



C1678M (7/05)

Endura™

Installation and Programming Checklist

This checklist is designed for Endura system administrators. Use this document to install and set up your Endura system. The instructions are divided into the following topics:

! WARNING: After the hardware is installed, do not turn on any devices until you are instructed to do so in this checklist.

- Getting Started
- SM5000 Setup
- WS5050 Setup
- Device Setup
- Backing Up the Database
- Optional Device Setup
- Advanced Settings

Unless otherwise specified, documents mentioned in this checklist are located on the Endura Resource CD.

Getting Started

- ☐ 1. Verify that your network meets minimum system requirements for Endura. For instructions and information on setting up an Endura network, refer to the Endura Network Design Guide (C1640M).
- ☐ 2. Determine what your network switch plan will be, and identify static IP addresses for the SM5000 and VLANs. Refer to the EndurAdmin Tool manual for more information (C1675M).
- ☐ 3. Verify that Endura devices have Ethernet connections.
- ☐ 4. Set up your network.
 - ☐ a. **DHCP server status:** Determine if the SM5000 will be the DHCP server. If not, you must disable DHCP before adding an SM5000 to an existing network.

! WARNING: You must start the DHCP server first so that it can issue IP addresses to all other devices in the Endura system.

- ☐ b. **NTP server status:** If the SM5000 is not the NTP server, provide the IP address for the server.
- ☐ c. **Multiple VLANs:** If there are several VLANs in the Endura system, provide the IP address for each A, B, C, and Core block in the system.

SM5000 Setup

- ☐ 1. Turn on the SM5000 and wait until all LED lights are lit.
- ☐ 2. Set up the SM5000 system manager (one or more). For complete instructions, refer to the EndurAdmin Tool manual (C1675M). For information on using a secondary SM5000, refer to the SM5000 installation manual (C1623M). Be prepared with the network information you set up in step 4, *Getting Started*.
- ☐ 3. From a laptop or a WS5050 workstation that is attached to the Endura network, use Internet Explorer to connect to the following EndurAdmin site: <https://192.168.5.10:10000>. From the EndurAdmin main menu, click the System Manager Setup Wizard to configure the following settings for each SM. Refer to the EndurAdmin Tool operation manual (C1675M).
 - ☐ • Network settings
 - ☐ • Optional services
 - ☐ • Recording settings
 - ☐ • Device advertisement settings
 - ☐ • System date and time
- ☐ 4. Log out of EndurAdmin when you are done.
- ☐ 5. Turn off the SM5000 by pressing the power button once. When the SM5000 has turned off completely, turn it back on. After all LEDs on the SM5000 are lit, wait another five minutes to ensure that the NTP server has started.

WS5050 Setup

NOTE: You must be logged on to Windows XP in administrator mode so that you can access Endura utilities to troubleshoot any issues that arise.

- ☐ 1. Turn on the workstation and confirm that it has an IP address.
- ☐ 2. Synchronize the time on the workstation with the time listed in the primary SM5000. For example, on a Windows® XP workstation follow these instructions:
 - ☐ a. From the Windows Start menu open the Control Panel and select Date and Time.
 - ☐ b. Open the Internet Time tab.
 - ☐ c. In the Server field, enter the IP address for the primary SM5000.
 - ☐ d. Click Update Now, and confirm that the time updates.
 - ☐ e. Click OK to save the setting.
- ☐ 3. Connect any remaining WS5050 workstations.

Device Setup

- ☐ 1. Install and turn on video encoders. Endura operates with several types of encoders. Refer to the installation manual for your encoder. Use the WS5000 software from a WS5050 workstation to verify that the encoders are on line. Use the Endura Utilities to troubleshoot missing devices. Refer to the Endura utilities installation and operation manual (C1672M).
- ☐ 2. Physically connect alarms, relays, and audio.
- ☐ 3. Install and turn on video decoders. Refer to the NET5301R installation manual (C602M). Use the WS5000 software from a WS5050 workstation to verify that the decoders are on line. Use the Endura utilities to troubleshoot missing devices. Refer to the Endura Utilities installation and operation manual (C1672M).
- ☐ 4. Install and turn on monitors. Endura works with several types of monitors. Install monitors based on the manufacturer's guidelines.
- ☐ 5. Connect NVR network video recorders. Install hard disk drives in the correct drive bays (slots 1–12). Disk drives are preconfigured for specific slots. If you install them in the correct order, no additional configuration is required. Otherwise, you must configure each of the hard disk drives for their respective slots, which can take several hours. Refer to the NVR5100 Series installation manual (C1621M). Use the WS5000 software from a WS5050 workstation to verify that the recorders are on line. Verify that the harddrive LEDs are green. Use the Endura Utilities to troubleshoot missing devices. Refer to the Endura Utilities installation and operation manual (C1672M).
- ☐ 6. Connect storage expansion boxes. Refer to the SEB5100 Series installation manual (C1622M). Use the WS5000 software from a WS5050 workstation to verify that the SEBs are on line. Use the Endura utilities to troubleshoot missing devices. Refer to the Endura utilities installation and operation manual (C1672M).

