other video outputs of the <i>same type</i> and <i>does not</i> relate to the video output reference number (REF) or its physical connection to the system.</p> <p>Definitions in the video output DEVICE TYPE and DEVICE NUMBER fields allow exact selection of the video output device from a keyboard.</p> <p>The valid range for device numbers is 1 – 999.</p> <p>Enter the device number and press Enter on the keyboard.</p>																

Video Outputs	
The total number of video outputs allowed in a MAXPRO-Net system is 999.	
Description Text	<p>This is an 18-character description used to identify the selected video output device. It is displayed on the monitor (or other video output channel with text insertion).</p> <p>Type the desired description (up to 18 characters) and press Enter on the Keyboard.</p>
Text Inserter Subrack	<p>This field defines the address of the subrack, which contains the text insertion card (MX208, RD200, RD205, MX205, RD220) for this video output device. The valid range of subrack addresses is 1 – 799; a value of 0 indicates text is not used.</p> <p>Enter the desired value and press Enter on the keyboard.</p> <p>For VideoBlox subrack, this address represents the 'V' + communication port number to which the VideoBlox analog video output cards are connected. Valid range: 'V' + maximum communication ports.</p>
Text Inserter Slot	<p>This field defines the slot number within the subrack where the text insertion card resides. The valid range of slot numbers is 1 – 32. HD Series hardware supports the MX208 8 channel video output/text insertion card, the TEXT INSERTER SLOT entries correspond with the physical video output channel of the subrack.</p> <p>For VideoBlox subrack, this number represents the physical input location of the video output channel. Valid range: 1 to 255 for VideoBlox.</p>
Text Display Status	<p>Selecting the TEXT DISPLAY STATUS field provides for definition of the text attributes for this video output device.</p> <div style="text-align: center;">  </div> <p>Left mouse click on the check box beside the attribute field to toggle its status. If a check mark is present, the attribute is selected.</p> <p>To select or deselect all attributes, left mouse click on the Select All or Deselect All button. When the desired attributes are selected, left mouse click on the OK button. To exit the dialog box without making changes to the attributes, left mouse click on the Cancel button.</p>
X, Y	<p>These two fields define the horizontal (X) and vertical (Y) location of the onscreen text, valid positions are 1 –13. A value of 0 in both of these fields enables the dynamic text positioning function, whereby text will be positioned according to the X and Y coordinates specified in the PRETEXT fields of the currently selected video input device.</p> <p>Enter the desired value and press Enter on the keyboard.</p>

Video Outputs	
The total number of video outputs allowed in a MAXPRO-Net system is 999.	
Enable Text Line	<p>Selecting the ENABLE TEXT LINE field allows for configuration of the text lines to be displayed on the current video output device.</p>  <p>Left mouse click on the check boxes beside the selections to toggle their status. A check mark in the box indicates it is selected. Left mouse click on OK when selections are as desired. To Deselect All, left mouse click on Deselect All. To exit the Enable Text Line dialog box without making any changes, left mouse click on Cancel.</p>
Time Out	<p>When a video monitor (or other video output device) is not being used it is sometimes desirable to remove the displayed picture from the monitor, leaving a blank screen. The system will try to select the BLANK video input defined in the video input table so a Black Video Source could be displayed. If no BLANK input is defined, then the system will only remove the text insertion window, leaving the actual picture on display. The display time-out period can be set from 1 – 999 seconds. Enter a zero (0) in this field if the display time out function is not required.</p>
Net Device	<p>When the current video output device is actually connected to another MAXPRO-Net system within a network configuration, the NET DEVICE field is used to specify the exact location and reference for the video output device.</p> <p>e.g. #03:M12 the actual monitor resides on network node 3 and is defined there as monitor 12.</p> <p> LINK signifies that status changes and actions performed on the current video output device will be broadcast on the network.</p> <p>For more comprehensive details please refer to the NETWORKING section of the Commissioning Manual.</p>
Default Video Input	<p>This field allows definition of the video input device to be selected to the current video output device when the MAXPRO-Net system is first powered up.</p> <p>Enter the video input Device Type (as a single letter) followed by the logical device number 1 – 9999 of the video input device required and press Enter on the keyboard.</p> <p>e.g. C12 .. camera 12 or C999 .. camera 999 or R23 .. VCR 23</p> <p>Note: The selected video input must be of a suitable source group for this video output channel.</p>

Video Outputs	
The total number of video outputs allowed in a MAXPRO-Net system is 999.	
Sequence	<p>Each video output device may be configured with any one of the 999 video scan sequences as a default scan sequence. Enter 0 if a default is not required.</p> <p>Note: If a scan sequence number greater than 100 is used, make sure that it has been defined in the scan sequence table before booting the MAXPRO-Net video environment.</p>
Status	<p>When a video output device is to automatically begin running a scan sequence (at power-on), the scan status must be specified in this field. Select 'Run' to automatically begin running the default scan sequence number. Select 'Halt' if the default scan sequence specified should not automatically start.</p>
Output Lock	<p>Video output devices may be locked to prevent changing to another video input device. This field defines the default power up lock status for the current video output device.</p> <p>The lock status may be changed from the system menu using MaxMon while MAXPRO-Net is running and via macro control.</p>

Video Outputs

The total number of video outputs allowed in a MAXPRO-Net system is 999.

Source Group

Each video output device may be granted access to any of the source groups, which are allocated to every video input device. This allows the system to control which video output channels have access to which video inputs. Due to hardware restrictions some monitors may only be able to access certain video inputs. Source groups are also used to partition video input selections for specific operators.

When the Source Group field is selected, the field changes to a Display Icon.

Left mouse click on the Display Icon to view the Output Source Access table.

All	0	10	20	30	40	50	60	70	80	90
0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Left mouse click on a check box to toggle the source group access state. Left click on the All button to toggle all check boxes. Left click on the numbered button (1, 2, 3, etc.) to the left of a horizontal row to toggle all the check boxes in a horizontal row. Left click on the numbered button (0, 10, 20, etc.) at the top of a row of vertical check boxes to toggle all the check boxes in a vertical row.

A check mark in the box indicates the video output device has access to a source group.

Left mouse click OK to save changes. Left mouse click Cancel to exit the display without saving changes.

Video Outputs

The total number of video outputs allowed in a MAXPRO-Net system is 999.

Alarm Group

The display of alarms on video output devices may be tailored through entries in the Display Alarm Group panel. Each field, if selected, will allow the display of alarms from that alarm group on the current video output device.

	All	0	10	20	30	40	50	60	70	80	90
0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Left mouse click on a check box to toggle the alarm display state. Left click on the All button to toggle all check boxes. Left click on the numbered button (1, 2, 3, etc.) to the left of a horizontal row to toggle all the check boxes in a horizontal row. Left click on the numbered button (0, 10, 20, etc.) at the top of a row of vertical check boxes to toggle all the check boxes in a vertical row.

A check mark in the box indicates the alarm group is selected.

Left mouse click OK to save changes. Left mouse click Cancel to exit the display without saving changes.

Video Outputs

The total number of video outputs allowed in a MAXPRO-Net system is 999.

Keyboard

Keyboard access to each video output device is configurable through entries in the Channel Access panel, each of the 99 keyboards may be given access by selecting its corresponding field.

All	0	10	20	30	40	50	60	70	80	90
0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Left mouse click on a check box to toggle the channel access state. Left click on the All button to toggle all check boxes. Left click on the numbered button (1, 2, 3, etc.) to the left of a horizontal row to toggle all the check boxes in a horizontal row. Left click on the numbered button (0, 10, 20, etc.) at the top of a row of vertical check boxes to toggle all the check boxes in a vertical row.

A check mark in the box indicates the keyboard has access to the video output device.

Left mouse click OK to save changes. Left mouse click Cancel to exit the display without saving changes.

Macro Flags

This field allows for definition of the default cold boot state of the macro flags for the current video output device.

Left mouse click on a check box to toggle its state. Left click on the All button to toggle the state of all macro flags. A check mark in the box indicates the macro flag is set TRUE. When the desired macro flags are set, left mouse click on the OK button. To exit the dialog box without making changes, left mouse click on the Cancel button.

All	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION 5: SEQUENCE TABLES

5.1 INTRODUCTION

Sequence tables store arrays of automatic camera selections. These sequences may be run on any output video channel. The sequences may also be used as index/lookup tables for macro programming.

A total of 999 separate scan sequences can be created in the system, each of which can contain ninety-nine (99) entries.

5.2 DEFINING SEQUENCES

Selection of the **Sequence Tables** tab opens the file for defining sequences. The details for each field in the file are described below.

SEQ	TYPE	SOURCE GROUP	DESCRIPTION TEXT	SEQ LOCKED	DWELL / 00	01	02	03	04	05	06	07	08	09	10	11
1	Index	0	PTZs TO PARK/HOME	No	0	3124	3125	3130	3132	3139	3140	3144	3145	3148	3149	3150
2	Index	0	STEVEG/PREVENT BIT	No	0	1	1	1	1	1	1	1	1	1	0	0
3	Scan	0	2v00 06/03/2000	No	1	1	0	0	0	0	0	0	0	0	0	0
4	Scan	0	LOGICALS @ NDX 100	No	1	1	0	0	0	0	0	0	0	0	0	0
5	Scan	0		No	0	0	0	0	0	0	0	0	0	0	0	0
6	Index	0	ALARM STACK PRI 1	No	0	0	0	0	0	0	0	0	0	0	0	0
7	Index	0	ALARM STACK PRI 2	No	0	0	0	0	0	0	0	0	0	0	0	0
8	Index	0	ALARM STACK PRI 3	No	0	0	0	0	0	0	0	0	0	0	0	0
9	Scan	0		No	1	1	0	0	0	0	0	0	0	0	0	0
10	Index	0	STANDBY PREF	No	0	0	0	0	0	0	0	0	0	0	0	0
11	Index	0	'A' SEL PRIOR ALM	No	0	0	0	0	0	0	0	0	0	0	0	0
12	Index	0	UNDO STORAGE	No	0	1	1	1	1	1	1	1	1	1	1	1
13	Index	0	TABLE TYPE SEL/MON	No	0	0	0	0	0	0	0	0	0	0	0	0
14	Index	0	POST VCRS	No	0	961	962	963	964	965	966	967	968	0	0	0
15	Index	0	ALARM MONITORS	No	0	2	0	0	0	0	0	0	0	0	0	0
16	Index	0	ALTERNATE STATUS	No	0	0	0	0	0	0	0	0	0	0	0	0
17	Index	0	VCR ALARM STACK 1	No	0	0	0	0	0	0	0	0	0	0	0	0
18	Index	0	VCR ALARM STACK 2	No	0	0	0	0	0	0	0	0	0	0	0	0
19	Index	0	STBY VCR USGE CODE	No	0	0	0	0	0	0	0	0	0	0	0	0
20	Index	0	STBY VCR USGE STK	No	0	0	0	0	0	0	0	0	0	0	0	0
21	Index	0	PTZs TO PARK/HOME	No	0	3124	3125	3130	3132	3139	3140	3144	3145	3148	3149	3150
22	Index	0	STEVEG/PREVENT BIT	No	0	1	1	1	1	1	1	1	1	1	0	0

Sequence Tables	
SEQ	This field serves as a reference number/identifier for the sequence table; it is not a changeable field.
Type	<p>There are three kinds of sequence types available:</p> <ul style="list-style-type: none"> • Scan - During a SCAN sequence operation, camera selection entries are wrapped around when the end of the scan sequence is reached. This mode of operation continues until the scan sequence is halted. • Tour - During a TOUR sequence, the scan sequence is stepped through only once. • Index - When INDEX is selected for this field, it indicates that the table is used to hold information for complex macro programming.
Source Group	<p>Each Scan sequence or Tour sequence may be allocated a source group number, this allows the system to control which video output channels have access to which scan sequences. Source groups are useful for partitioning access for specific operators.</p> <p>Note: The default source group is 0, the range of allowable source groups is 0 – 99.</p>
Description Text	This is an 18-character description used to identify the scan sequence. It is displayed on a monitor (or other video output channel with text insertion) whenever the scan sequence is selected.
Sequence Locked	This field provides for control of MAXPRO-Net run-time editing of the scan sequence. If Yes is entered in this field, then editing from keyboards is disabled, the default value is No (editing allowed).
Dwell / 00	<p>When the sequence type is Scan or Tour, this field defines the dwell time, in seconds, each camera will be displayed before automatically advancing to the next camera. Valid dwell periods are 1 – 99 seconds. If the sequence type is defined as Index, then this field becomes table position 0. The range of entry values is 0 – 9999.</p>
01 to 99	<p>When the sequence type is Scan or Tour, these fields define which cameras will be automatically displayed. Valid camera numbers are 1 – 9999.</p> <p>If the sequence type is defined as Index, then these fields are available for data entry/storage. The range of entry values is 0 – 9999.</p> <p>Note:</p> <p>You can shift the cell data of the SetMax columns to left or right. If you select any cell (in columns starting 01 to 99 under the Sequence table tab) and press Alt+Insert, then all data in the following cells of the row shifts by one column right.</p> <p>And, if you select any cell (in columns starting 01 to 99 under the Sequence table tab) and press Alt+Delete, then all data in the following cells of the row shifts by one column left.</p>

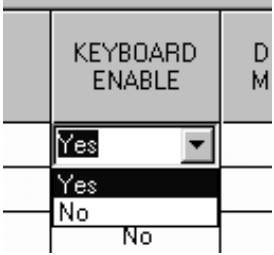
SECTION 6: CCTV KEYBOARDS

6.1 DEFINING CCTV KEYBOARDS

Selection of the **CCTV Keyboards** tab allows the user to edit the properties for each CCTV Keyboard. The details for each property are described below.

KB ID	DESCRIPTION	KEYBOARD ENABLE	DEFAULT MONITOR	DEFAULT OPERATOR	LCD MODE	AUDIBLE STATUS	POST EVENT MACRO	POST EVENT FLAGS
1	OP1 KB	Yes	1	1	No LCD Support			
2	OP2 KB	Yes	2	2	No LCD Support			
3	OP3 KB	Yes	3	3	No LCD Support			
4	OP4 KB	Yes	4	4	No LCD Support			
5	OP5 KB	Yes	5	5	No LCD Support			
6	OP6 KB	Yes	6	6	No LCD Support			
7	OP7 KB	Yes	7	7	No LCD Support			
8	OP8 KB	Yes	8	8	No LCD Support			
9	OP9 KB	Yes	9	9	No LCD Support			
10	OP10 KB	Yes	10	10	No LCD Support			
11	OP11 KB	Yes	11	11	No LCD Support			
12	OP12 KB	Yes	12	12	No LCD Support			
13	OP13 KB	Yes	13	13	No LCD Support			
14	OP14 KB	Yes	14	14	No LCD Support			
15	OP15 KB	Yes	15	15	No LCD Support			
16	OP16 KB	Yes	16	16	No LCD Support			
17	OP17 KB	Yes	17	17	No LCD Support			
18	OP18 KB	Yes	18	18	No LCD Support			
19	OP19 KB	Yes	19	19	No LCD Support			
20	OP20 KB	Yes	20	20	No LCD Support			
21	OP21 KB	Yes	21	21	No LCD Support			
22	OP22 KB	Yes	22	22	No LCD Support			

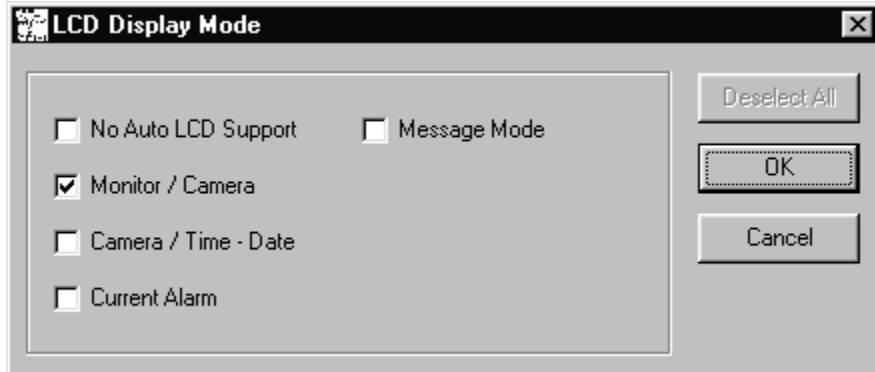
CCTV Keyboards	
KB ID	<p>Every keyboard in the system must have a unique ID number in the range 1 – 99. The Keyboard ID field is for reference only and is NOT a changeable field.</p> <p>Note: Keyboard ID 100 represents the system keyboard. By default this keyboard can access and control all monitors. It can be signed off if not required.</p>
Description	<p>This is an 18-character description used to identify the keyboard. It is displayed on the currently selected video output device if the current operator is not selected for display (ie., the operator has not logged on to the keyboard).</p> <p>Enter an 18-character description in the field and press Enter on the keyboard.</p> <p>Note: The Operator's name is enabled for display from the keyboard operator's table.</p>

CCTV Keyboards	
Keyboard Enable	<p>To enable a keyboard to operate the system select YES from the list box in the Keyboard Enable field. Selecting NO disables the keyboard, but will leave all other configuration details for that keyboard intact so it can be enabled again at a later date.</p> <p>The selection can also be made by typing Y for yes or N for no, then pressing Enter on the keyboard.</p> 
Default Monitor	<p>This field allows definition of the selected monitor when the MAXPRO-Net system is first powered up. This means the keyboard can immediately select a video input device for display without first having to select a monitor. Valid default monitor values are 1 – 999. A value of 0 means no default monitor selection has been made. Enter a value in the field and press Enter on the keyboard.</p>
Default Operator	<p>This field specifies which operator number is automatically logged onto the keyboard when the MAXPRO-Net system is first powered up. Valid values are 1 – 99. A value of 0 means no default operator has been selected for this keyboard, and in this case operators would have to manually sign on before using the keyboard. Enter the desired value in the field and press Enter on the keyboard.</p>

CCTV Keyboards

LCD Mode

Selecting the LCD MODE field allows for configuration of the LCD display mode required for this keyboard. Left mouse click on a selection field to select that mode and clear the other selections. When the box to the left of the selection contains a check mark, the mode is selected. The possible selections are described below.



- No Auto LCD support – the MAXPRO-Net system will not automatically send text to the keyboard LCD.
- Monitor / Camera – the video output device description text, and the video input channel device description are displayed on the LCD.
- Camera / Time–Date – the video input device description and the current time and date are displayed on the LCD.
- Current Alarm – the active alarm description as displayed on the currently selected video output device is displayed on the LCD.
- Message Mode – the message prompt and mode information lines (eg. Warning messages, scanning, setting views etc) are displayed on the LCD.

After selecting the desired mode, left mouse click on the OK button. To exit the dialog box without changing the current mode, left mouse click on Cancel.

CCTV Keyboards

Audible Status

Selecting the Audible Status field allows for configuration of audible keyboard prompts. Left mouse click on the box to the left of the selection to toggle its status. A check mark in the box to the left of the prompt indicates the option is selected.



- Key Click – the keyboard beeps in response to every key press.
 - Joystick Click – the keyboard beeps in response to any joystick movement.
 - Warning Prompt - the keyboard buzzes in response to warning messages (eg. trying to pan / tilt a fixed camera).
 - Alarm Prompt – The keyboard will beep continuously in response to an alarm message, until the alarm is cleared.
 - Deadman Tone – keyboard will beep if keyboard is not used for specific amount of time as defined by keyboard operator section.
- To deselect all audible keyboard prompts, left mouse click on the Deselect All button, then left click on OK.
- When done selecting audible prompts, left mouse click on the OK button.
- To exit the field without changing the current settings, left mouse click on the Cancel button.

Post Event Macro

This field defines the macro sequence that will be executed following keyboard activity of the type specified in the Post Event Flags.

CCTV Keyboards

Post Event Flags

Selecting the POST EVENT FLAGS field allows for selecting the type of events that will trigger the POST EVENT MACRO. Left mouse click on a selection field to toggle selecting and deselecting an event that will trigger the Post Event Macro. The possible events are described below.



- Monitor Select – the post event macro is executed every time a monitor is selected.
- Source Select – the post event macro is executed every time a video input device is selected.
- Source Changed – the post event macro is executed every time a different video input device is selected on the keyboard's current monitor.
- PTZ Control – the post event macro is executed every time the keyboard is used for control of a pan / tilt camera.
- VCR Control – the post event macro is executed every time the keyboard is used for control of a VCR.
- All keys – the post event macro is executed for every key press on the keyboard.

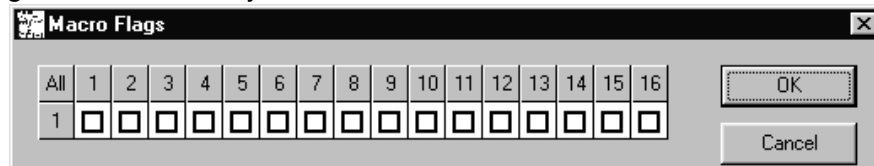
To select or deselect all events, left mouse click on the Select All or Deselect All button.

When done selecting events, left mouse click on the OK button.

To exit the field without changing the current selections, left mouse click on the Cancel button.

Device Macro Flags

This field allows for definition of the default cold boot state of the macro flags for the current keyboard.



These macro flags can be set, cleared and tested from within the macro programming environment. They are not normally used and would usually be left blank. Left mouse click on any field to toggle its state. A checked field indicates the macro flag is set TRUE. Left mouse click on the 'All' button to toggle the state of all macro flags. When done setting the macro flags, left mouse click on OK. To leave the macro flags dialog box with making any changes, left mouse click on Cancel.

Notes:

SECTION 7: INTERCEPT KEYBOARD KEYS

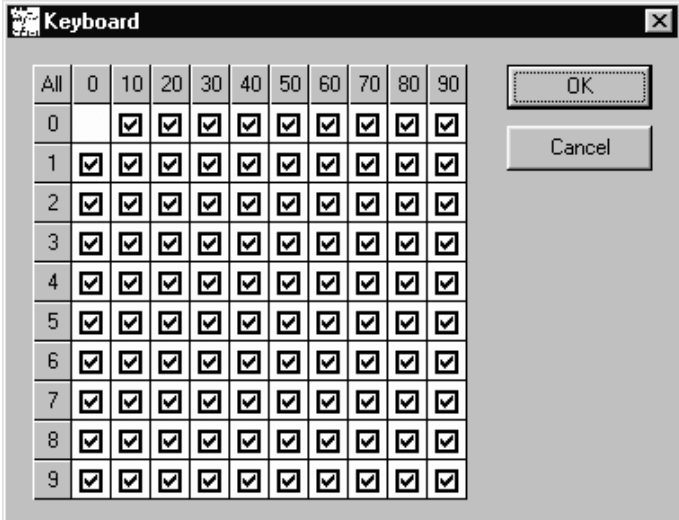
7.1 EDITING KEYBOARD KEYS

Selection of the **Intercept Keyboard Keys** tab allows the user to edit all the keyboard keys. Any key press can be intercepted and reprogrammed to execute macro sequences or mimic other keys. The details of each of the properties are described below.

The screenshot shows the 'Intercept Keyboard Keys' configuration window. The window title is 'Setmax for MAXPRO-Net [V03_10018_SG - Security]'. The server IP is 127.0.0.1. The 'Intercept Keyboard Keys' tab is selected, showing a table with columns: REF, KEY CODE, DESCRIPTION, KEYBOARD, KEY REPLACEMENT MACRO, and KEY RELEASE MACRO. The table contains 22 rows of configuration data.

REF	KEY CODE	DESCRIPTION	KEYBOARD	KEY REPLACEMENT MACRO	KEY RELEASE MACRO
1	1	MUX		\$@M<>0{%1128.%876}	
2	2	FULL SCR		\$M@M==R941{%1254.%1252}	
3	3	QUAD SCR		\$M@M==R941{%1265.%1252}	
4	4	MENU		?.%876	
5	5	Pause		P	
6	6	Insert		I	
7	7	Delete		L	
8	8	Sec Cage		[<30LOG-CAM-GRP>]M@M=T5	
9	9	Sec Armored Car		[<28LOG-CAM-GRP>]M@M=T5	
10	10	Sec Elv Lobby		[<29LOG-CAM-GRP>]M@M=T5	
11	11	ALARM ACK		\$@M<>0{%1207.%876}[X6=F]	
12	12	ALARM CLEAR		\$@M<>0{%1214.%876}	
13	13	SCAN		\$@M<>0{S.%876}	
14	14	HALT		\$@M<>0{H.%876}	
15	15	UNUSED			
16	16	UNUSED			
17	17	UNUSED			
18	18	Sec Money Route		[<31LOG-CAM-GRP>]M@M=T5	
19	19	Sec BOH		[<32LOG-CAM-GRP>]M@M=T5	
20	20	Sec Escalator		[<33LOG-CAM-GRP>]M@M=T5	
21	21	UNUSED			
22	22	UNUSED			

Ready. 3/10/2005 3:54 PM Setmax for MAXPRO-Net connected to IP : 127.0.0.1 and Port : 15651

Intercept Keyboard Keys	
REF	The intercept keyboard keys reference number is purely a reference number used to distinguish one key from another. The intercept keyboard keys reference number field is NOT a changeable field
Key Code	In this field enter the key code of the key that is to be intercepted. For a complete list of keyboard key codes, please refer to Appendix A located in the Commissioning Manual. If the key code entered in this field has a default description, it is automatically displayed in the description field. Enter the desired key code, then press Enter on the keyboard.
Description	If the key code field has been left blank, the key to be intercepted can be selected by its description. For example, entering <CAM> in the description field will automatically insert 73 in the key code field. The description can then be modified to indicate the new key function required. The description is used purely for reference and has no effect on system operation. Enter the desired description and press Enter on the keyboard.
Keyboard	<p>The keyboard ID number to which the key intercept applies is selected by clicking on the keyboard field. Left mouse click on any of the fields to toggle the selected keyboard. For example to select keyboard 11, the box in column 10, row 1 should be checked (see shaded check box in the illustration below).</p> <p>When a box contains a check mark it indicates the key intercept applies to</p>  <p>that keyboard. To select or deselect all keyboards, left mouse click on the All button.</p> <p>When all desired keyboards are selected and deselected, left mouse click on the OK button. To exit the keyboard dialog box with making any changes, left mouse click on the Cancel button</p>
Key Replacement Macro	<p>When the specified key press on the selected keyboards is detected, the KEY REPLACEMENT MACRO is executed. This can be used to perform automatic system control functions.</p> <p>Please refer to the MACRO GUIDE in the Operator's Manual for comprehensive details of macro functionality.</p> <p>Enter the desired key replacement macro and press Enter on the keyboard.</p>

Intercept Keyboard Keys

Key Release Macro

When the specified key on the selected keyboards is released, the KEY RELEASE MACRO is executed. This can be used to perform automatic system control functions.

Please refer to the MACRO GUIDE for comprehensive details of macro functionality.

Enter the desired key release macro and press Enter on the keyboard.

Notes:

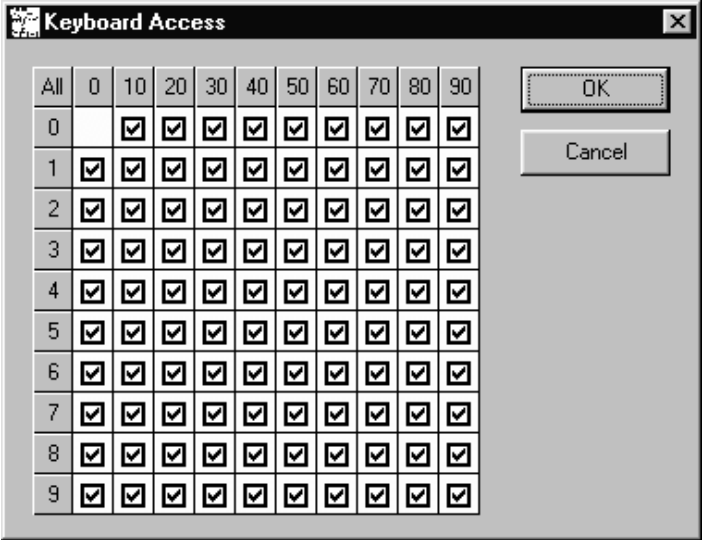
SECTION 8: KEYBOARD OPERATORS

8.1 DEFINING KEYBOARD OPERATOR PROPERTIES

In large video systems it may be necessary to have several operator access levels. Selection of the **Keyboard Operators** tab allows for direct editing of all the properties for each system operator. The details of each of the properties are described below.

The screenshot shows the 'Setmax for MAXPRO-Net' software interface. The 'Keyboard Operators' tab is selected in the top menu. Below the menu is a table with the following columns: OPERATOR NUMBER, OPERATOR NAME, PIN NUMBER, KEYBOARD ACCESS, OPERATOR PRIORITY, KEYBOARD TIMEOUT PERIOD, AUTO SIGNED OFF PERIOD, SOURCE GROUP ACCESS, ALARM GROUP ACCESS, OPERATOR PRIVILEGES, and SIGN ON MACRO. The table contains two rows of data: Operator 1 (DEFAULT OPERATOR) and Operator 2 (SYSTEM KB OPERATOR). Both operators have a PIN number of 'xxxx', a priority of 1, and a timeout period of 0. Operators 3 through 23 are currently empty.

OPERATOR NUMBER	OPERATOR NAME	PIN NUMBER	KEYBOARD ACCESS	OPERATOR PRIORITY	KEYBOARD TIMEOUT PERIOD	AUTO SIGNED OFF PERIOD	SOURCE GROUP ACCESS	ALARM GROUP ACCESS	OPERATOR PRIVILEGES	SIGN ON MACRO
1	DEFAULT OPERATOR	xxxx		1	0	0				
2	SYSTEM KB OPERATOR	xxxx		1	0	0				
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

Keyboard Operators	
Operator Number	The Operator Number is purely a reference number used to distinguish one operator or group of operators from another. The operator number field is NOT a changeable field.
Operator Name	This is an 18-character description used to identify the current operator. It is displayed on a monitor (or other video output channel with text insertion) whenever that operator uses a keyboard. Enter up to an 18-character description and press Enter on the keyboard. Note: The 'Display Name' in the OPERATOR PRIVILEGES field must be enabled for the name to be displayed. Otherwise the description of the keyboard is displayed.
Pin Number	If this field is left blank, the operator can sign on to control the system without entering a pin number. However, if there is a requirement to restrict operator access from certain system functions then a pin code of up to 4 digits can be entered in this field. If applicable, enter a 4-digit pin number and press Enter on the keyboard.
Keyboard Access	<p>The keyboards to which the operator has access are selected by left mouse clicking the Keyboard Access field. Left mouse click on the check box to select or deselect a keyboard. If the box contains a check mark, the keyboard is selected. To select or deselect all keyboards, left mouse click on the All button.</p> <div style="text-align: center;">  </div> <p>When all desired keyboards are selected (or deselected), left mouse click on the OK button. If no changes are desired, left mouse click on Cancel to exit the dialog box.</p>

Keyboard Operators

Operator Priority	<p>The Operator Priority field is used to determine the priority of one operator over another. Operator priorities are used by the system if more than one operator is trying to select a monitor, control a camera or perform some other system function such as controlling a VCR. Valid values for this field are 0 – 99. 0 indicates exclusive access. 1 indicates highest priority, 99 lowest priority. Priority conflicts are detailed in the table below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Priority Conflict</th> <th style="width: 50%; text-align: center;">Operation Outcome</th> </tr> </thead> <tbody> <tr> <td>Higher versus lower</td> <td>The higher priority operator displaces the lower priority operator from the monitor</td> </tr> <tr> <td>Same priority levels</td> <td>Both operators have equal and concurrent access to the monitor.</td> </tr> <tr> <td>Exclusive versus any other</td> <td>The exclusive priority operator always displaces any other priority from the monitor except for another exclusive priority.</td> </tr> <tr> <td>Exclusive versus exclusive</td> <td>The first exclusive priority operator will prevent the other from accessing the monitor on a first in, first served basis.</td> </tr> </tbody> </table> <p>The above rules also apply when controlling a device such as a PTZ camera or VCR, even when operators have selected the device to different monitors. Priorities for device control are only asserted when a keyboard action (e.g. Pan left) occurs, not when the device is selected for display. Enter the desired value in the field and press Enter on the keyboard.</p>		Priority Conflict	Operation Outcome	Higher versus lower	The higher priority operator displaces the lower priority operator from the monitor	Same priority levels	Both operators have equal and concurrent access to the monitor.	Exclusive versus any other	The exclusive priority operator always displaces any other priority from the monitor except for another exclusive priority.	Exclusive versus exclusive	The first exclusive priority operator will prevent the other from accessing the monitor on a first in, first served basis.
Priority Conflict	Operation Outcome											
Higher versus lower	The higher priority operator displaces the lower priority operator from the monitor											
Same priority levels	Both operators have equal and concurrent access to the monitor.											
Exclusive versus any other	The exclusive priority operator always displaces any other priority from the monitor except for another exclusive priority.											
Exclusive versus exclusive	The first exclusive priority operator will prevent the other from accessing the monitor on a first in, first served basis.											
Keyboard Timeout Period	<p>The number in this field indicates the keyboard timeout period in seconds. A different timeout period can be defined for each operator. When an operator hasn't used a keyboard for this period, the keyboard is deselected from its current monitor. This allows other lower priority operators' access to the monitor. Valid entries are 1 to 255 seconds. A 0 in this field disables the keyboard timeout period. Enter the desired timeout period and press Enter on the keyboard.</p>											
Auto Sign-Off Period	<p>A number in this field indicates the operator sign-off period in minutes. If a keyboard has not been used for this time period, the operator is automatically signed off. Valid entries are 1 to 99 minutes. A zero (0) in this field disables the auto sign-off period. Enter the desired sign-off period and press Enter on the keyboard.</p>											

Keyboard Operators

Source Group Access

Each operator may be granted access to any of the video input source groups. This field is used to restrict operators from viewing video input devices in selected source groups.

All	0	10	20	30	40	50	60	70	80	90
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Left mouse click on the check box to select or deselect an operator source group access. To select all or deselect all source groups, left mouse click on the All button. If the box contains a check mark it indicates the operator has access to the source group.

When the source groups are selected or deselected as desired, left mouse click on the OK button. To exit the dialog box without making any changes, left mouse click on the Cancel button.

Keyboard Operators

Alarm Group Access

This field allows for the selection of the alarm groups the operator has access to. If the box is checked, the operator can clear alarms in the specified alarm group.

All	0	10	20	30	40	50	60	70	80	90
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

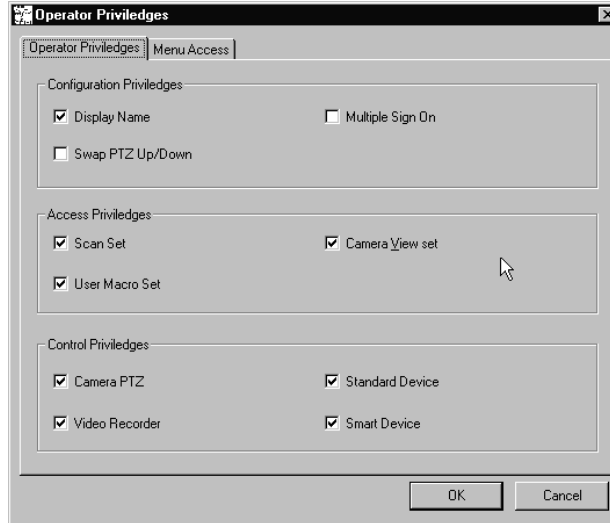
To select or deselect all Alarm Groups, left mouse click on the All button. Left mouse click on any of the check boxes to toggle the selected alarm group access. For example to give an operator access to alarm group 79, left mouse click on the check box in column 70, row 9 until there is a check mark in the box.

When done selecting or deselecting, left mouse click on the OK button. To exit the dialog box without making any changes, left mouse click on the Cancel button.

Keyboard Operators

Operator Privileges

Selecting this field brings up a Display Icon. Left mouse click on the Display Icon to access the Operator Privileges dialog box. The available operator privileges are described below. Left mouse click on the checkbox beside the privilege to select and deselect the privilege. When a check mark is displayed in the check box, the privilege is selected.



Configuration Privileges

- Display Name - When enabled (check box checked) displays the Operator Name on the currently selected monitor.
- Swap PTZ Up/Down – When enabled this reverses the up/down control of a pan/tilt camera when it is being used by this operator.
- Multiple Sign On – When enabled allows the current operator to be signed on to more than one keyboard at a time.

Access Privileges

- Scan Set – When enabled allows the operator to edit scan sequences.
- User Macro Set – Allows the operator to create user keyboard macros.
- Camera View Set – Allows the operator to set PTZ camera views.

Control Privileges

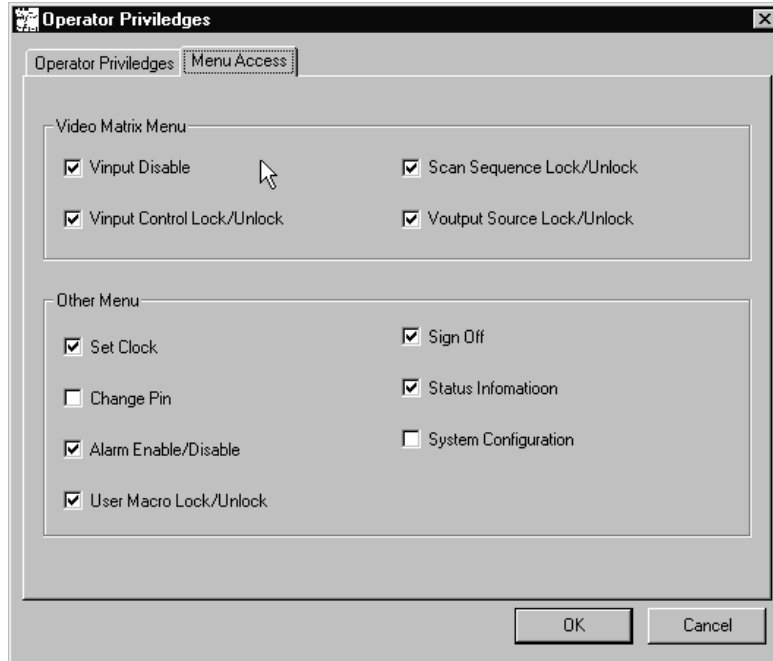
This section allows the configuration of the operator privileges for controlling system input and output devices.

- Camera PTZ – allows the operator to control camera PTZ functions.
- Video Recorder – allows the operator to control VCR functions.
- Standard Device Functions – allows the operator to control standard device (e.g. Freeze frame) functions.
- Smart Device Functions - allows the operator to control smart device (e.g. multiplexer) functions.

Keyboard Operators

Operator Privileges Menu Access Tab

To open the Menu Access dialog box, left mouse click on the Menu Access Tab in the Operator Privileges Dialog Box. Left mouse click on the check box beside the privilege to select and deselect the privilege. When the box to the left of the privilege contains a check mark, the privilege is enabled.



Video Matrix Menu

This dialog box allows configuration of operator access to video input and output device options that can be altered from the system menu.

- Vinput Disable – when enabled allows the operator to enable or disable video input devices. A disabled video input device cannot be displayed on any video output device by any operator.
- Vinput Control Lock/Unlock – when enabled allows the operator to lock or unlock controls of video input devices. A locked video input device cannot be controlled by any operator.
- Scan Sequence Lock/Unlock – when enabled allows the operator to lock or unlock scan sequences. When locked MAXPRO-Net run time editing of scan sequences is disabled.
- Voutput Source Lock/Unlock – when enabled allows the operator to lock or unlock video outputs. A locked video output device cannot have any other video input device selected to it for display by any operator.

Keyboard Operators

	<p>Other Menu This dialog box allows for configuration of operator access to other system menu options.</p> <ul style="list-style-type: none"> • Set Clock – when enabled allows the operator to set the system time and date. • Change Pin – when enabled allows the operator to change the PIN of all system operators. • Alarm Enable Disable– when enabled allows the operator to enable or disable system alarms. • User Macro Lock / Unlock – when enabled allows the operator to lock or unlock user macros. When locked MAXPRO-Net run time editing of user macros is disabled. • Sign Off – when enabled allows the operator to sign off from a keyboard. • Status Information – when enabled allows the operator to change the current system status. • System Configuration – when enabled allows the operator to run the Windows SetMax configuration editor, save the current system environment as the default settings, or exit to Windows. <p>When all operator privileges are set, left mouse click on the OK button. To exit the Operator Privileges dialog box without making any changes, left mouse click on the Cancel button.</p>
Sign On Macro	<p>The SIGN ON MACRO is executed whenever the operator first signs on to a keyboard. Please refer to the MACRO GUIDE for comprehensive details of macro functionality. Enter the desired macro and press Enter on the keyboard.</p>
Sign Off Macro	<p>The SIGN OFF MACRO is executed whenever the operator signs off from a keyboard. Please refer to the MACRO GUIDE for comprehensive details of macro functionality. Enter the desired macro and press Enter on the keyboard.</p>

SECTION 9: EXTERNAL ALARM INPUTS

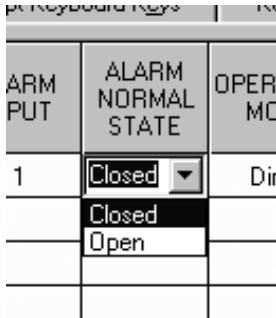
9.1 DEFINING EXTERNAL ALARM INPUTS

Selection of the **External Alarm Inputs** tab allows for direct editing of all the properties for each alarm input. The details of each of the properties are described below.

The screenshot shows the 'External Alarm Inputs' tab in the Setmax software. The table below represents the data visible in the interface:

ALARM	ALARM GROUP	DESCRIPTION	SUBBRACK ID	SUBBRACK SLOT	CAMERA NUMBER	ALARM INPUT	ALARM NORMAL STATE	OPERATING MODE	ALARM DISABLE	NETWORK ALARM	ALARM START MACRO
2	1	Convention BOH	1	15	0	2	Closed	Direct	No	LINK	[@76=@H]%1070
3	1	Convention BOH	1	15	0	3	Closed	Direct	No	LINK	[@76=@H]%1070
4	1	Convention BOH	1	15	0	4	Closed	Direct	No	LINK	[@76=@H]%1070
5	1	Convention BOH	1	15	0	5	Closed	Direct	No	LINK	[@76=@H]%1070
6	1	Convention BOH	1	15	0	6	Closed	Direct	No	LINK	[@76=@H]%1070
7	1	Convention BOH	1	15	0	7	Closed	Direct	No	LINK	[@76=@H]%1070
8	1	Token BOH	1	15	0	8	Open	Direct	No	LINK	[@76=@H]%1070
9	1	Convention BOH	1	15	0	1	Closed	Direct	No	LINK	[@76=@H]%1070
10	1	Convention BOH	1	15	0	2	Closed	Direct	No	LINK	[@76=@H]%1070
11	1	Convention BOH	1	15	0	3	Closed	Direct	No	LINK	[@76=@H]%1070
12	1	Convention BOH	1	15	0	4	Closed	Direct	No	LINK	[@76=@H]%1070
13	1	Convention BOH	1	15	0	5	Closed	Direct	No	LINK	[@76=@H]%1070
14	1	Convention BOH	1	15	0	6	Closed	Direct	No	LINK	[@76=@H]%1070
15	1	Convention BOH	1	15	0	7	Closed	Direct	No	LINK	[@76=@H]%1070
16	1	Token BOH	1	15	0	8	Open	Direct	No	LINK	[@76=@H]%1070
17	0		0	0	0	0	Open	Direct	No		
18	0		0	0	0	0	Open	Direct	No		
19	0		0	0	0	0	Open	Direct	No		
20	0		0	0	0	0	Open	Direct	No		
21	0		0	0	0	0	Open	Direct	No		
22	0		0	0	0	0	Open	Direct	No		
23	0		0	0	0	7	Open	Latched	No		

External Alarm Inputs	
Alarm	The Alarm number is purely a reference number used to distinguish one alarm input from another. The alarm number field is NOT a changeable field.
Alarm Group	The alarm group number is used for targeting alarm messages onto video output devices. When an alarm is detected, the alarm group number is used to determine which video output device will display the associated alarm message text. Valid values are 0–99. Enter the desired alarm group number and press Enter on the keyboard. Note: Alarm groups 1 – 99 can display alarm message text onto video output channels. Alarm group 0 is always a non-displayable alarm group. Alarms in this group are not handled by the alarm stack manager.
Description	This is an 18-character description used to identify the alarm input. It is displayed as the alarm message text, on every video output device that has been selected to display the associated alarm group. Enter up to an 18-character description and press Enter on the keyboard.