Backing Up the Database

Once you have completed the previous steps, create a backup of your database. If you have optional devices to set up, back up the database after you complete those steps. Refer to the EndurAdmin Tool manual for more information (C1675M).

TIP: Always back up the database after you make changes to the Endura system configuration. Changes that warrant a new backup include adding or removing devices, reconfiguring any device included in the system, or upgrading the operating system or other software on workstations.

Optional Device Setup

- ☐ 1. Use WS5000 advanced system software on a WS5050 workstation to configure the following optional settings. Refer to the WS5050 operation manual for more information (C1624M). Remember to back up the database after you add or reconfigure additional devices.
 - ☐ • **Encoders:**
 - Assign name and location.
 - Enable alarms and relays.
 - Change serial port settings if necessary.
 - ☐ • **Cameras:**
 - Assign name and location.
 - Assign camera number.
 - Select camera type.
 - Select serial communication type.
 - Enable or disable motion.
 - Enable or disable audio.
 - Assign camera groups.
 - Verify default configuration settings or modify as needed.
 - Configure motion zone settings for shape and sensitivity, and set motion alarms.
 - ☐ • **Decoders:**
 - Assign name and location.
 - Select display language (this option might not be available).
 - Enable alarms and relays.
 - Change serial port settings if necessary.
 - Set up External Monitors window if applicable.
 - ☐ • **Alarms:**
 - Assign name, location, and alarm number.
 - Set severity, polarity, and dwell time.
 - Review instructions for end-users.
 - ☐ • **Relays:**
 - Assign name and location.
 - Select relay mode.
 - Set period, on state percentage, and number of pulses.
 - ☐ • **Monitors:**
 - Assign name, location, and monitor number.
 - Enable or disable audio service.
 - Adjust display settings if necessary.
 - ☐ • **NVRs:**
 - Assign name and location.
 - Set desired storage time.
 - Enable/disable EnduraStor.
 - ☐ • **SEBs:** No configuration is needed.

Advanced Settings

Once your system has been configured and you have created a backup of your database, you can configure other advanced settings for your Endura system. Use the WS5050 workstation's advanced system software (WS5000) to create presets and patterns on cameras and to create scripts, event groups, and recording schedules.

- ☐ • **Cameras:** For each camera create presets and patterns. Refer to *Using Patterns, Presets, and Scans* in the WS5050 operation manual (C1624M).
- ☐ • **Event groups:** Create Event Groups that are used in Recording Schedule and Scripts. Refer to *Configuring Event Groups* in the WS5050 operation manual (C1624M).
- ☐ • **Recording schedules:** Create one or more recording schedules. Refer to *Setting up a Recording Schedule* in the WS5050 operation manual (C1624M).

You can also add or edit user defaults, create new roles for users, and configure individual user workstations (WS5050).

- ☐ • **Users:** Add users or change the following user defaults. Refer to *Managing Users* in the WS5050 operation manual (C1624M).
 - Enter personal information.
 - Assign a role to the newly created user.
 - Set language preference (this option might not be available).
 - Set notification preferences.
 - Set up defaults for exporting video files and snapshots.
- ☐ • **Roles:** If necessary, create new roles for existing users. Refer to *Managing Roles* in the WS5050 operation manual (C1624M).
- ☐ • **User workstations (WS5050):** Configure the following settings for individual user workstations. Refer to *Using Workspaces* in the WS5050 operation manual (C1624M).
 - Add or rename workspaces.
 - Set up the layout.
 - Select cameras and camera filters.
 - Place the navigation panel.
 - Set the volume for audio.

REVISION HISTORY

Manual #	Date	Comments
C1678M	7/05	Original version.

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