External Alarm Inputs													
Subrack ID	<p>Specifies the subrack ID number where the alarm input module resides. The valid range is 1 – 99. If a high level or mimic panel alarm is being used, the number is prefixed with an “H”. If a keyboard alarm is being used, the number is prefixed with a “K”.</p> <p>Enter the Subrack ID and press Enter on the keyboard.</p> <p>For VideoBlox subrack, this ID represents the ‘V’ + communication port number to which the VideoBlox alarm concentrator AVBPIT is connected. Valid range: ‘V’ + maximum communication ports.</p>												
Subrack Slot	<p>This field defines the slot number within the control subrack where the alarm input module resides. Valid slot numbers are 1 – 32 for I/O and combination video/I/O subracks, and 15 – 17 for HD Series subracks.</p> <p>Enter the subrack slot number and press Enter on the keyboard.</p> <p>For VideoBlox subrack, this number represents the alarm concentrator AVBPIT number. Valid range: 0 to 255.</p>												
Camera Number	<p>If the alarm input is located at a remote PTZ site, then the camera number of that remote PTZ must be specified. Entering data in this field will clear the Subrack ID and Subrack Slot fields. Valid camera numbers are 1 – 9999. This field should be set to zero (0) when an alarm input module in a subrack is used.</p> <p>Enter a camera number or zero (0) and press Enter on the keyboard.</p>												
Alarm Input	<p>There are 8 separate alarm inputs for every subrack slot defined as an alarm input slot. The actual alarm input used must be specified.</p> <p>Note: If an HD system is being used, alarm inputs are available on the MX4248 module. The pseudo slot and alarm input numbers that have to be entered into the external alarm inputs table are as follows:</p> <table border="1"> <thead> <tr> <th>Alarm Inputs HMX4248</th> <th>Alarm Inputs (Setmax)</th> <th>Subrack Slot (Setmax)</th> </tr> </thead> <tbody> <tr> <td>1 – 8</td> <td>1 – 8</td> <td>15</td> </tr> <tr> <td>9 – 16</td> <td>1 – 8</td> <td>16</td> </tr> <tr> <td>17 – 24</td> <td>1 – 8</td> <td>17</td> </tr> </tbody> </table> <p>Enter the alarm input number and press Enter on the keyboard.</p> <p>For VideoBlox subrack, this represents the physical alarm input slot number from AVBPIT alarm concentrator. Valid range: 1 to 255.</p>	Alarm Inputs HMX4248	Alarm Inputs (Setmax)	Subrack Slot (Setmax)	1 – 8	1 – 8	15	9 – 16	1 – 8	16	17 – 24	1 – 8	17
Alarm Inputs HMX4248	Alarm Inputs (Setmax)	Subrack Slot (Setmax)											
1 – 8	1 – 8	15											
9 – 16	1 – 8	16											
17 – 24	1 – 8	17											
Alarm Normal State	<p>This field defines the normal (i.e. non-active) state of each alarm input. It can be set to either open or closed. You may either select the required alarm normal state from the list box as shown below or by typing in either ‘O’ for open or ‘C’ for closed.</p>  <p>When the desired state is displayed in the field, press Enter on the keyboard.</p>												

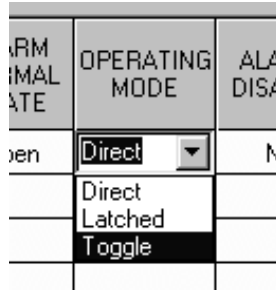
External Alarm Inputs

Operating Mode

Selecting the Operating Mode field displays a submenu. Each alarm input can operate in one of 3 different modes, direct, latched, or toggle. Each mode is described below.

- Direct - The alarm condition activates or de-activates when it physically changes state, or is set or cleared with macros.
- Latched – Once triggered the alarm will remain active until it is reset manually using the alarm clear key on the keyboard.
- Toggle – The first time the alarm is triggered it becomes active, the next time it is cleared.

You may either select the required operating mode from the list box as shown below or by typing in the first letter of the required option.



When the desired mode is highlighted in the list box or in the field, press Enter on the keyboard.

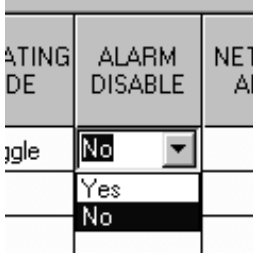
Alarm Disable

When the MAXPRO-Net system starts running, each alarm can be either enabled or disabled by default.

Yes – disables the alarm

No – enables the alarm

You may either select the required alarm disabled state from the list box as shown below or by typing in the first letter (N or Y) of the required option.



When the field contains the desired alarm state, press Enter on the keyboard.

Note: Any alarm can be enabled or disabled while the system is running by using the system menu, or by executing a preprogrammed macro sequence.

External Alarm Inputs

Network Alarm	<p>When the current alarm input is actually connected to another MAXPRO-Net system within a network configuration, the NETWORK ALARM field is used to specify the exact location and reference for the alarm input device.</p> <p>e.g. #03:A1234 - the actual alarm input resides on network node 3 and is defined on node 3 as alarm 1234.</p> <p> LINK - signifies that status changes of the current alarm input will be broadcast on the network.</p> <p>For more comprehensive details please refer to the NETWORKING section of the user's guide.</p> <p>Enter the location and reference for the alarm input (if applicable) and press Enter on the keyboard.</p>
Alarm Start Macro	<p>When an alarm condition is detected for an alarm input, the ALARM START MACRO is executed. This can be used to perform automatic system control functions.</p> <p>Please refer to the MACRO GUIDE for comprehensive details of macro functionality.</p> <p>Enter the desired macro number in the field and press Enter on the keyboard.</p>
Alarm Finish Macro	<p>When a detected alarm input returns to its normal state, the ALARM FINISH MACRO is executed.</p> <p>Please refer to the MACRO GUIDE for comprehensive details of macro functionality.</p> <p>Enter the desired macro number and press Enter on the keyboard.</p>

SECTION 10: AUXILIARY CONTROL OUTPUTS

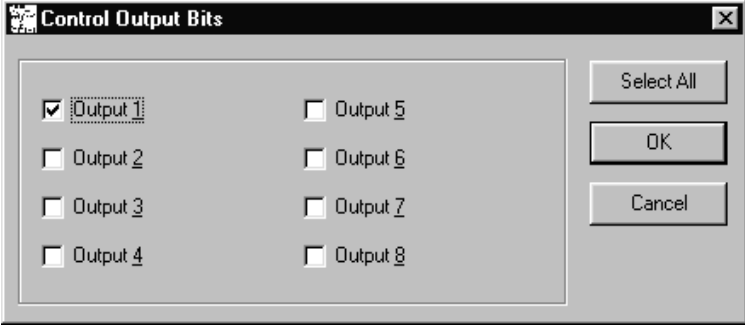
10.1 DEFINING AUXILIARY CONTROL OUTPUTS

Selection of the **Auxiliary Control Outputs** tab allows for direct editing of all the properties for each control output. The details of each of the properties are described below.

The screenshot shows the 'Setmax for MAXPRO-Net [V03_10018_SG - Security]' application window. The 'Auxiliary Control Outputs' tab is selected in the top menu. The main area displays a table with the following columns: CONTROL OUTPUT NUMBER, DESCRIPTION, SUBRACK ID, SUBRACK SLOT, REMOTE CAMERA NUMBER, OUTPUT BIT, NETWORK AUXILIARY OUTPUT, and OUTPUT DEFAULT STATE. The table contains 22 rows of data.

CONTROL OUTPUT NUMBER	DESCRIPTION	SUBRACK ID	SUBRACK SLOT	REMOTE CAMERA NUMBER	OUTPUT BIT	NETWORK AUXILIARY OUTPUT	OUTPUT DEFAULT STATE
1	SURV print key	0	0	0			Off
2	ALM SOUNDER SEC	0	0	0		#01:X0002	Off
3	SEC print key	0	0	0			Off
4	TAPE ANAL MASK	0	0	0			Off
5	TAPE ANAL MASK	0	0	0			Off
6	ALM SOUNDER SEC	1	1	0			Off
7	ALM SOUNDER SEC	1	1	0			Off
8	EXT ALARM	0	0	0			Off
9	ALARM DISPLAYED	0	0	0			Off
10	AUTO-RECORD FLG	0	0	0			Off
11	ALARM DISCONNECT	0	0	0			Off
12	SURV DOOR UNLOCK	0	0	0			Off
13	TAPE CHECK ACTIVE	0	0	0			Off
14	GARY DOOR UNLOCK	0	0	0			Off
15	surv MUX USE FLG	0	0	0			Off
16	sec MUX USE FLG	0	0	0			Off
17	COPY REVIEW MON 31	0	1	0			Off
18	COPY REVIEW MON 4	0	1	0			Off
19	ALARM DISPLAY Sec	0	0	0			Off
20		0	0	0			Off
21	B/W PRINT KBD1	0	1	0			Off
22	B/W PRINT KBD2	0	1	0			Off

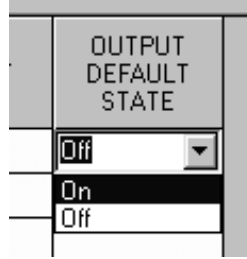
Auxiliary Control Outputs	
Control Output Number	The Control Output Number is purely a reference number used to distinguish one control output from another. The control output number field is NOT a changeable field.
Description	This is an 18-character description used to identify the control output. It is not used by MAXPRO-Net at all and it is purely for operator reference. Enter up to an 18-character description and press Enter on the keyboard.

Auxiliary Control Outputs	
Subrack ID	<p>Specifies the subrack ID number where the control output module resides. The valid range is 1 – 99. If a high level or mimic panel output is being used, the number is prefixed with an “H”. If a keyboard output is being used the number is prefixed with a “K”.</p> <p>Enter the subrack ID number and press Enter on the keyboard.</p> <p>For VideoBlox subrack, this represents the ‘V’ + communication port number to which the VideoBlox alarm concentrator AVBPIT is connected. Valid range: ‘V’ + maximum communication ports.</p>
Subrack Slot	<p>This field defines the slot number within the control subrack where the control output module resides. Valid slot numbers are 1 – 32 for I/O and combination video/I/O subracks, and 1 for HD Series subracks.</p> <p>Enter the slot number and press Enter on the keyboard.</p> <p>For VideoBlox subrack, this represents the physical control input slot number from AVBPIT alarm concentrator. Valid range: 1 to 255.</p>
Remote Camera Number	<p>If the control output is located at a remote PTZ site, then the camera number of that remote PTZ must be specified. Entering data in this field will clear the Subrack ID and Subrack Slot fields. Valid camera numbers are 1 – 9999. This field should be set to zero (0) when a control output module in a subrack is used.</p> <p>Enter the camera number (if applicable) or 0 in the field and press Enter on the keyboard.</p> <p>Note: This field is not applicable for VideoBlox subracks.</p>
Output Bit	<p>Selecting this field brings up a dialog box, which allows configuration of the separate output circuit (called output bits) being used.</p> <div style="text-align: center;">  </div> <p>Left mouse click on the check box (to the left of an output bit) to toggle its state. If the box to the left of the output bit contains a check mark, the bit is controlled by the Auxiliary Control Output. Each control output defined in SetMax can control 1 or more output bits. Left mouse click on the “Select All” button in the dialog box for all 8 output bits to be controlled by a single Auxiliary Control Output.</p>
Network Auxiliary Output	<p>When the current auxiliary control output is actually connected to another MAXPRO-Net system within a network configuration, the NETWORK AUXILIARY OUTPUT field is used to specify the exact location and reference for the Auxiliary Control Output.</p> <p>e.g. #03:X1234 - the actual output resides on network node 3 and is defined there as control output 1234.</p> <p> LINK - signifies that status changes of the current control output will be broadcast on the network.</p> <p>For more comprehensive details please refer to the NETWORKING section of the user’s guide.</p> <p>If applicable, enter the network location, and press Enter on the keyboard.</p>

Auxiliary Control Outputs

Output Default State

When the MAXPRO-Net system starts running, each control output can be set to On or Off by default. You may either select the required output default state from the list box as shown below or by typing in the required option.



When the desired state is displayed in the field, press Enter on the keyboard.

Notes:

SECTION 11: SYSTEM MACRO LIBRARY

11.1 DEFINING SYSTEM MACRO LIBRARY

Selection of the **System Macro Library** tab allows for direct editing of all user-defined System Macros. By default this table will be blank, as System Macros are not required for basic system operation. However, the power of the MAXPRO-Net system lies in the ability to customize system operation using these System Macros. Most system macros are initiated from other sources.

E.g: External Alarm Inputs -> Alarm start macro. The system macro library is an extended list of sequences that can be called as required from these other sources.

REF	DESCRIPTION	MACRO EXECUTION SEQUENCE
1	ZV00 NULL MACRO>>>	K
2	VARIABLE USAGE	
3	@1	[@99=74A@99=F]
4	@2	GENERAL PURPOSE SCRATCHPAD REGISTER
5	@3	GENERAL PURPOSE SCRATCHPAD REGISTER
6	@4	GENERAL PURPOSE SCRATCHPAD REGISTER
7	@5	GENERAL PURPOSE SCRATCHPAD REGISTER
8	@6	GENERAL PURPOSE SCRATCHPAD REGISTER
9	@7	GENERAL PURPOSE SCRATCHPAD REGISTER
10	@8	GENERAL PURPOSE SCRATCHPAD REGISTER
11	@9	GENERAL PURPOSE SCRATCHPAD REGISTER
12	@10	NUMBER OF STANDBY VCRS
13	@11	HOUR OF NEXT TAPE CHANGE SEQUENCE, POINTER TO BANK
14	@12	CURRENT VCR ALARM NUMBER
15	@13	CURRENT BANK POINTER
16	@14	RACK POINTER IN CURRENT BANK
17	@15	CURRENT VCR
18	@16	VCR POINTER IN CURRENT RACK
19	@17	CURRENT RACK FOR STANDBY TRANSFER
20	@18	CURRENT RACK FOR STOP/EJECT
21	@19	
22	@20	STANDBY VCR NUMBER AT STANDBY FAIL/RESTORE

Please refer to the MACRO GUIDE for comprehensive details of macro functionality.

System Macro Library	
Ref	The system macro library reference number is purely a reference number used to distinguish one system macro from another. The MAXPRO-Net system will CALL a system macro by its reference number. The System macro library reference number field is NOT a changeable field.
Description	The description text is used to label the system macros. It is not used by the system at all and is for reference only.
Macro Execution Sequence	This field contains the actual macro execution sequence. It contains the key press sequence or special macro commands required to perform the required function. It can also call other system macros if required. Please refer to the MACRO GUIDE for comprehensive details of macro functionality.

SECTION 12: SPECIAL PARAMETERS

12.1 DEFINING SPECIAL PARAMETERS

Selection of the **Special Parameters** tab allows for direct editing of all the special system parameters. These fields default to values that are satisfactory for most video system applications. The details of each of the properties are described below.

	Real-Time Clock Line	Video Source Description	Monitor / Keyboard Description	Mode Line	Message Line
Monitor - Normal	5	4	3	2	1
Monitor - Double	3	2	0	1	0
VCR / Other - Normal	1	2		3	
VCR / Other - Double	1	2		3	
Pretext - Normal	1	2	3	4	5
Pretext - Double	1	2	0	3	3

Pretext Status:
 Trunk STEAL Criteria:

Enable Alarm Stack:
 Stack Dwell:
 Forward NET Broadcasts:

Video Level Fail:
 Check Batch File:

Printer - Errorlog Reporting:
 MAXPRO-Net Language:

Network Node ID:
 Default Test Mode:

Master Network Clock:
 Printer Fail Macro:

Real-Time Clock Accuracy:
 Auto Message Timeout:

Equipment Polling - Fail Macro:
 Pretext Message Timeout:



Cold - boot Macro:
 Enable Logging:

Warm - boot Macro:
 Ethernet Port Number:

Ready. 3/8/2005 10:13 AM Setmax for MAXPRO-Net connected to IP : 127.0.0.1 and Port : 15651

Special Parameters

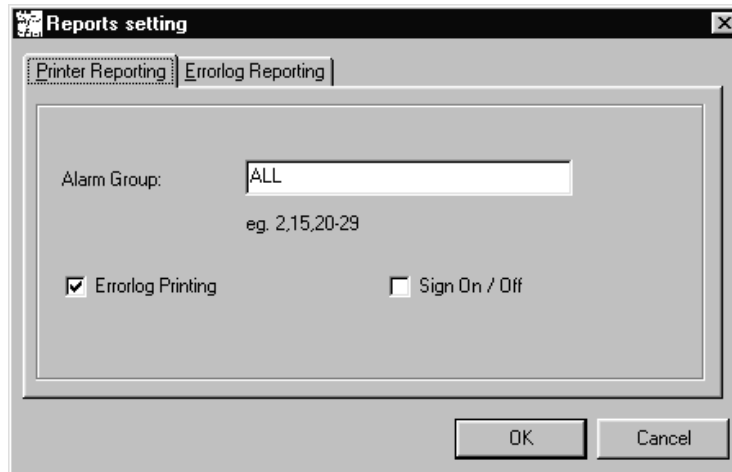
Text Type / Height	<p>The rows on the table represent the different text type and heights that can be selected for display. Five (5) lines of normal height text or three (3) lines of double height text can be displayed.</p> <ul style="list-style-type: none">• Monitor Normal – Normal height text displayed on monitors.• Monitor Double – Double height text displayed on monitors.• VCR/Other Normal – Normal height text displayed on VCRs and other video output devices.• VCR/Other Double – Double height test displayed on VCRs and other video output devices.• Pretext Normal – Normal height text inserted by pretext subracks.• Pretext Double – Double height text inserted by pretext subracks.
Information Lines	<p>The columns on the table represent the types of information that are displayed as text. Not all information line types are available for every text type and height.</p> <ul style="list-style-type: none">• Real Time Clock Line – Defines the line the Real Time Clock is displayed.• Video Source Description – Defines the line the Video Input device description is displayed.• Monitor/Keyboard Description – Defines the line the Monitor description is displayed. When an operator selects the monitor this text is replaced with either the Keyboard description or the Operator description.• Mode Line – Defines the line where the Mode text (eg. Scan mode) is displayed.• Message Line – Defines the line where the Message Line text (eg. Warning message) is displayed.

Special Parameters	
Pretext Status	<p>Selecting the PRETEXT STATUS field provides for definition of the text attributes for all pretext modules being used in the system. Left mouse click on the button next to Pretext Status to open the pretext display box.</p> <p>Note: All pretext modules in the system must be either standard or enhanced type. It is not possible to mix types. This does not apply to post text modules, which are defined, in the video outputs section.</p> <div style="text-align: center;">  </div> <p>Left mouse click on a feature to select or deselect it. If the box beside the feature contains a check mark, the feature is selected. You can select either the Enhanced Text Card or the Hidden Text Card, but not both. The Shadow and Double Height features can both be selected for either type text card.</p> <p>Left mouse click on the Select All button to select all the features. Note: The Select All button selects the Hidden Text Card with Double Height and Shadow features selected. If all features are selected, left mouse click on the Deselect All button to deselect all features.</p> <p>When the Pretext Display Status is set as desired, left mouse click on the OK button. If you want to exit the dialog box without making changes, left mouse click on Cancel.</p>
Enable Alarm Stack	<p>The alarm stack is used to process and cycle all active alarms. Left mouse click on the Enable Alarm Stack field to toggle the Alarm Stack state. If the field contains a check mark, the alarm stack is enabled.</p> <div style="text-align: center;">  </div>
Video Level Fail	<p>This field sets the detection period time in seconds that will elapse before a video level failure is reported. Valid values are 0 (immediate) to 30 seconds.</p> <p>Enter the desired value in the field and press Enter on the keyboard.</p> <p>Note: A video sync loss is detected immediately and is not effected by the value in the video level fail field.</p>

Special Parameters

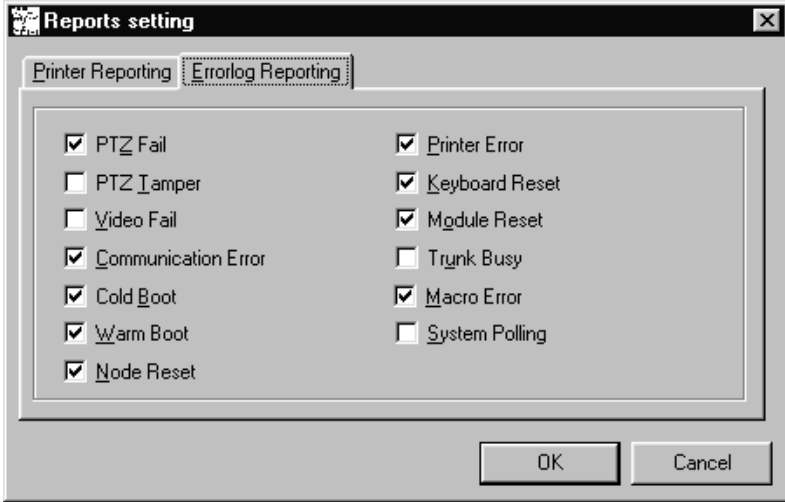
Printer Errorlog Reporting

If a printer is connected to the MAXPRO-Net server, it can be enabled to automatically report alarm events, operator sign on/off and error log messages. Left mouse click on the Printer - Errorlog Reporting field to set these options.



Printer Reporting Tab

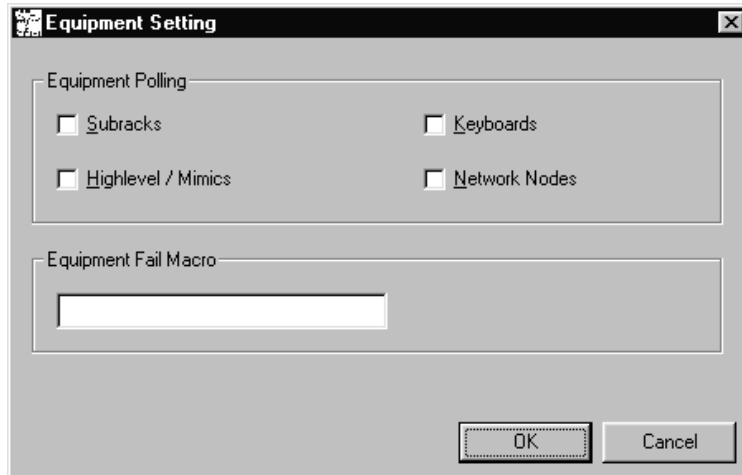
- Alarm Group – enter the range of alarm groups (1-99) that will be reported to the printer. For a print out of all groups, type ALL in this field.
Note: If automatic event printing is not required, but access to the printer is still needed from within the macro environment, enter an unused alarm group number in the alarm group field.
- Errorlog Printing – If this field contains a checkmark, error log messages are sent to the printer. The type of error log messages sent to the printer can be defined by clicking on the ERRORLOG REPORTING tab.
- Sign On/Off – If this field contains a checkmark, all operators that sign on and off the system are reported to the printer.

Special Parameters	
Printer Errorlog Reporting	<p>Errorlog Reporting Tab The types of error log messages sent to the printer are defined by clicking the Errorlog Reporting tab. Left mouse click on any field to select and deselect the error log reporting state.</p>  <p>When the Printer – Errorlog Reporting settings are as desired, left mouse click on the OK button. To exit the Reports setting dialog box without making any changes, left mouse click on the Cancel button.</p>
Network Node ID	<p>When several MAXPRO-Net systems are connected together in a network, each system is given a unique network node ID number. Valid network node numbers are 1 – 255. For a single system this value should be zero (0). Enter the network node number or zero in the field and press Enter on the keyboard. Note: The "Network node ID" will not be live updated to the server.</p>
Master Network Clock	<p>Left mouse click this field to select this node in a networked system to be the master clock. If this field is selected, once each hour, all other network nodes will have the time and date synchronized to this node's clock. Note: Only one network node in the system is permitted to be the master clock source.</p>
Real-Time Clock Accuracy	<p>A value can be entered in this field to correct drift in the real-time clock. After the system is installed and operational, the number of seconds gained or lost should be measured over a 24-hour period. Enter the number of seconds lost or gained in this field. The correction factor is entered using "+" for gained time, and "-" for lost time. Press Enter on the keyboard when the desired value is displayed.</p>

Special Parameters

Equipment Polling – Failed Macro

The MAXPRO-Net Server can poll various types of equipment in the system. Left mouse click on the Equipment Polling – Fail Macro: tab to select the type of equipment that is polled and the macro sequence that executes when that equipment fails to respond to a poll message. Please refer to the MACRO GUIDE for comprehensive details of macro functionality.



Types of equipment that can be polled are:

- Subracks
- High Level Interfaces / Mimic Panels
- Keyboards
- Network nodes

Left mouse click on a field to toggle the selected equipment polling status. Enter the desired macro in the Equipment Fail Macro field you want the system to execute when an equipment type fails.

Left mouse click on the OK button when the desired equipment settings are selected. To exit the Equipment Setting dialog box without making changes, left mouse click on the Cancel button.

Cold Boot Macro

When the MAXPRO-Net Server is powered up or reset, the COLD BOOT macro sequence will be executed following all normal system and equipment initialization.

Please refer to the MACRO GUIDE in the Operator's Manual for comprehensive details of macro functionality.

Enter the desired macro in the field and press Enter on the keyboard.

Note: Cold Boot can be initiated from setmax (Toolbar button).

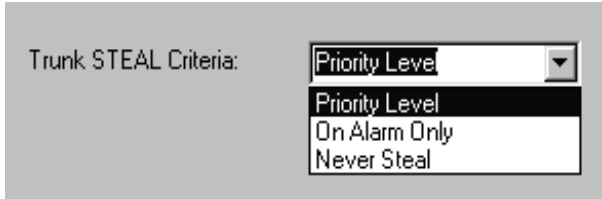
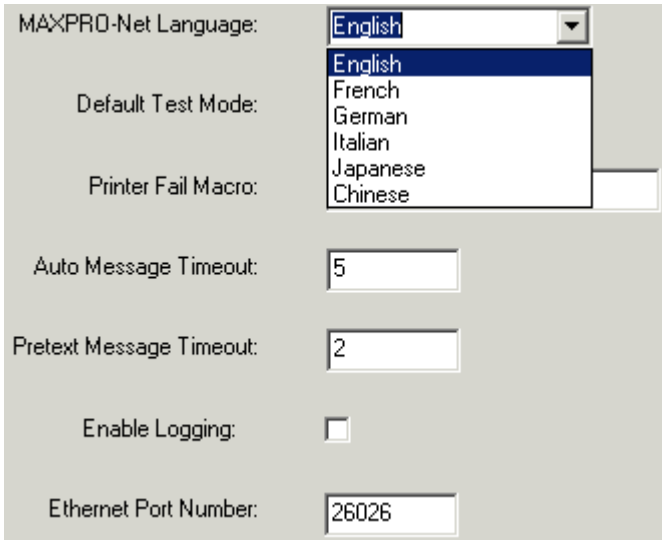
Warm Boot Macro

When the MAXPRO-Net Server receives a reset command the WARM BOOT macro sequence will be executed following all normal system and equipment initialization.

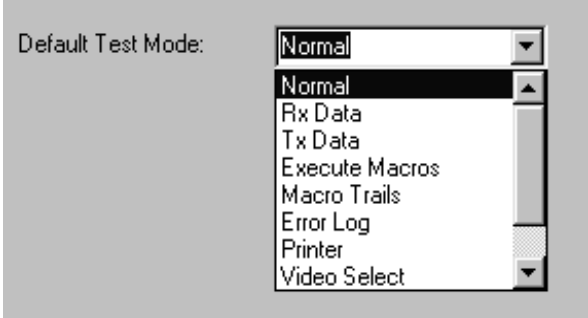
Please refer to the MACRO GUIDE in the Operator's Manual for comprehensive details of macro functionality.

Enter the desired macro in the field and press Enter on the keyboard.

Note: Warm Boot can be initiated from setmax (Toolbar button).

Special Parameters	
Trunk STEAL Criteria	<p>Video trunk lines are used to carry video signals from one system to another. These trunk lines are managed automatically by the MAXPRO-Net system to service the video selection demands of operators. It is possible to run out of video trunk lines and the TRUNK STEAL CRITERIA tab allows for selection of the action that occurs under this congestion condition.</p> <div style="text-align: center;">  </div> <p>The field contains a drop-menu with the possible selections:</p> <ul style="list-style-type: none"> • Priority Level – An operator can steal a trunk from another operator with a lower priority. • On Alarm Only – A trunk can be stolen if an alarm condition causes a system macro to make a video selection. An operator cannot steal from another, regardless of priority. • Never Steal – Trunks are assigned on a first come first serve basis, regardless of operator priorities. <p>Left mouse click on the desired selection.</p>
Forward Net Broadcast	<p>In network environments, it may be required to suppress the forwarding of incoming broadcast messages.</p> <p>Left mouse click on the field to toggle selecting and deselecting the forward network broadcast status.</p>
Check Batch File	<p>This feature is currently unavailable.</p>
MAXPRO-Net Language	<p>The MAXPRO-Net system can display text messages in several different languages. Left mouse click on the MAXPRO-Net Language field to select the required language. A pull-down menu displays the possible selections.</p> <div style="text-align: center;">  </div> <p>Left mouse click on the desired language.</p>

Special Parameters

Default Test Mode	<p>The MAXPRO-Net Server has a video output, known as the menu output, which usually displays the System Configuration Summary. During system commissioning, it can be useful to default this menu output to one of the system test modes. A pull-down menu displays the available options. The options are described below.</p> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> • Normal – displays the system Configuration Summary. • Rx data – displays the data received on all the MAXPRO-Net Server serial communication ports. • TX data – displays the data transmitted from all the MAXPRO-Net Server serial communication ports. • Execute Macros – displays all the macro sequences executed by the system. • Macro Trails – displays the macro trail of the executed macro sequence on the screen. • Error log – displays all subsequent entries to the error log file on the screen. • Printer – displays all subsequent output to the hard-copy printer on the screen. • Video Select – displays every video switching action in the system. • Control – displays every control action for PTZ cameras, VCRs etc. • Auto Number – No data is displayed on the menu output in this test mode. However, if this mode is selected, description text displayed on video output devices will show the logical device number of the device at the start of the text line. <p>Left mouse click on the desired selection in the pull-down menu.</p> <p>Note: When the system is running, the menu output can be selected to display any of the test modes by selecting ALT-F1 to ALT-F10 on the QWERTY keyboard.</p> <p>This System Menu can also be seen using MaxMon utility in MAXPRO-Net.</p>
Printer Fail Macro	<p>When the MAXPRO-Net Server detects the hard-copy printer is no longer on line, the Printer Fail Macro sequence will be executed. Please refer to the MACRO GUIDE for comprehensive details of macro functionality.</p> <p>Enter the desired macro and press the Enter key on the keyboard.</p>
Auto Message Timeout	<p>This field defines the time period in seconds that the automatic message line text is displayed. Valid values are 2 to 99 seconds.</p> <p>Enter the desired value and press Enter on the keyboard.</p>

Special Parameters	
Pretext Message Timeout	This field defines the time period in seconds that the pretext message line text is displayed. Valid values are 2 to 99 seconds. Enter the desired value and press Enter on the keyboard.
Enable Logging	This determines whether the MAXPRO-Net server stores all the log messages since the last restart or cold boot. Maximum of 20,000 messages can be stored in the server. Select this check box if you want to view the events history by connecting MaxMon to the server. Note: Enabling this option will slow down the server. This is used mainly for debugging purpose.
Ethernet Port Number	This field defines the port number used by the clients (SetMax or MaxMon) to connect to the server over the Ethernet. The default port number will be 26026. Note: The "Ethernet Port No." will not be live updated to the server.

Notes:

SECTION 13: SERIAL PORTS

13.1 DEFINING SERIAL PORTS

The MAXPRO-Net Server uses serial ports to communicate with keyboards, equipment subracks, and other video equipment. Left mouse click on the Serial Ports tab to edit the properties for each serial communication port. The details of each of the properties are described below.

PORT	PORT TYPE	DESCRIPTION	ID1	ID2	ID3	ID4	ID5	ID6	ID7	ID8	BAUD RATE	STAY ALIVE	XON / XOFF	DATA BITS	STOP BITS	PARI1
1	Keyboard	RD-18 #1	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Ever
2	Subrack	RD-18 #9	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Ever
3	Network	RD-18 #3	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Ever
4	Subrack	RD-18 #4	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Ever
5	Network	RD-18 #5	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Ever
6	Subrack	RD-18 #6	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Ever
7	Subrack	RD-18 #7	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Ever
8	Auxiliary	RD-18 #8	All	0	0	0	0	0	0	0	9600	Disabled	Disabled	8	1	None
9	VB-ID/PreTitler	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
10	VB-PTZ	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
11	Subrack	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
12	VB-Alarm/CDoutput	RD-18 #6	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
13	Subrack	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
14	Network	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
15	Highlevel/Mimic	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
16	Auxiliary	RD-18 #9	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
17	Error Log	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
18	Test	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
19	Network	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever
20	Subrack	RD-18 #8	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Ever

Serial Ports	
Port	This is the reference number of the serial port. There can be up to 20 ports defined in a single system. This is not a changeable field.

Serial Ports

Port Type

Each serial port must be defined for the type of equipment connected to the port. You may select the port type from the pull-down menu as shown, or by typing the first letter of the required port type. When the equipment type is displayed, press Enter on the keyboard. The possible selections are:

T	PORT TYPE
	<None>
	<None>
	Keyboard
	Subrack
	Network
	Highlevel/Mimic
	Printer
	Auxiliary
	Error Log

- Keyboard – the port connects to a keyboard.
- Subrack – the port connects to an equipment subrack.
- Network – the port connects to another MAXPRO-Net Server.
- Highlevel / Mimic – the port connects to a mimic panel or other computer system with a high level interface.
- Printer – the system hard copy print output is redirected to the serial port if this option is selected. Only one port can be selected as a printer port.
- Auxiliary – if a port is selected as auxiliary, it can receive any valid MAXPRO-Net protocol command message. Data can be sent from the port using a direct port write from a system macro. Please refer to the MACRO GUIDE for comprehensive details of macro functionality.
- Error Log – All data saved to the errorlog file is also sent out of the serial port. Only one port can be selected for errorlog data.
- Test – a port selected as a test port will transmit all keyboard, subrack, high-level and network data. It can also receive any valid MAXPRO-Net protocol command message. Only one port can be selected as a test port.

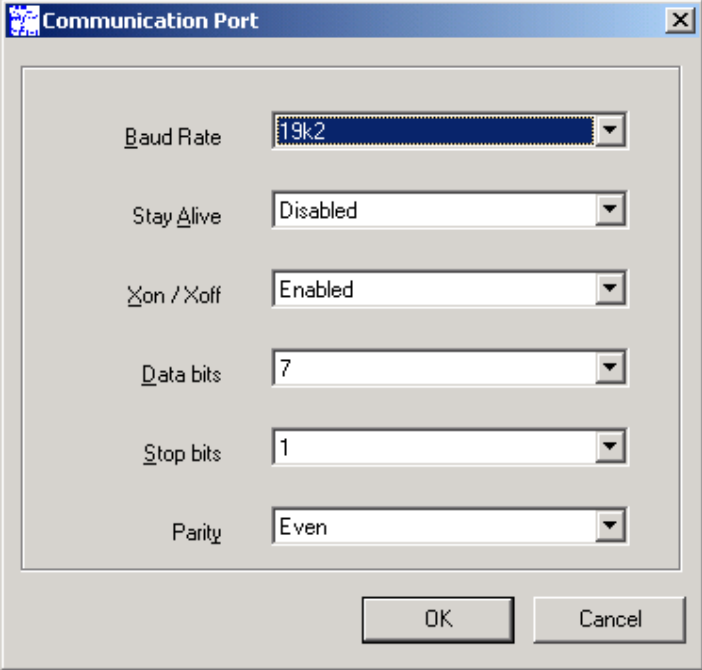
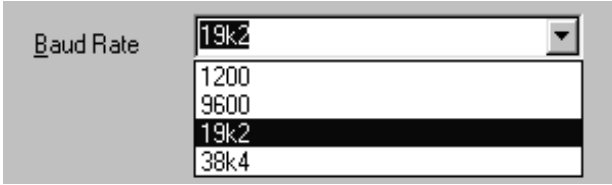
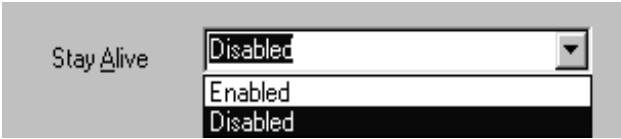
Note: A port selected as a particular type will only transmit data of that type. However, the port can also receive data from other types of equipment, so long as the data is a valid MAXPRO-Net protocol command message.

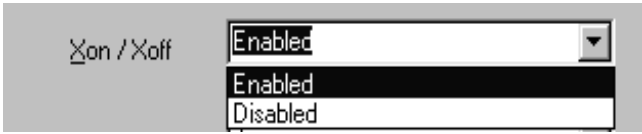
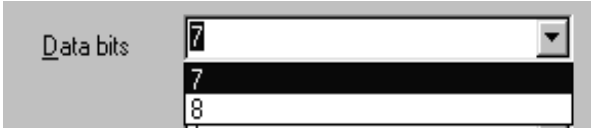
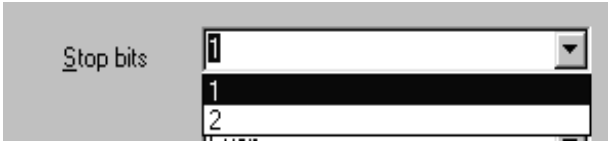

Note: If MX18 units are being used to expand the number of serial ports, the port type should be selected as the type of device connected to the ports of the MX18.

For VideoBlox subrack interaction, the port type represents the type of device to be connected to the port.

1. VB-IO/Pretitler
2. VB-PTZ
3. VB-Alarm/Coutput
4. VB-Auxiliary

Serial Ports	
Description	This is an 18-character description used to identify the selected communication port. It is used for reference only. Enter up to 18 characters in this field and press Enter on the keyboard.
ID1 – ID8	<p>These fields are used to limit the amount of data being transmitted from a selected port. Placing a number in any of these fields will only transmit data to equipment of the selected type with that ID number. The ID1 field also allows the value ALL to be entered, which enables all data of the selected type to be transmitted, regardless of the ID number. Selecting ALL will clear all the other ID fields. The valid ID range for the selected port types are:</p> <ul style="list-style-type: none"> • Keyboard ID 1 – 99 • Subrack ID 1 – 799 • Network ID 1 – 255 • Highlevel/Mimic ID 1 – 99 <p>Enter the desired value in each ID field and press Enter on the keyboard. Note: This is not applicable for VideoBlox. For VideoBlox subrack (ID3 – ID4), these two fields represent the video loss source device type. 0 & 0 represents video loss source device is Input cards. 0 & 1 represents video loss source device is Concentrator. 1 & 0 represents video loss source device is MVT or pretext devices. 1 & 1 represents no device as video device loss source. For VideoBlox subrack (ID6), this ID represents the version of matrix switcher hardware for audio switching. 1 represents the old VideoBlox matrix switcher hardware. For VideoBlox subrack (ID7), this ID represents the version of matrix switcher hardware for video switching. 1 represents the old VideoBlox matrix switcher hardware.</p>

Serial Ports	
Baud Rate	<p>Left click on the Baud Rate field to open the dialog box for defining the communication settings for the port.</p>  <p>The data rate for the port is selected from the Baud Rate field. A pull-down menu displays the available baud rate selections. This field defaults to 19.2K (19k2) baud. To change the baud rate, left mouse click on the down arrow to open the pull-down menu. Left mouse click on the desired baud rate.</p> 
Stay Alive	<p>If the Stay Alive function is enabled, an ACK character is transmitted from the port every 2 seconds. This is required by MX-18 units to indicate the MAXPRO-Net Server is still functioning. By default the stay alive function is disabled. To change the stay alive setting, left mouse click on the down arrow to open the pull-down menu. Left mouse click on the desired setting.</p> 

Serial Ports	
XON / XOFF	<p>If this option is enabled, XON and XOFF characters are transmitted to resume and stop the data flow. (i.e. Software handshaking). XON/XOFF is enabled by default. To change the setting, left mouse click on the down arrow to open the pull-down menu. Left mouse click on the desired setting.</p> 
Data Bits	<p>The number of data bits per character can be selected as either 7 or 8. The default value is 7. To change the data bits setting, left mouse click on the down arrow to open the pull-down menu. Left mouse click on the desired setting. The value can also be typed into the field.</p> 
Stop Bits	<p>The number of stop bits per character can be selected as either 1 or 2. The default value is 1. To change the stop bits setting, left mouse click on the down arrow to open the pull-down menu. Left mouse click on the desired setting. The value can also be typed into the field.</p> 
Parity	<p>The type of parity to be used by the port can be selected as Even, Odd or None. The Default is even parity. To change the parity setting, left mouse click on the down arrow to open the pull-down menu. Left mouse click on the desired setting. The value can also be typed into the field.</p> 

Notes:

SECTION 14: ERROR LOG

14.1 DEFINING ERROR LOG

The MAXPRO-Net system uses the Error Log database to save details of macro errors, system fault information, and changes in operational status. Left mouse click on the Error Log tab to display the contents of the error log database.

Each entry in the file includes the date and time information, as well as details of the change or error that caused the entry. Macro errors are labeled with a macro error number. For details of macro error numbers, please refer to the table below.

Macro Error Definition Table	
01	Format error in extended command
02	Format error in conditional command
03	Unknown command in expression evaluation
04	Unknown command in update expression
05	Numeric variable range error
06	Scan sequence range error
07	External alarm range error
08	Auxiliary control output range error
09	Invalid numeric evaluation error
10	Macro timer range error
11	Macro timer command error
12	Macro timer period error
13	System macro range error
14	Unknown video output channel
15	Unknown video input source
16	Invalid external alarm control logic
17	Invalid auxiliary output control logic
18	Invalid camera disable logic
19	Invalid PTZ speed
20	Unknown system constant error
21	Unknown text message command error
22	Invalid operator sign used with commands
23	Invalid keyboard identification number
24	Invalid alarm stack entry i.e.: not an alarm macro
25	Invalid alarm display group (1 ↔ 50) only
26	Macro string exceeds 255 characters
27	Conditional statement missing closed brackets
28	Invalid real time clock time or date definition
29	Invalid video source command
30	String variable command format error
31	String variable range error
32	Unknown evaluate command for string
33	Too many nested do-while loops

Macro Error Definition Table (cont.)	
34	Format error in do-while loop
35	Maximum loop cycles has been exceeded
36	Keyboard priority range error
37	Invalid keyboard identity for macro numeric input command
38	Invalid destination for keyboard macro numeric input command
39	Too many digits requested for keyboard macro numeric input
40	Invalid scan clear command
41	No dynamic macro timer available
42	User flag range error (0 ⇔ 8 only)
43	Keyboard operator range error (0 ⇔ 100 only)
44	User defined character range error, in direct comm port writes
45	Undefined comm port number, in direct comm. Port writes
46	Internal change network source
47	Internal change network source node command format error
48	Scan sequence entry number is out-of-range i.e. : greater than (99)
49	Error in command format received from a subrack/keyboard
50	Parity error in received data from a subrack/keyboard
51	Range error in Blank Channel command (valid 0 - 3 only)
52	Unknown Special WORD command. E.g.: <WARM-BOOT> etc.
53	Other errors detected during Cold/Warm Boot. Check ERRORLOG.

As well as the macro error number, details of the macro trail are also given in the Error Log. The macro trail details the actual event that caused the macro to begin execution, which is given as a 2-letter code and lists the system macro lines called prior to the macro error occurring.

The event codes are listed in the table below:

Event Code	Description of Event
AS	External alarm start macro
AF	External alarm finish macro
VS	Video input start macro
VF	Video input finish macro
CB	System cold boot macro
WB	System warm boot macro
KI	Keyboard key intercept macro (key-pressed)
KR	Keyboard key intercept macro (key-released)
PE	Keyboard post event macro (executed)
NT	Network macro received from another MAXPRO-Net network node
LN	Local network macro (internal action request type)
LB	Local network macro (status broadcast type)
PE	Post-event macro (for a keyboard)
SN	Operator sign-on macro
SF	Operator sign-off macro
UM	Keyboard user macro
TM	Timed-event macro
DM	Direct macro command from an external system (via high-level)

The Error Log can be printed by selecting the File then Print Errorlog from the menu bar in SetMax Configurator.

To clear the Error Log database select Edit then Delete or select the delete button from the toolbar when the Error Log is being displayed.

Notes:

SECTION 15: TITLE & REGISTRATION

15.1 TITLE & REGISTRATION

The Title and Registration window provides details of the license information for the MAXPRO-Net software. Some of the fields are fixed, and some can be edited depending on the access level of the user.

The screenshot shows the 'Setmax for MAXPRO-Net [V03_10018_SG - Security]' window. The 'Title and Registration' tab is selected. The window displays the following information:

- MAXPRO-Net CCTV Management System**
- (C) Copyright 1991-2004 HONEYWELL INTERNATIONAL INC.
- License Number: V03/10018/SG
- Version Number: 5.00
- Date Installed: 16/NOV/04
- Date Last Revised: 16/NOV/04
- Distributor Name: Honeywell
- Client Name: Beta
- Site Name: Security
- Description: line one, line two, line three, line four, line five, line six

The status bar at the bottom indicates: Ready, 2/25/2005, 11:30 AM, Setmax for MAXPRO-Net connected to IP : 127.0.0.1 and Port

Title and Registration	
License Number	For fully functional MAXPRO-Net software, the license number will be unique and contains up to 12 characters. Demo MAXPRO-Net software will have "DEMO" somewhere in the license number, and has reduced functionality. The license number is fixed and cannot be edited.
Version Number	The version number of the MAXPRO-Net configuration is displayed in this field.
Date Installed	This is the date the MAXPRO-Net system files were originally generated.
Date Last Revised	This is the last date the MAXPRO-Net system files were edited by SETMAX configurator.

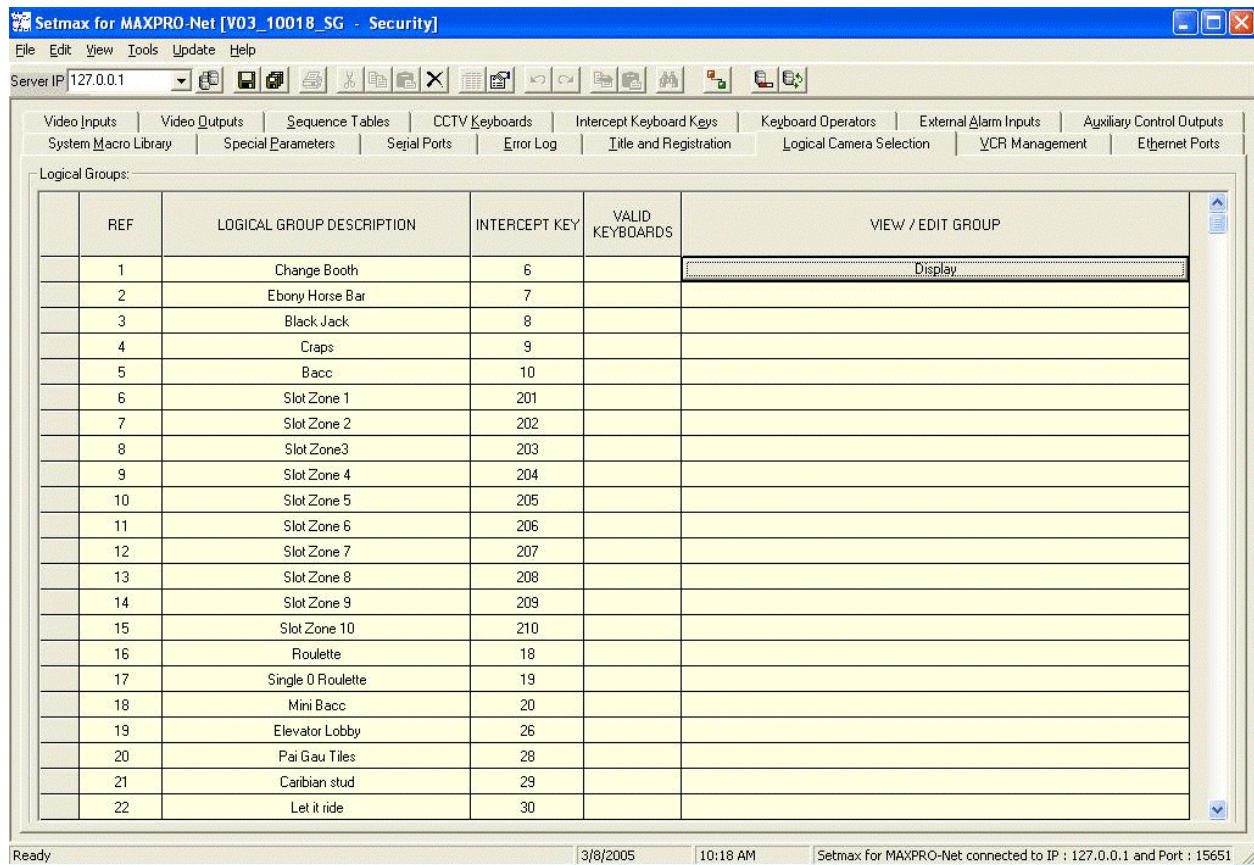
Title and Registration	
Distributor Name	The Distributor Name is fixed when the MAXPRO-Net system files are originally generated. It can contain up to 18 characters and cannot be edited.
Client Name	The Client name can be edited by users with Distributor access level. It can contain up to 18 characters.
Distributor Password	By entering a value in this field, the MAXPRO-Net configuration files are protected from unauthorized editing. The next time SetMax is run, the user will be prompted with a logon message. If the user enters the correct Distributor Password all the files can be edited. The Distributor Password can contain up to 8 characters. If this field is left blank, (and the Client Password is also left blank) SetMax can be run without entering a password.
Client Password	The Client Password has slightly lower access rights than the Distributor Password. The fields that cannot be edited when the Client Password is used are the Client Name field, and the Site Name field, and the Distributor Password field cannot be viewed. The Client Password can contain up to 8 characters. If this field is left blank, (and the Distributor Password is also left blank) SetMax can be run without entering a password. If the Client Password is used, then a Logon tab is displayed in SetMax, which allows entry of the Distributor password if required.
Site Name	The Site Name can be edited by users with a Distributor access level. It can contain up to 18 characters.
Description	The Description field is made up of 6 lines of 60 characters. A description of the site can be entered here for reference purposes.

SECTION 16: LOGICAL CAMERA SELECTION

16.1 DEFINING LOGICAL CAMERA GROUPS

Logical Camera Selection allows cameras to be grouped together so that selection of a particular camera is made more straightforward for the operator. Instead of having to select the camera purely by its number, the operator can select the group the camera belongs to followed by a number within that group. For example:

Camera 1234 can instead be selected as 'Level 1 Cameras', '5', with the name of the group (in this case Level 1 Cameras) being selected by a single button press. This speeds up and simplifies the selection of video inputs. The details of each of the **Logical Camera Selection** properties are described below.



Logical Camera Selection	
REF	The logical group reference number is purely a reference number used to distinguish one logical group from another. The logical group reference number field is NOT a changeable field.
Logical Group Description	This is an 18-character description used to identify the selected logical group.

Logical Camera Selection

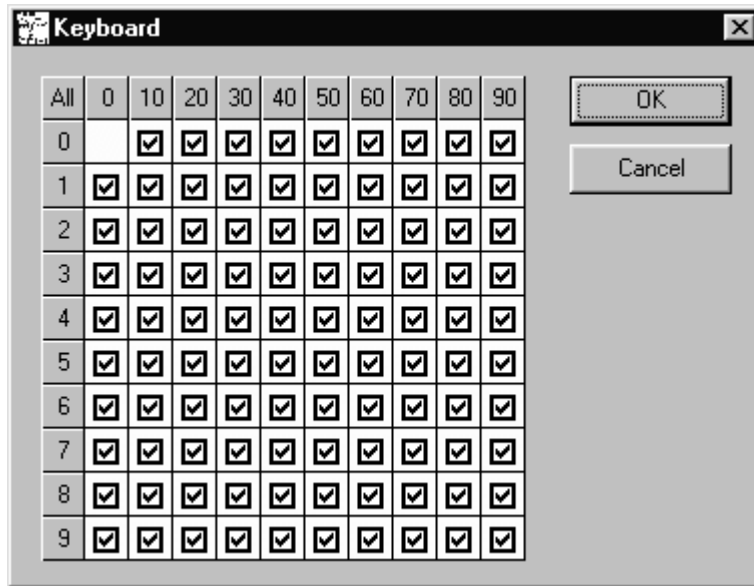
Intercept Key

This is the keycode number that selects the logical group. Please refer to the diagram at the end of this chapter, which shows the HEGS5300 keyboards and positions of all buttons and associated keycodes. Valid keycodes are 1 to 999. Entering a number in the Intercept Key field will automatically update the Intercept Keyboard Keys table.

Valid Keyboards

Keyboard access to each logical group is configurable through entries in the Valid Keyboards panel. Each of the 99 keyboards may be given access by selecting its corresponding field.

Left mouse click on any field to toggle the keyboard access state. If a field contains a check mark, that keyboard has access to the logical camera group. To select or deselect all keyboards, left mouse click on the All button. When the keyboard access is configured, press the OK button. To exit the Keyboard dialog box with making changes, press the Cancel button.



Logical Camera Selection

View / Edit Group

Left mouse click on the View / Edit Group field to display the Group Detail Dialog Box for the selected Logical Group. To close the Group Detail Dialog Box, left mouse click on the Hide button in the View/Edit Group field.

The Group Detail contains the following fields:

The screenshot shows the 'Setmax for MAXPRO-Net [V03_10018_SG - Security]' application window. The 'Logical Camera Selection' dialog is open, displaying a table of logical groups. Below it, the 'Change Booth Detail' dialog is also visible, showing a table of camera selection parameters.

REF	LOGICAL GROUP DESCRIPTION	INTERCEPT KEY	VALID KEYBOARDS	VIEW / EDIT GROUP
1	Change Booth	6		Hide
2	Ebony Horse Bar	7		
3	Black Jack	8		
4	Craps	9		
5	Bacc	10		

Selection Number	Primary Camera	Primary View	Alternate Camera 1	Alternate View 1	Alternate Camera 2	Alternate View 2	Alternate Camera 3	Alternate View 3	Alternate Camera 4	Alternate View 4
1	54	0	53	0	52	20	0	0	0	0
2	45	0	44	0	52	21	0	0	0	0
3	87	0	88	0	108	20	0	0	0	0
4	89	0	90	0	108	21	0	0	0	0
5	163	0	165	0	161	29	0	0	0	0
6	164	0	167	0	161	28	0	0	0	0

Enter the applicable value in each of the fields and press Enter on the keyboard. Use the parameters listed in the following paragraphs for the values that can be entered in each field.

Selection Number	This is a unique number within each group. It defines the number entered by the operator to select the Primary Camera in the group. There can be up to 99 different selection numbers per group. Valid values are 1 – 9999.
Primary Camera	This field holds the Camera Number that is selected when the operator has selected a Group and a selection number within that group. Valid values are 1 – 9999, and must correspond to a camera number defined in the Video Inputs table.

Logical Camera Selection																																				
	Primary View	<p>The primary camera can also be a PTZ camera with view recall capability. In this case an actual VIEW number can be specified. Therefore, selecting the group and selection number within that group, will now not only display the primary camera but will also automatically move it to the designated VIEW preset position. The valid camera views range is 1 – 99, 0 is the default value which indicates no camera view is to be selected.</p> <p>Note: As the view number '0' is used to indicate that NO VIEW is specified, view '0' can NOT be recalled by this field.</p>																																		
View / Edit Group, Cont	<p>Note: To enable the selection of alternate cameras and views, the following must be added to the Intercept Keyboard Keys table. The macro [<LOG-CAM-ALT>] must be entered into the key replacement macro field. The example here uses keycode 10, the ALT key, but alternatively any other keycode can be used.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Video Inputs</th> <th colspan="2">Video Outputs</th> <th colspan="2">Sequence Tables</th> <th colspan="2">CCTV Keyboards</th> <th colspan="2">Intercept Keyboard Keys</th> <th colspan="2">Keyboard</th> </tr> <tr> <th>REF</th> <th>KEY CODE</th> <th colspan="2">DESCRIPTION</th> <th colspan="2">KEYBOARD</th> <th colspan="5">KEY REPLACEMENT MACRO</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">10</td> <td colspan="2" style="text-align: center;"><ALT></td> <td colspan="2"></td> <td colspan="5" style="text-align: center;">[<LOG-CAM-ALT>]</td> </tr> </tbody> </table>		Video Inputs		Video Outputs		Sequence Tables		CCTV Keyboards		Intercept Keyboard Keys		Keyboard		REF	KEY CODE	DESCRIPTION		KEYBOARD		KEY REPLACEMENT MACRO					1	10	<ALT>				[<LOG-CAM-ALT>]				
	Video Inputs		Video Outputs		Sequence Tables		CCTV Keyboards		Intercept Keyboard Keys		Keyboard																									
	REF	KEY CODE	DESCRIPTION		KEYBOARD		KEY REPLACEMENT MACRO																													
	1	10	<ALT>				[<LOG-CAM-ALT>]																													
Alternate Camera 1	<p>This field defines the first alternate camera to be selected when the 'ALT' key is pressed. This camera is also selected by pressing the ↑ key on the keyboard after the primary camera has been selected, or the ↓ key after the Alternate Camera 2 has been selected. The range of valid camera numbers is 1 – 9999. The alternate camera 1 would have to be defined elsewhere in the video input table. A value of 0 is the default value and indicates no alternate camera is defined.</p>																																			
Alternate View 1	<p>When Alternate Camera 1 is selected, it can automatically move to the designated VIEW preset position. The valid camera views range is 1 – 99, 0 is the default value which indicates no camera view is to be selected.</p> <p>Note: As the view number '0' is used to indicate that NO VIEW is specified, view '0' can NOT be recalled by this field.</p>																																			
Alternate Camera 2	<p>This field defines the second alternate camera to be selected when the 'ALT' key is pressed again after selecting alternate camera 1. The range of valid camera numbers is 1 – 9999. The alternate camera 2 would have to be defined elsewhere in the video input table. A value of 0 is the default value and indicates no alternate camera is defined.</p>																																			

Logical Camera Selection		
	Alternate View 2	When Alternate Camera 2 is selected it can automatically move to the designated VIEW preset position. The valid camera views range is 1 – 99, 0 is the default value which indicates no camera view is to be selected. Note: As the view number '0' is used to indicate that NO VIEW is specified, view '0' can NOT be recalled by this field.
View / Edit Group, Cont.	Alternate Camera 3	This field defines the third alternate camera to be selected when the 'ALT' key is pressed again after selecting alternate camera 2. The range of valid camera numbers is 1 – 9999. The alternate camera 3 would have to be defined elsewhere in the video input table. A value of 0 is the default value and indicates no alternate camera is defined.
	Alternate View 3	When Alternate Camera 3 is selected it can automatically move to the designated VIEW preset position. The valid camera views range is 1 – 99, 0 is the default value which indicates no camera view is to be selected. Note: As the view number '0' is used to indicate that NO VIEW is specified, view '0' can NOT be recalled by this field.
	Alternate Camera 4	This field defines the fourth alternate camera to be selected when the 'ALT' key is pressed again after selecting alternate camera 3. The range of valid camera numbers is 1 – 9999. The alternate camera 4 would have to be defined elsewhere in the video input table. A value of 0 is the default value and indicates no alternate camera is defined.
	Alternate View 4	When Alternate Camera 4 is selected it can automatically move to the designated VIEW preset position. The valid camera views range is 1 – 99, 0 is the default value which indicates no camera view is to be selected. Note: As the view number '0' is used to indicate that NO VIEW is specified, view '0' can NOT be recalled by this field.
	Note: Continually pressing the ALT key on the keyboard will cycle around the Primary camera and Alternate cameras defined in the group. Using the ↑ and ↓ keys will select the next or previous camera in the group until the last defined camera has been selected. Then an “End of Sequence” message will be displayed on the operator’s monitor.	

16.2 EXAMPLE OF LOGICAL CAMERA SELECTION

Logical Groups:					
	REF	LOGICAL GROUP DESCRIPTION	INTERCEPT KEY	VALID KEYBOARDS	
	1	Level 1 Cameras	22		
	2				
	3				
	4				
	5				
	6				

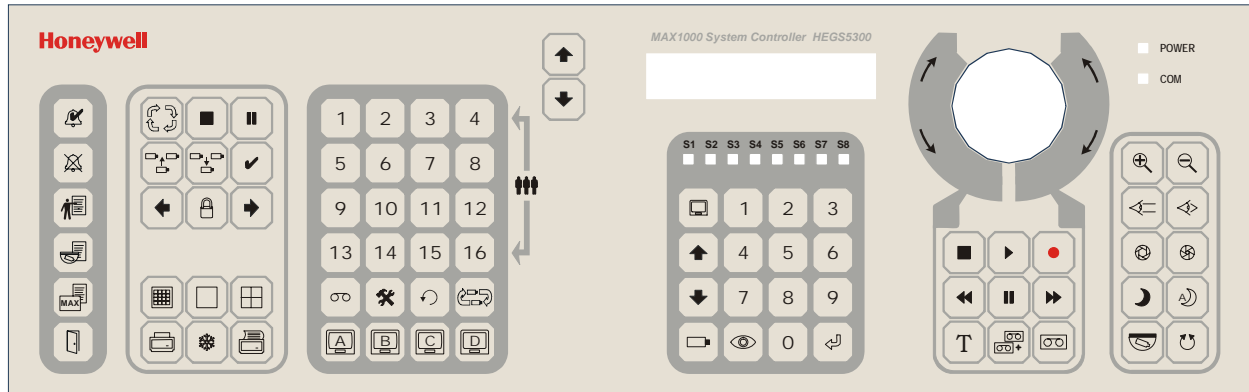
Level 1 Cameras Detail							
	Selection Number	Primary Camera	Primary View	Alternate Camera 1	Alternate View 1	Alternate Camera 2	Alternate View 2
	1	34	2	26	98	0	0

The Logical Groups section of the table shows that the group called 'Level 1 Cameras' is selected by pressing key 22 on the keyboard. The Detail section of the table then shows that by pressing key 1, camera 34 is displayed on the operator's monitor at preset view position 2.

Pressing the ALT key will then select camera 26 at preset view position 98. This is the last camera in this sequence as all other fields in this row are the default of 0.

16.3 HEGS5300 KEYBOARD OVERLAY

The illustration below is the standard default overlay on a HEGS5300 keyboard. Overlays are exchangeable and can be customized so they may vary from site to site.



Notes:

SECTION 17: VCR MANAGEMENT

17.1 VCR MANAGEMENT

MAXPRO-Net supports an extensive range of automated VCR management capabilities. These capabilities and functions are readily implemented in any MAXPRO-Net system via the 'New System Wizard' and the VCR Management table.

VCR management provides 'one touch' review of dedicated VCRs; while viewing a camera simply press the 'Dedicated Review' key and the appropriate VCR will be automatically selected to the review monitor and be ready for instant review, additional operators may concurrently review the VCR where required for verification purposes. Logging and standby VCRs are reviewable similarly.

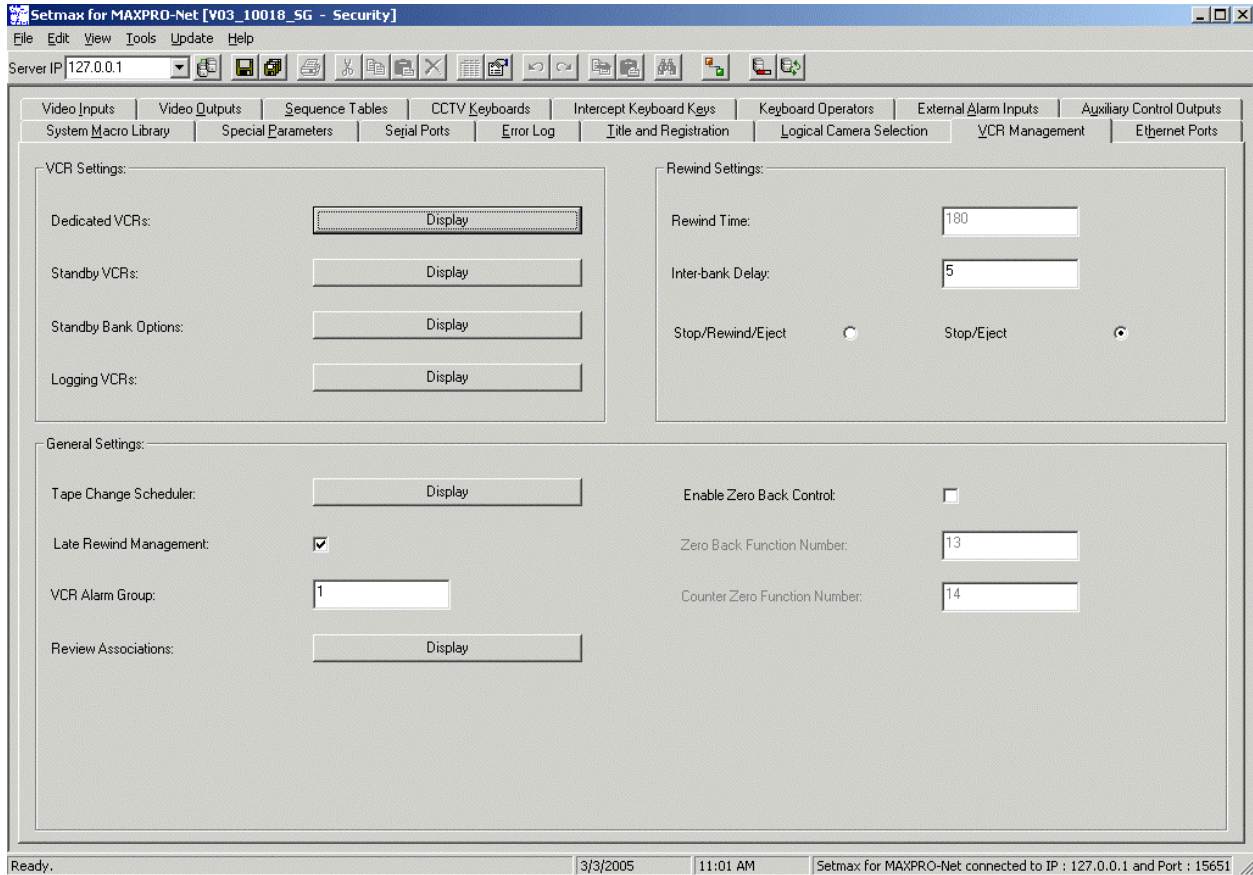
Tape change operations may be automatically or manually initiated, the MAXPRO-Net printer output provides a comprehensive audit trail of Tape change and standby VCR allocation details.

The following definitions explain the terms commonly used in VCR management:

- **Dedicated VCR** - a VCR connected and configured to continuously record a single camera. Dedicated VCRs are generally connected between a pretext subrack and the matrix switcher, the pretext subrack receiving its video feed direct from the camera. Dedicated VCRs are numbered according to the camera they record i.e. dedicated VCR 1 records camera 1.
- **Standby VCR** - a VCR which provides backup recording for other VCRs in the system in the event that recording on those VCRs ceases. Each Standby VCR requires an output channel on the matrix switcher which has access to all the video sources for which it provides backup recording, additionally a video input is required for review purposes.
- **Logging VCR** - Logging VCRs provide continuous recording of operator monitor video, they are connected between the matrix switcher and the operator monitor. Logging VCRs are numbered according to the monitor they record i.e. logging VCR 1 records monitor 1.
- **Bank** - a group of VCRs of the same type. Grouping VCRs into banks allows operations such as Tape change to be performed. The maximum number of VCRs per bank is 50.

17.1 VCR MANAGEMENT, CONTINUED

Selection of the **VCR Management** tab allows for direct editing of the properties associated with VCR Management. The table is divided into 3 groups. The details of these groups and the properties of each are described below.



VCR Management

VCR SETTINGS

Dedicated VCRs

Selecting the Dedicated VCRs 'Display' tab displays the following properties page.

Bank Number	Dedicated VCR Number	Dedicated VCR Number	Dedicated VCR Number	Dedicated VCR Number	Dedicated VCR Number	Dedicated VCR Number	Dedicated VCR Number
1	1	2	3	4	5	6	7
2	11	2	3	5	4	8	0
3	5	0	0	0	0	1	0
4	6	8	0	0	0	0	0
5	0	44	0	0	0	0	0
6	0	0	66	0	0	0	0
7	0	448	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	6	4	5	454	0	0
10	9	54	5	0	4	0	0
11	0	0	0	0	4	0	0
12	0	54	0	5	0	0	0
13	54	45	0	5	0	0	0
14	54	0	45	5	0	0	0
15	0	0	54	1	7	8	0

Bank Number

MAXPRO-Net supports up to 99 banks of dedicated VCRs, each bank may contain up to 50 VCRs. The bank number is purely a reference number used to distinguish one bank of dedicated VCRs from another. The bank number field is NOT a changeable field.

Dedicated VCR Number

These fields allow for the definition of which Dedicated VCRs reside in each bank, valid VCR numbers are 1 – 9999 (N.B. the VCR number = the camera number being recorded by the dedicated VCR).

Manual Start Input

Where Tape change sequencing is to be initiated manually this field is used to define the external alarm input, which will be used to begin Tape change operations on this bank. Upon entry of a value into this field, Setmax will automatically add the appropriate definitions to the 'External Alarm Inputs' table. The range of valid entries is 1 – 9999; the default value is 0 indicating Tape change operations are automatically initiated.

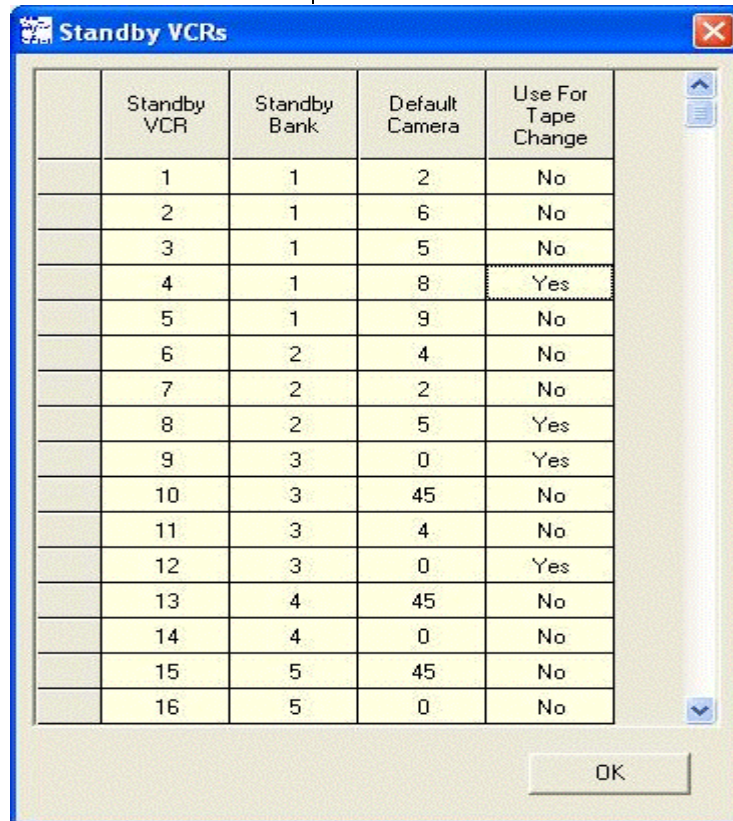
When you have completed editing the dedicated VCR properties page, left mouse click on the OK button.

VCR Management

VCR SETTINGS,
CONT.

Standby VCRs

Selecting the Standby VCRs 'Display' tab displays the following properties page.



Standby VCR	Standby Bank	Default Camera	Use For Tape Change
1	1	2	No
2	1	6	No
3	1	5	No
4	1	8	Yes
5	1	9	No
6	2	4	No
7	2	2	No
8	2	5	Yes
9	3	0	Yes
10	3	45	No
11	3	4	No
12	3	0	Yes
13	4	45	No
14	4	0	No
15	5	45	No
16	5	0	No

Standby VCR

MAXPRO-Net VCR Management supports up to 99 standby VCRs, this numeric field is used for reference purposes only and is NOT changeable

Standby Bank

This field defines which bank this standby VCR belongs, valid entries are 1 – 9.

Default Camera

When the standby VCR is not in use providing backup recording, it is useful to have it recording something of value. This field allows definition of a default camera, which will be recorded by the standby when it is not otherwise in use. Valid entries are 1 – 9999.

Use For Tape change

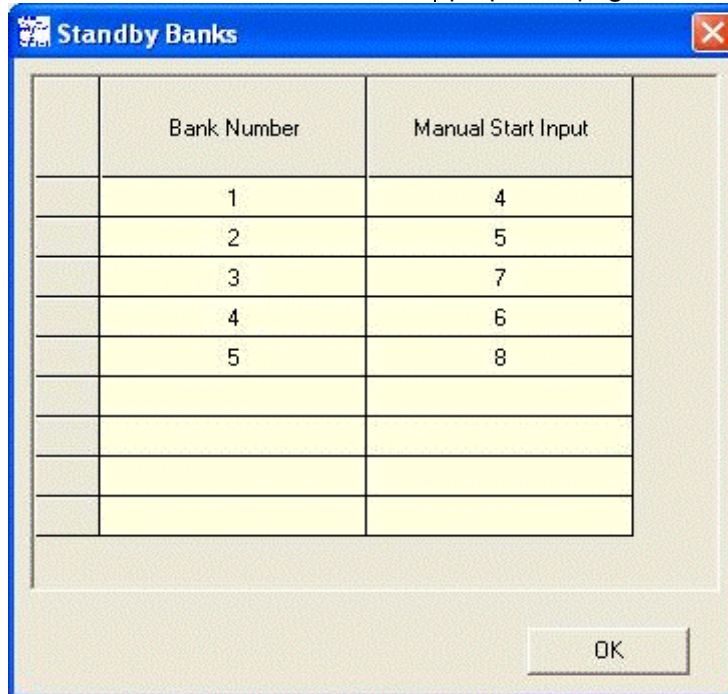
Each standby VCR is configurable as to what functions it will be used for. All standby VCRs will be used for general backup during review or failure and may additionally provide backup during Tape change operations by setting this field to 'Yes'.

VCR Management

VCR SETTINGS,
CONT.

Standby Bank Options

Selecting the Standby Bank Options 'Display' tab displays the following properties page.



The screenshot shows a dialog box titled "Standby Banks" with a close button (X) in the top right corner. Inside the dialog is a table with two columns: "Bank Number" and "Manual Start Input". The table contains five rows of data, with the first five rows filled and the last three rows empty. Below the table is an "OK" button.

Bank Number	Manual Start Input
1	4
2	5
3	7
4	6
5	8

Bank Number

Specify the standby VCR bank in this field, valid values are 1 – 9.

Manual Start Input

Where Tape change sequencing is to be initiated manually this field is used to define the external alarm input, which will be used to begin Tape change operations on this bank. Upon entry of a value into this field, SetMax automatically adds the appropriate definitions to the 'External Alarm Inputs' table. The range of valid entries is 1 – 9999, the default value is 0 indicating Tape change operations are automatically initiated.

VCR Management

**VCR
SETTINGS,
CONT.**

Logging VCRs

Selecting the Logging VCRs 'Display' tab displays the following properties page.

Bank Number	Logging VCR Number	Logging VCR Number	Logging VCR Number	Logging VCR Number	Logging VCR Number	Logging VCR Number	Logging VCR Number	Logging VCR Number
1	1	2	3	4	5	6	8	
2	8	9	10	11	12	13	14	
3	15	16	17	18	19	20	21	
4	0	0	0	0	0	0	0	
5	7	6	8	9	5	0	0	
6	0	0	0	0	0	0	0	
7	51	52	53	58	55	54	0	
8	5	0	0	0	0	0	0	
9	2	4	5	6	8	75	0	

Bank Number

Specify the standby VCR bank in this field, valid values are 1 – 9.

Logging VCR Number

These fields allow for the definition of which Logging VCRs reside in each bank, valid VCR numbers are 1 – 9999 (N.B. the VCR number = the monitor number being recorded by the logging VCR).

Manual Start Input

Where Tape change sequencing is to be initiated manually, this field is used to define the external alarm input, which will be used to begin Tape change operations on this bank. Upon entry of a value into this field, SetMax will automatically add the appropriate definitions to the 'External Alarm Inputs' table. The range of valid entries is 1 – 9999; the default value is 0 indicating Tape change operations are automatically initiated.

VCR Management

GENERAL SETTINGS

Tape Change Scheduler

Selecting the Tape Change Scheduler 'Display' tab displays the following properties page. Up to 24 individual tape change schedules may be defined.

The screenshot shows a window titled "Tape Change Scheduler" with a table containing the following data:

Time	VCR Bank	VCR Bank	VCR Bank	VCR Bank	VCR Bank
01:00	Dedicated 1	Dedicated 2			
02:00	Dedicated 4	Dedicated 1			
03:00	Dedicated 6	Dedicated 1			
04:00	Dedicated 8	Dedicated 1			
05:00	Dedicated 5	Dedicated 1			
06:00	Logging 7	Dedicated 7			
07:00	Dedicated 4	Logging 8			
08:00	Logging 8	Logging 8			
09:00	Logging 8	Dedicated 4			
10:00	Logging 6	Dedicated 5			
11:00	Dedicated 3	Dedicated 4			
12:00	Dedicated 5	Dedicated 5			

An "OK" button is located at the bottom right of the window.

Time

This field specifies the start time for tape change operations, valid entries are 00:00 – 23:59.

VCR Bank

Selecting a VCR Bank field enables display of a list of the currently defined banks. The order in which these banks are displayed within the schedule is the order in which tape change operations will occur.

GENERAL SETTINGS, CONT.

Late Rewind Management

VCRs, which are being reviewed during tape change operations, will be bypassed automatically, i.e. they will not be rewind/ejected. This check box enables late rewind management functionality so at the end of review it automatically initiates a rewind/eject sequence on the VCR. The operator who was previously reviewing the VCR will receive an on-screen message as to the status of the late rewind operation.

If this check box is disabled, VCRs that were bypassed during tape change operations will return to the record mode when the review operation terminates.

VCR Management

VCR Alarm Group

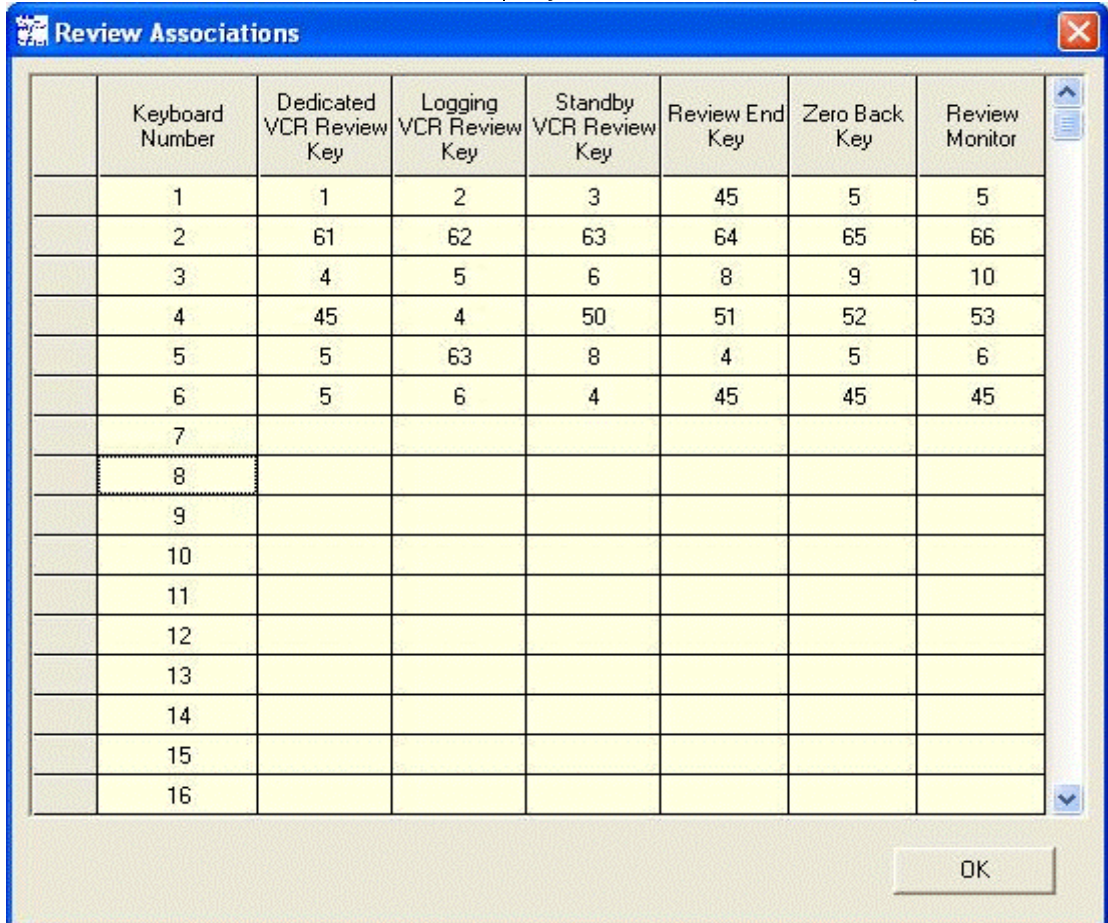
VCR management provides enhanced alarm handling capabilities for dedicated, standby and logging VCRs. An alarm will only be generated when a VCR ceases to record for reasons outside of system control, i.e. an alarm will occur due to a tape jam, but not if the VCR is stopped for review or tape change. When an alarm does occur, the alarm group is definable through this field allowing VCR alarms to be directed to specific monitors.

VCR Management

GENERAL
SETTINGS,
CONT.

Review Associations

Selecting the Review Associations 'Display' tab displays the following properties page. These fields define the interaction between keyboards, keys and monitors for the review process.



Keyboard Number	Dedicated VCR Review Key	Logging VCR Review Key	Standby VCR Review Key	Review End Key	Zero Back Key	Review Monitor
1	1	2	3	45	5	5
2	61	62	63	64	65	66
3	4	5	6	8	9	10
4	45	4	50	51	52	53
5	5	63	8	4	5	6
6	5	6	4	45	45	45
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

OK

Keyboard Number

This field identifies each keyboard and is for reference purposes only, it is NOT a changeable field.

Dedicated VCR Review Key

For each keyboard the key used to initiate review of dedicated VCRs is definable. Placing an entry in this field will automatically add entries to the 'Intercept Keyboard Keys' table.

Logging VCR Review Key

For each keyboard the key used to initiate review of logging VCRs is definable. Placing an entry in this field will automatically add entries to the 'Intercept Keyboard Keys' table.

Standby VCR Review Key

The key used to initiate review of standby VCRs is definable for each keyboard. Placing an entry in this field automatically adds entries to the 'Intercept Keyboard Keys' table.

VCR Management

GENERAL SETTINGS, CONT.

Review Associations, Cont.

Review End Key

The Review End key terminates the review process placing the reviewed VCR back into record mode and reverting the review monitor to its previous selection. The key used to end review of VCRs is definable for each keyboard. Placing an entry in this field automatically adds entries to the 'Intercept Keyboard Keys' table.

Zero Back Key

The key used to initiate the 'Zero Back' function is definable for each keyboard. Placing an entry in this field automatically adds entries to the 'Intercept Keyboard Keys' table.

Review Monitor

This field defines which monitor will be used for the review of dedicated and standby VCRs (logging VCRs are reviewed directly on the monitors they record). The review monitor will also be used for the display of tape change related messaging.

Enable Zero Back Control

The 'Zero Back' functionality provides a convenient means of locating the position on tape where recording was terminated due to a review taking place. When zero back control is enabled the tape counter is zeroed at the moment of review initiation. When the review is complete, but prior to selecting the 'Review End' key, the operator presses the 'Zero Back' key to initiate an automatic search for the zero position on the tape. Once the zero position has been reached, the operator presses the 'Review End' key to terminate the review. **NOTE:** not all VCRs support zero back functionality.

Zero Back Function Number

This field allows for customisation of the function sent to the VCR control card (e.g. RD490, RD494) to initiate the zero back function. The range of allowable values is 1 – 16, the default value is 13.

Counter Zero Function Number

This field allows for customisation of the function sent to the VCR control card (e.g. RD490, RD494) to initiate the counter zero function. The range of allowable values is 1 – 16, the default value is 14.

VCR Management		
Rewind Settings	Tape Change Mode - Stop/Rewind/Eject or Stop/Eject	These buttons allow selection of the Tape change mode, users can choose whether to rewind tapes in the VCRs or simply eject.
	Rewind Time	In the Stop/Rewind/Eject mode of operation this field defines the time period (in seconds) required to fully rewind the tapes. Valid values are 10 – 999 seconds.
	Inter-bank Delay	During automatic Tape change operations this field specifies the time period (in seconds) which should elapse from the sensing of record status on the current bank of VCRs to the beginning of Tape change operations on the next bank. Valid values are 5 – 99 seconds.

Note

Live update is not supported for VCR Management Tab.

Notes:

SECTION 18: LOGON PASSWORD

18.1 LOGON PASSWORD

If Passwords for Distributor and Client have been set in the Title & Registration section, SetMax will require one of these passwords to be entered before displaying the system configuration. If the Client Password is entered when running SetMax, then Client level access is granted and a Logon tab will be displayed.

By clicking the LOGON tab, you can enter the Distributor Passcode to give full distributor level access. Users with Distributor level access can modify the Client Passcode, the Client Name, and the Site Name in the Title and Registration page.

Notes:

SECTION 19: ETHERNET PORTS

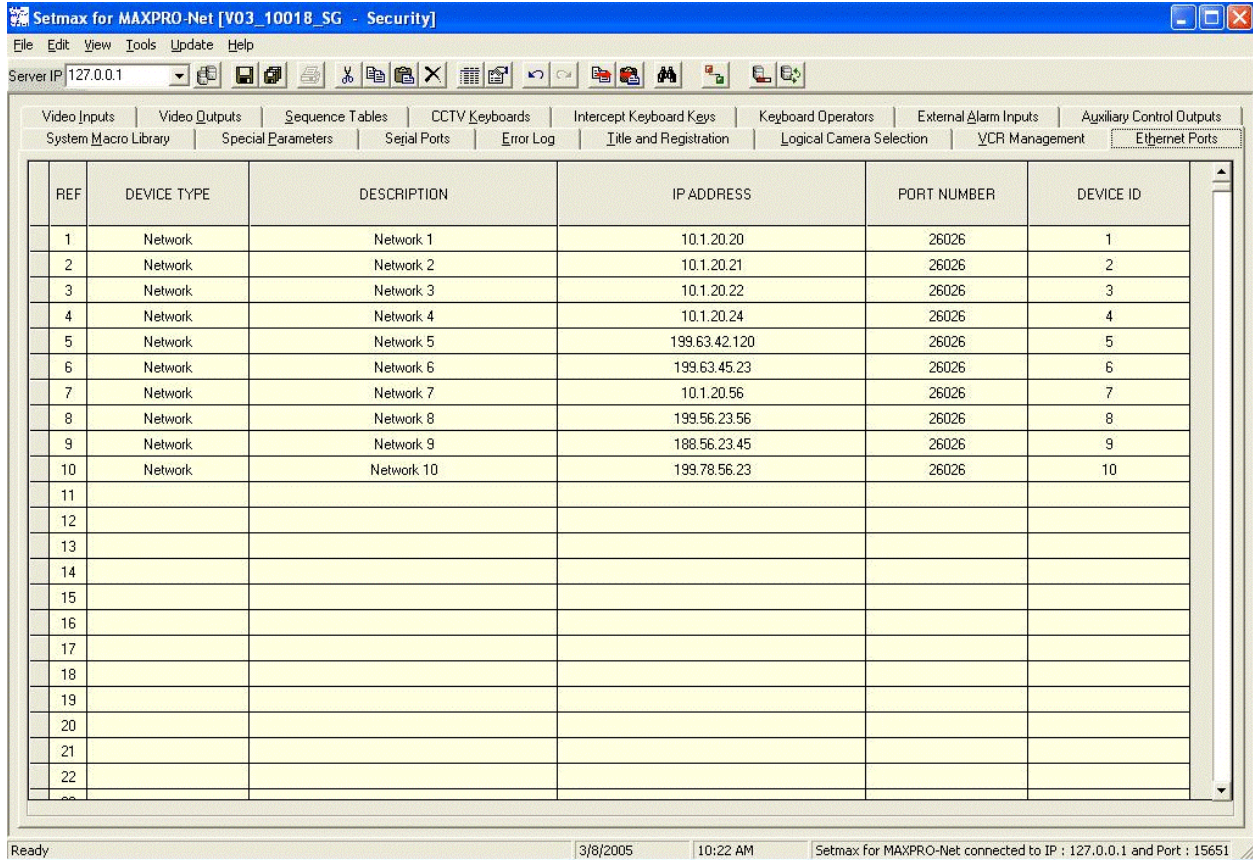
19.1 DEFINING ETHERNET PORTS

The MAXPRO-Net Server uses ethernet ports to communicate with other MAXPRO-Net Node over LAN. Left mouse click on the Ethernet Ports tab to edit the properties for each ethernet communication port. The details of each of the properties are described below.

Important Note: If two MAXPRO-Net servers have to communicate over LAN, the ethernet port configuration has to be done in any one of the MAXPRO-Net Node only.

19.1 DEFINING ETHERNET PORTS, CONTINUED

Selection of the **Ethernet Ports** tab allows the user to edit the properties/configuration for each device/port. The details for each property are described below.



The screenshot displays the 'Setmax for MAXPRO-Net [V03_10018_SG - Security]' application window. The 'Ethernet Ports' tab is selected in the top navigation bar. Below the navigation bar is a toolbar with various icons. The main area contains a table with the following data:

REF	DEVICE TYPE	DESCRIPTION	IP ADDRESS	PORT NUMBER	DEVICE ID
1	Network	Network 1	10.1.20.20	26026	1
2	Network	Network 2	10.1.20.21	26026	2
3	Network	Network 3	10.1.20.22	26026	3
4	Network	Network 4	10.1.20.24	26026	4
5	Network	Network 5	199.63.42.120	26026	5
6	Network	Network 6	199.63.45.23	26026	6
7	Network	Network 7	10.1.20.56	26026	7
8	Network	Network 8	199.56.23.56	26026	8
9	Network	Network 9	188.56.23.45	26026	9
10	Network	Network 10	199.78.56.23	26026	10
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

The status bar at the bottom of the window shows 'Ready', the date '3/8/2005', the time '10:22 AM', and the connection status 'Setmax for MAXPRO-Net connected to IP : 127.0.0.1 and Port : 15651'.

Ethernet Ports	
Ref	The Ethernet Port number is purely a reference number used to distinguish one port from another. There can be up to 100 ports defined in a single system. The reference number field is NOT a changeable field.
Device Type	Only Network device type is configurable.
Description	This is an 18-character description used to identify the selected Ethernet communication port. It is used for reference only. Enter up to 18 characters in this field and press Enter on the keyboard.
IP Address	It is a unique address of another MAXPRO-Net Server to be networked over Ethernet (LAN).
Port Number	This refers to the ethernet port number on which two MAXPRO-Net servers communicate. Note: Port Number should be 26026 by default. [This is the Ethernet port number configured in the Special Param of the networked MAXPRO-Net].
Device ID	Device ID is a Node ID of the networked MAXPRO-Net Server (Configured in IP Address column).

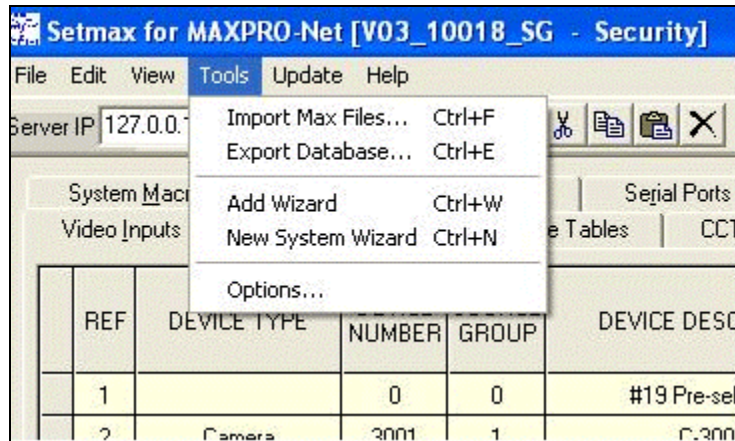
Notes:

SECTION 20: EXPORTING THE DATABASE FILES

20.1 PROCEDURE TO EXPORT THE DATABASE FILES

The database files (tabs) in the SetMax configurator can be exported for safe keeping.
Note: SetMax must be running and the site configuration (e.g: title.max) must be open.

1. Left mouse click on Tools on the main menu then Export Database.

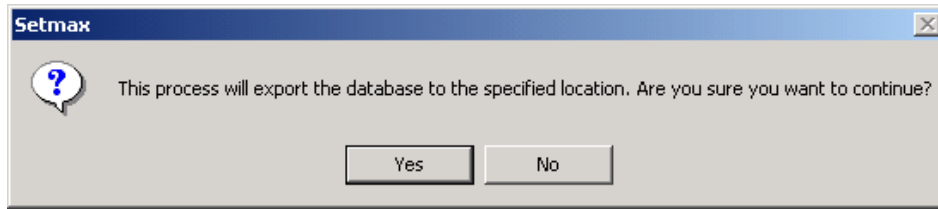


The Browse for Folder window is displayed.



20.1 PROCEDURE TO EXPORT THE DATABASE FILES, CONTINUED

2. Select the destination directory and folder and then click on OK.



3. Click on Yes to continue or click on No to cancel the export operation.

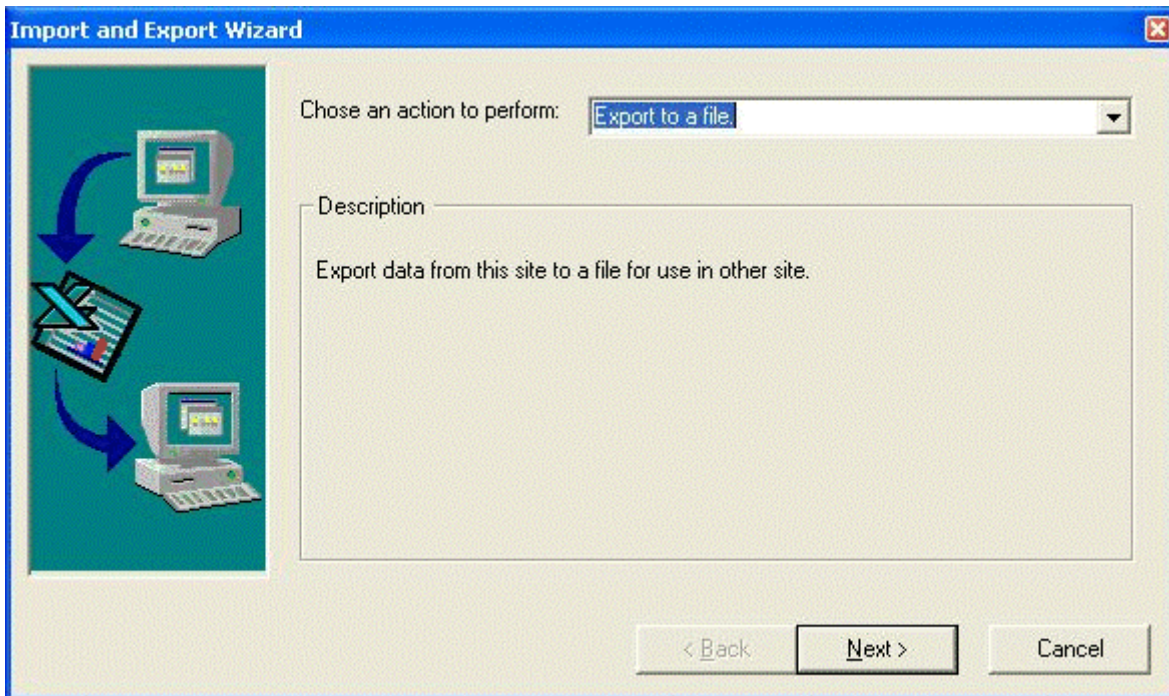
SECTION 21: EXPORTING AND IMPORTING FILES IN EXCEL

21.1 EXPORTING FILE TO MICROSOFT EXCEL SPREADSHEET

Each file (tab) in the Setmax configurator can be exported to a Microsoft Excel Spreadsheet if the IMPORT and EXPORT menu item on the FILE menu is not grayed out (disabled).

Note: SetMax must be running and the site configuration (e.g: title. Max) must be open.

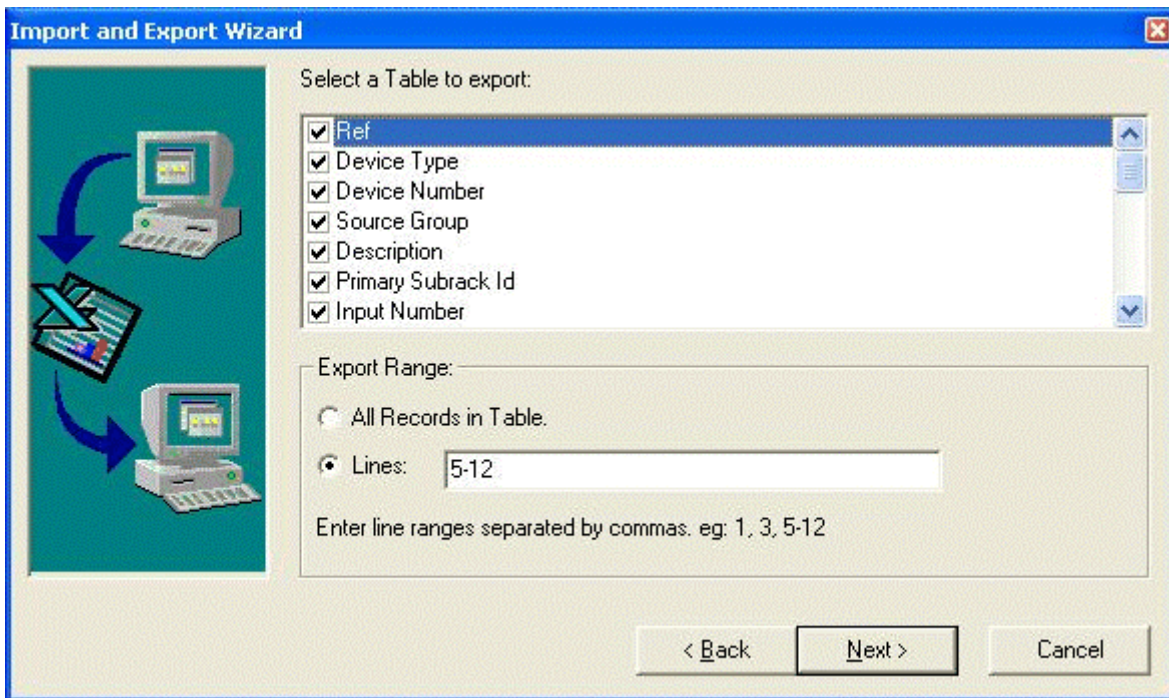
1. Select the tab of the data you want to export. For example, to export the video inputs file to an Excel spreadsheet, select the Video Inputs tab.
2. Left mouse click on File on the main menu
3. Left mouse click on Import and Export.



4. In the chose an action to perform field, select Export to a file. Left mouse click on the down arrow beside the field to view the options.
5. Left mouse click on the Next> button.

Note: To cancel an operation, left mouse click on the Cancel button. To go back to a previous menu or screen, left mouse click on the <Back button.

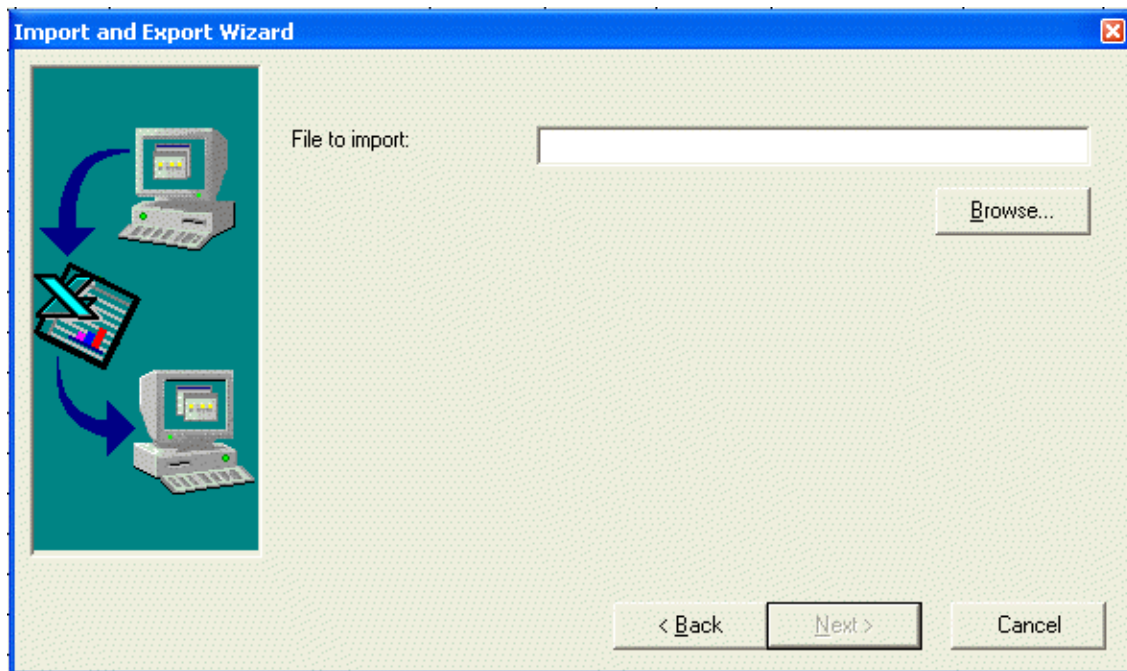
21.1 EXPORTING FILE TO MICROSOFT EXCEL SPREADSHEET, CONTINUED



6. By default, all the fields of the table are selected for export as shown above. To deselect a field, left mouse click on the check box beside the field. When a box is deselected, it does not contain a check mark. To view more fields, use the scroll bar on the right side of the window.
7. Export Range:

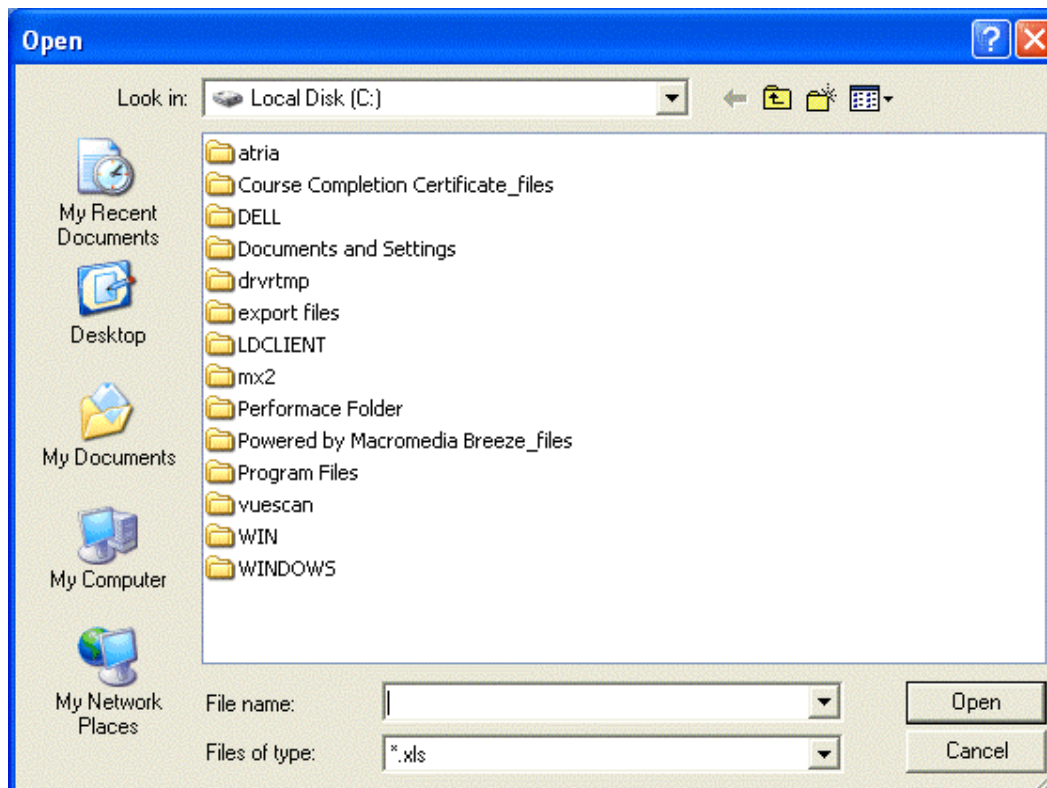
You can either export all the records in the table or selected lines of data. Left mouse click on the radio button beside the desired selection. If you only want certain lines, left mouse click on the Lines: radio button then insert the desired lines. Separate consecutive lines by dashes and nonconsecutive lines with commas as shown in the above example.
8. Left mouse click on the Next>button.

21.1 EXPORING FILE TO MICROSOFT EXCEL SPREADSHEET, CONTINUED



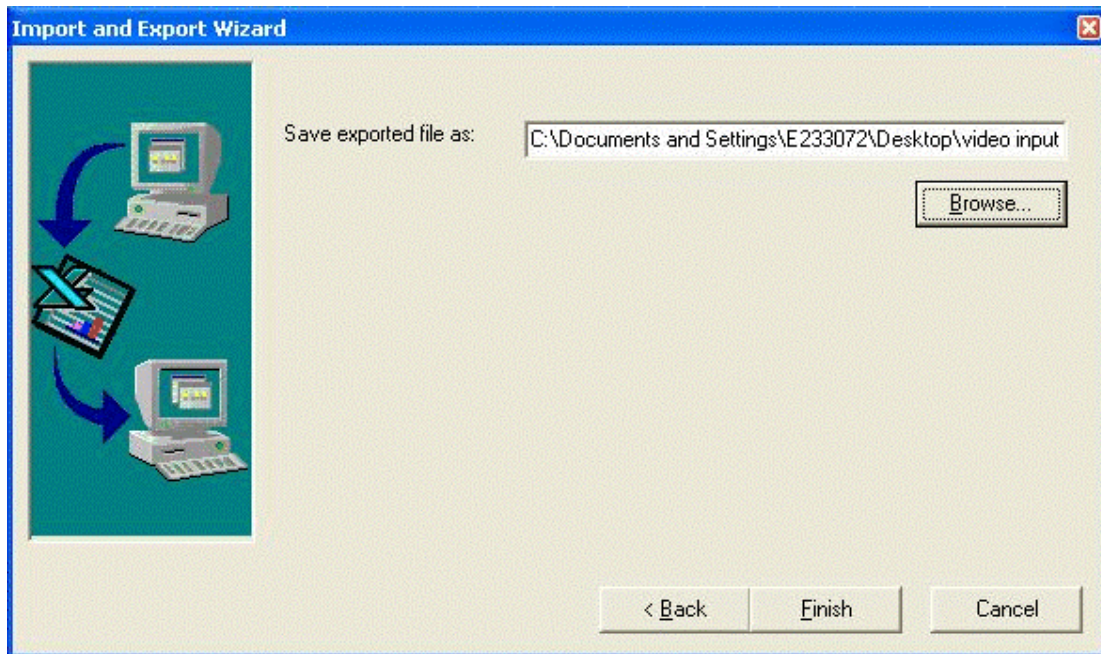
9. Enter the filename for the data.

Note: The file will be saved in the root directory on the C: drive unless another location is specified. To select a file location, left mouse click on the Browse button.



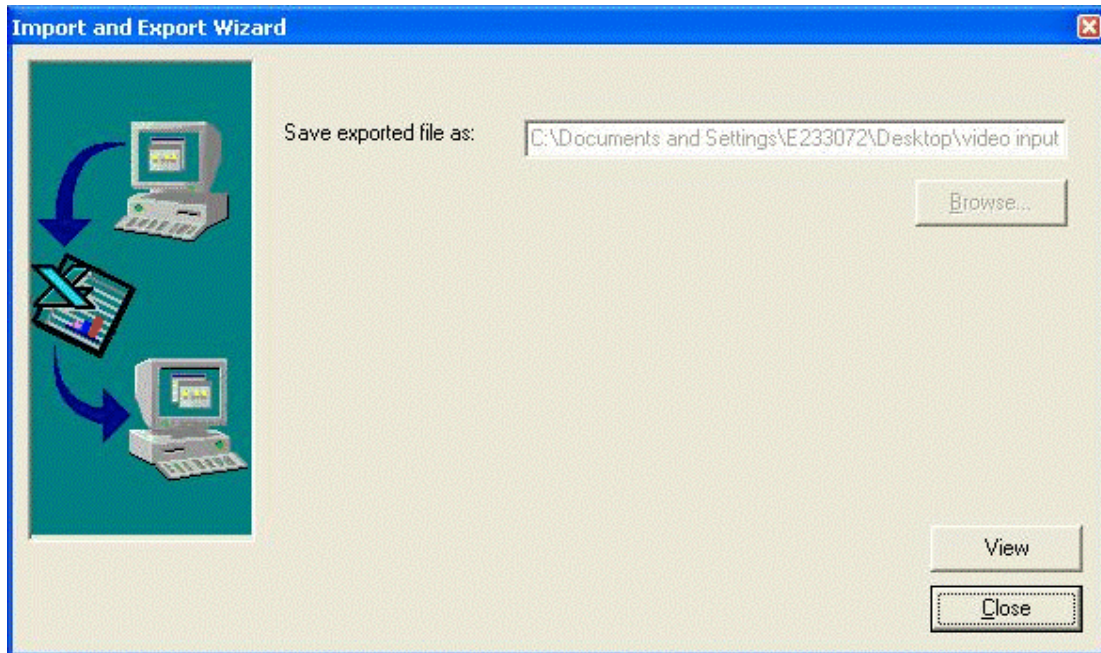
21.1 EXPORTING FILE TO MICROSOFT EXCEL SPREADSHEET, CONTINUED

- a. To select a different drive, left mouse click on the down arrow in the Save in: field and select from the available drives. To select a folder on a drive, left mouse click twice on the folder to open it.
- b. Enter the file name in the File name: field. The default file type is *.xls, which is a Microsoft Excel file. To overwrite an existing file, left mouse click on the existing file to select it for the file name.
- c. Left mouse click on the Save button to export the data into the designated file. An example of the displayed window is shown below. If the correct path is not displayed in the Save exported file as: field, left mouse click on the Browse button to select a different path.



- d. Left mouse click on Finish. The file is now stored on the selected drive in the selected directory. This file can be used as a backup file or can be used for import to another site.

21.1 EXPORTING FILE TO MICROSOFT EXCEL SPREADSHEET, CONTINUED



- e. Click View to view the imported excel data. Click Close.

21.2 IMPORTING FILE FROM MICROSOFT EXCEL SPREADSHEET

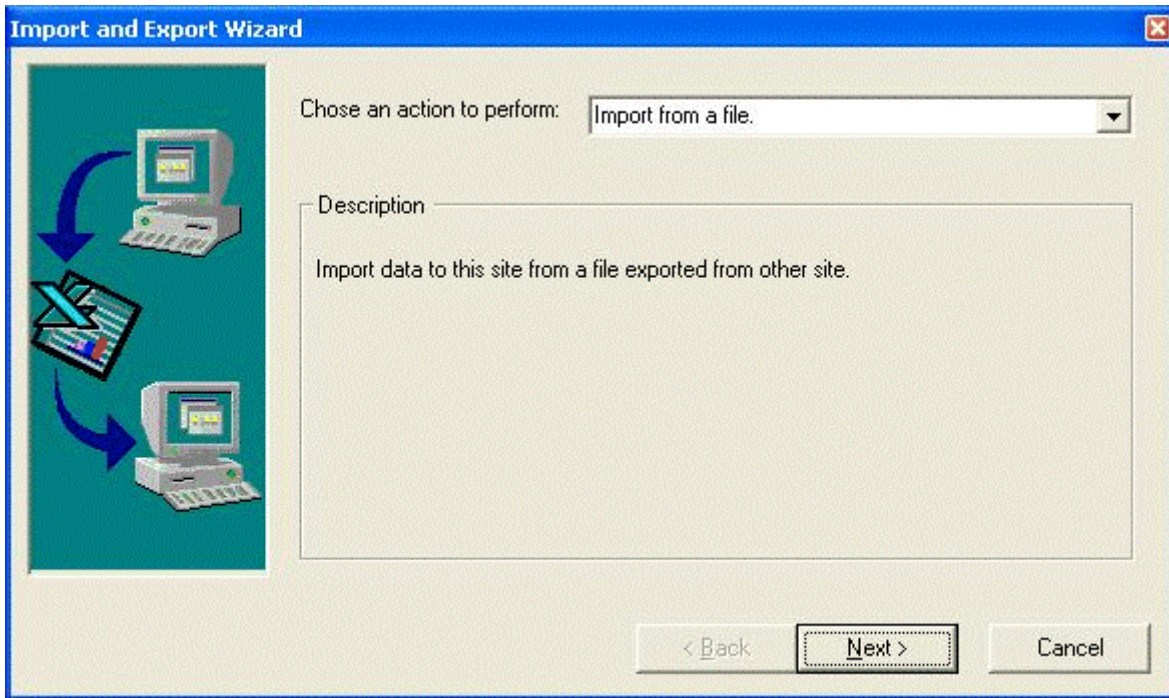
A Microsoft Excel spreadsheet can be imported into a file in Setmax. The fields in the spreadsheet can be mapped to the fields in the Setmax file.

Note: Setmax must be running and the site configuration (e.g: title. Max) must be open.

Caution: The Microsoft Excel spreadsheet must contain a REF column as the left most column (A) with line numbers for which lines to put the inputs or the Import will fail.

1. Select the tab of the file you want to import data. For example, to import data into the video inputs file from an Excel spreadsheet, select the Video Inputs tab.
2. Left mouse click on File on the main menu.
3. Left mouse click on Import and Export.

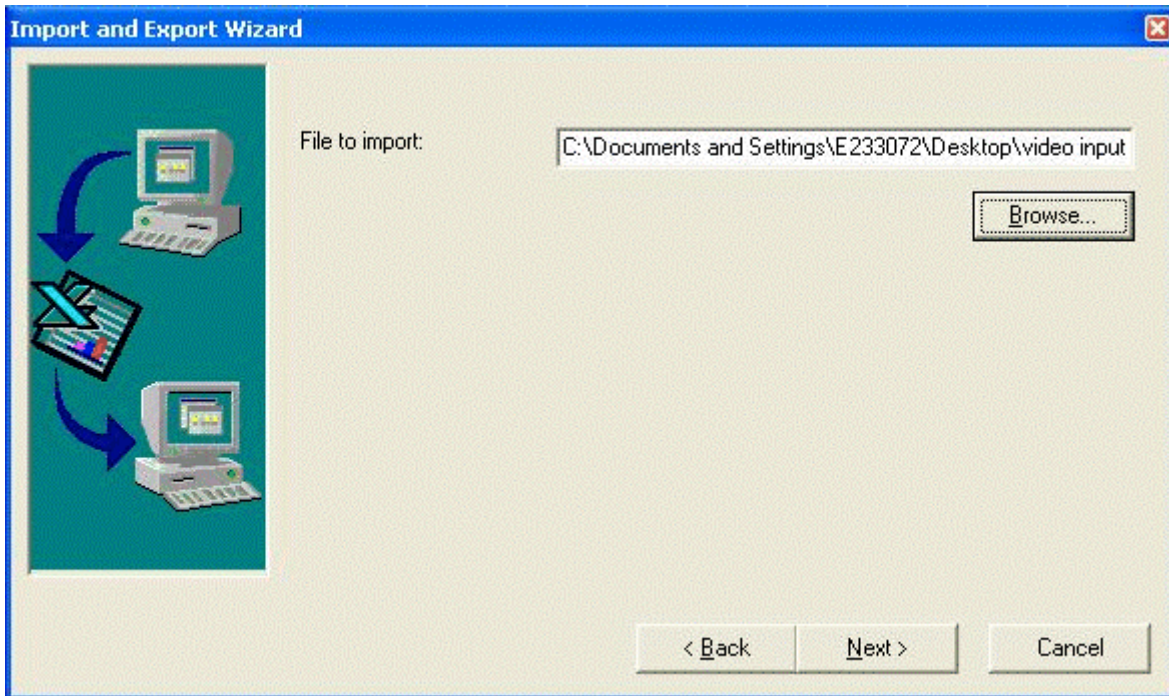
21.2 IMPORTING FILE FROM MICROSOFT EXCEL SPREADSHEET, CONTINUED



4. In the Chose an action to perform field, select Import from a file. Left mouse click on the down arrow beside the field to view the options.
5. Left mouse click on the Next>button.

Note: To cancel the operation, left mouse click on the Cancel button. To go back to a previous menu or screen, left mouse click on the <Back button.

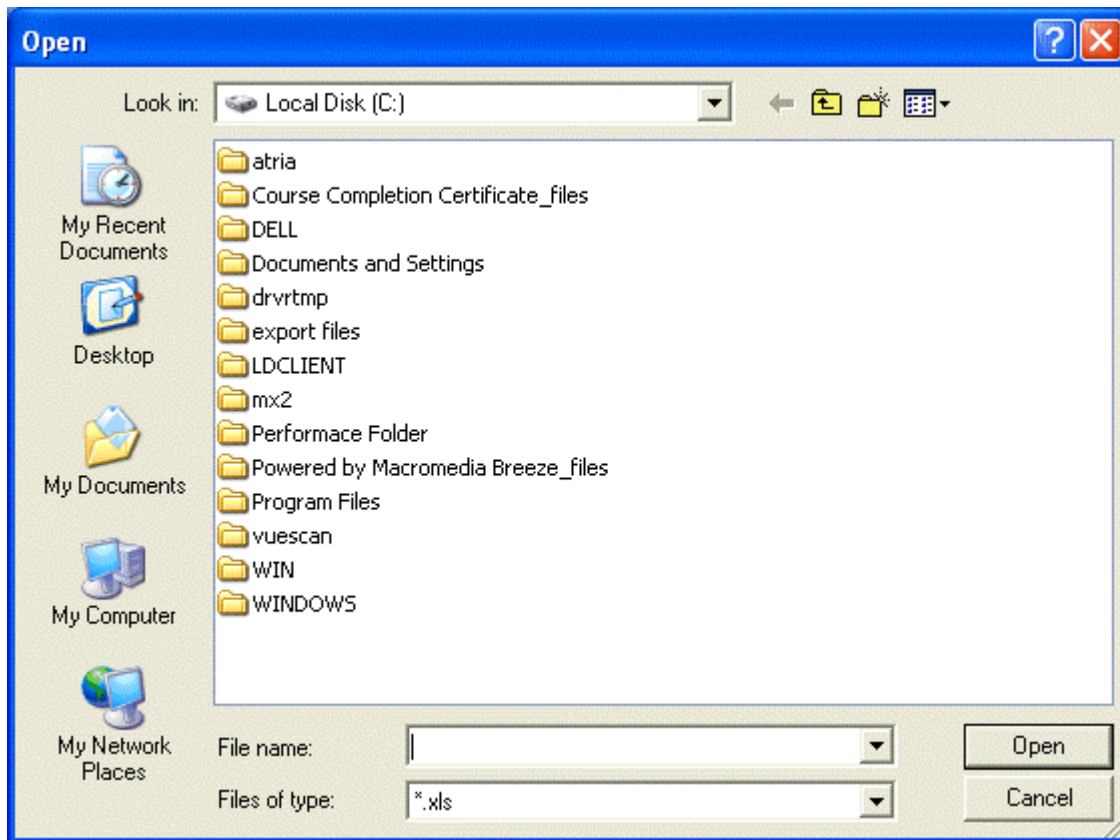
21.2 IMPORTING FILE FROM MICROSOFT EXCEL SPREADSHEET, CONTINUED



6. Enter the filename of the file to import.

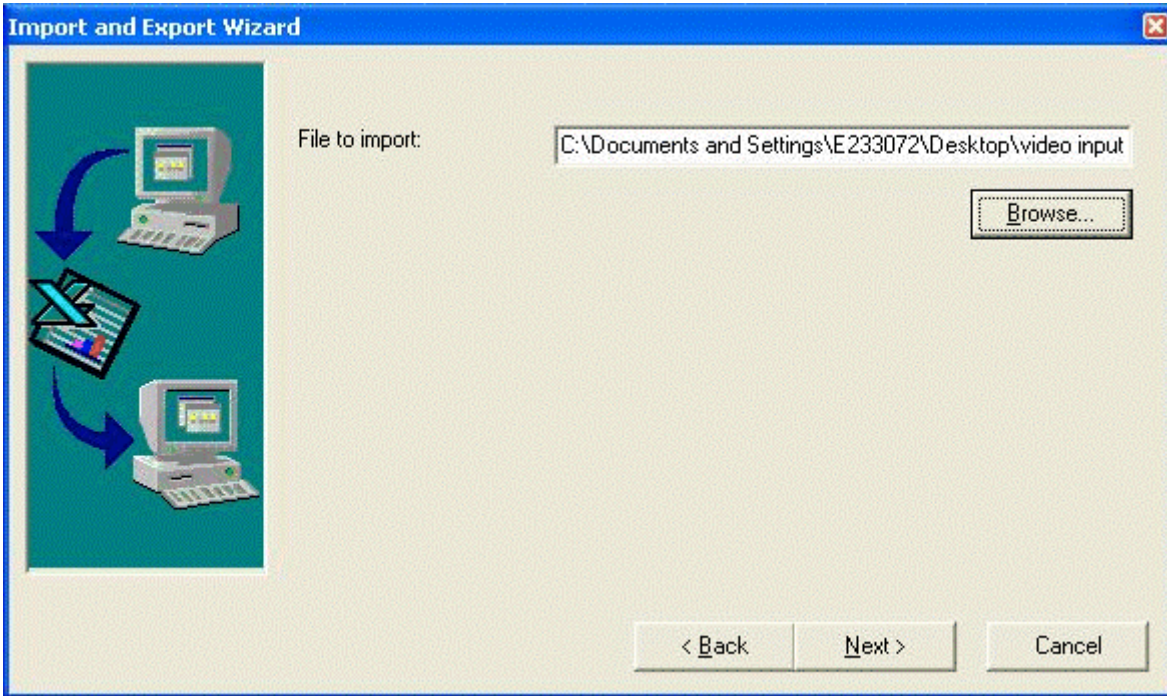
Note: The software initially looks for the file to import from the root directory on the C: drive unless another location is specified. To select a file location, left mouse click on the Browse button.

21.2 IMPORTING FILE FROM MICROSOFT EXCEL SPREADSHEET, CONTINUED



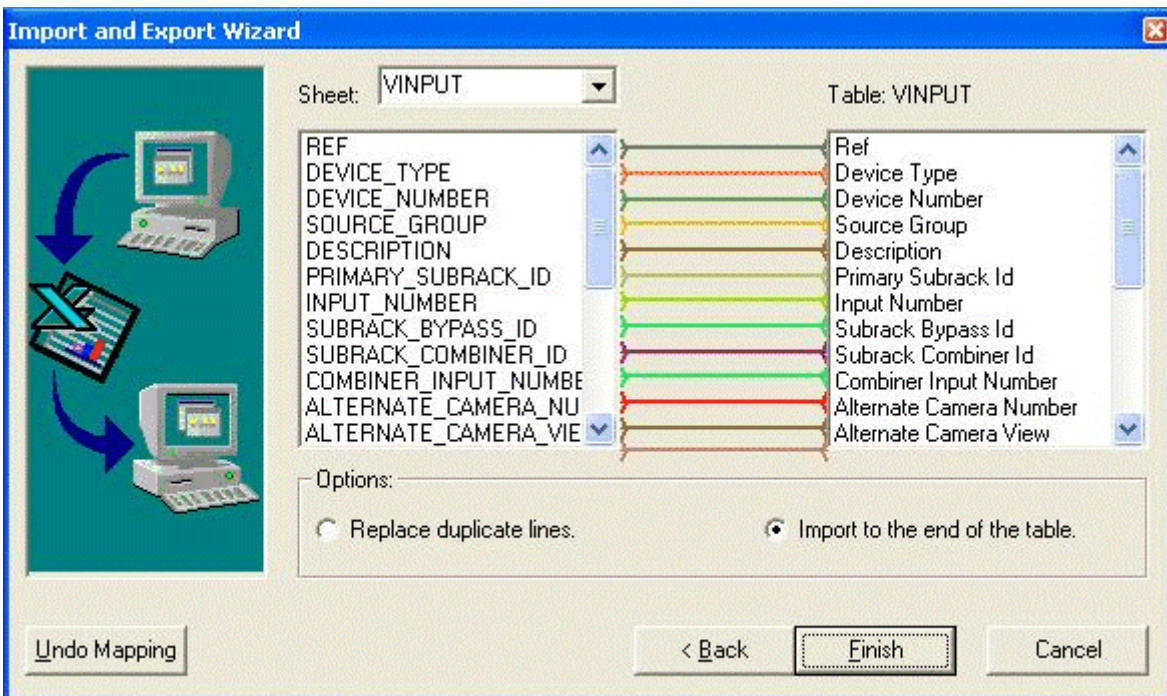
- a. To select a different drive, left mouse click on the down arrow in the Look in: field and select from the available drives. To select a folder, left mouse click on the folder twice to open the folder.
- b. Enter the file name in the File name: field or select an existing file by left mouse clicking on it. The default file type is *.xls, which is a Microsoft Excel.
- c. Left mouse click on the Open button to import the data into the Setmax table. An example of the displayed window is shown below.

21.2 IMPORTING FILE FROM MICROSOFT EXCEL SPREADSHEET, CONTINUED



7. Left mouse click on the Next> button.

Note: If the correct file to import is not displayed in the field, left mouse click on the <Browse button to reselect the file.

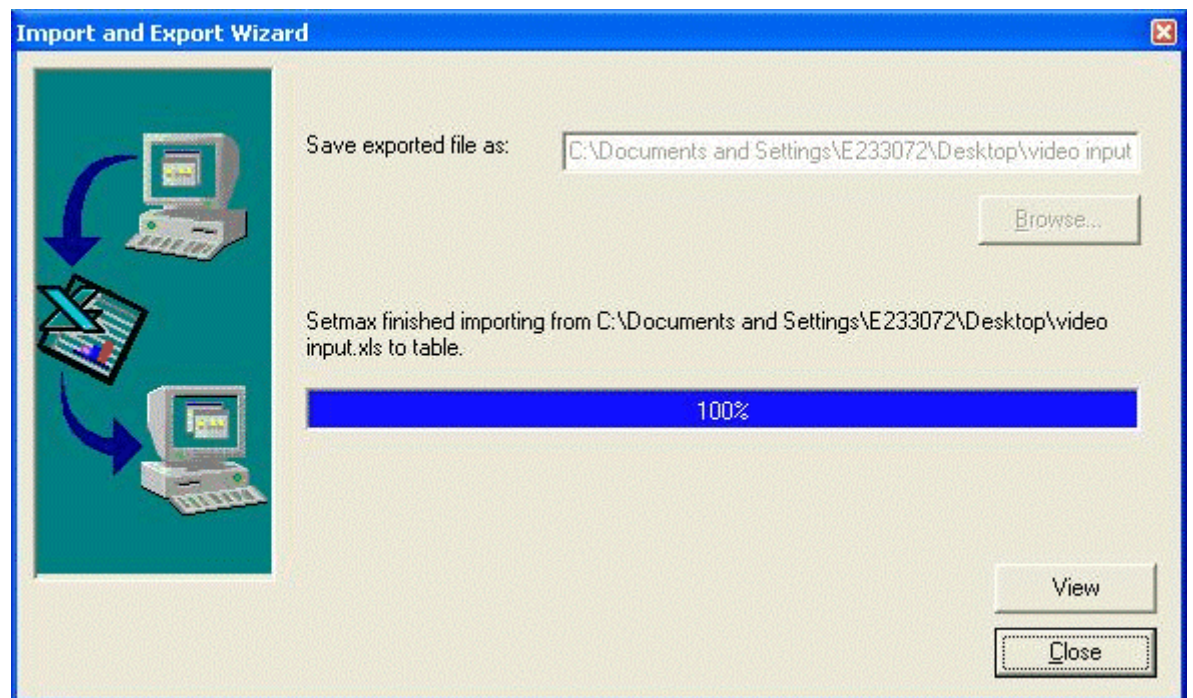


21.2 IMPORTING FILE FROM MICROSOFT EXCEL SPREADSHEET, CONTINUED

8. A window opens that shows the fields in the Excel spreadsheet (Sheet:) and the fields in the Video Input Table. If the spreadsheet and the table contain the same fields, Setmax automatically maps the fields in the spreadsheet to the fields in the Table. If the spreadsheet does not contain similar fields, the user must map the fields in the spreadsheet to fields in the table.
 - a. To unmap the fields, left mouse click on the Undo Mapping button.
 - b. To map the fields, left mouse click and hold the button down on the field in the sheet and drag the mouse pointer to a field in the table then release the mouse button. The system draws a line between the two fields.
9. In the Options field, select replace duplicate lines or import to the end of the table by left mouse clicking on the radio button beside the option.

If you select, Replace duplicate lines, the lines (rows) in the sheet will replace the lines in the table. This option can be used to overwrite an existing table.

If you select, Import to the end of the table, all the lines (rows) in the spreadsheet will be added at the end if the existing table. This option can be used to add additional devices.
10. Left mouse click on Finish. The selected data from the Excel spreadsheet is imported into the selected table in Setmax.



11. Click View to view the imported excel data. Click Close.

Notes:

Honeywell Video Systems (Head Office)

2700 Blankenbaker Pkwy, Suite 150

Louisville, KY 40299

www.honeywellvideo.com

TEL +1-800-796-2288

Honeywell Security Australia Pty Ltd.

Unit 5, Riverside Centre, 24-28 River Road West

Parramatta, NSW 2150, Australia

www.ademco.com.au

TEL +61-2-8837-9300

Honeywell Security Asia Pacific

Flat A, 16/F, CDW Building, 388 Castle Peak Road

Tsuen Wan, N.T., Hong Kong

www.security.honeywell.com/hk

TEL +852-2405-2323

Honeywell Security France

Parc Gutenberg, 8, Voie La Cardon

91120, Palaiseau, France

www.honeywell-security.fr

TEL +33-01-64-53-80-40

Honeywell Security Italia SpA

Via della Resistenza 53/59, 20090 Buccinasco

Milan, Italy

www.security.honeywell.com/it

TEL +39-02-457-1791

Honeywell Security Espana

Calle Vivero, 5, 28040

Madrid, Spain

www.security.honeywell.com/es

TEL +34-91-102-5900

Honeywell Video Systems Northern Europe

Network 121

1446 TR Purmerend, Netherlands

www.SecurityHouse.nl

TEL +31-299-410-200

Honeywell Video Systems UK Ltd.

Aston Fields Road, Whitehouse Ind Est

Runcorn, Cheshire, WA7 3DL, UK

www.honeywellvideo.com

TEL +44-1928-754-030

Honeywell Security South Africa

Unit 6 Galaxy Park, Galaxy Avenue, Linbro

Business Park

P.O. Box 59904, Kengray, 2100, South Africa

www.honeywell.co.za

TEL +27-11-574-2500

Honeywell Security Germany

Großenbaumer Weg 8

40472 Düsseldorf, Germany

www.honeywell-security.de

TEL +49-211-41-50-90

Honeywell Security Poland

Chmielewskiego 22a, 70-028

Szczecin, Polska

www.ultrak.pl

TEL +48-91-485-40-60

Honeywell Security Czech Republic

Havránkova 33, Brno

Dolní Heršpice, 619 00, Czech Republic

www.olympo.cz

TEL +420-543-558-111

Honeywell Security Slovakia Republic

Vajnorská 142, 83104 Bratislava

Slovakia

www.olympo.sk

TEL +421-2-444-54-660

Honeywell

Video Systems

www.honeywellvideo.com

1-800-796-CCTV (North America only)

© 2006 Honeywell International Inc.

All rights reserved. No part of this publication may be reproduced by any means without written permission from Honeywell Video Systems. The information in this publication is believed to be accurate in all respects. However, Honeywell Video Systems cannot assume responsibility for any consequences resulting from the use thereof. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes.