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Technical Resource Center (support for OI, PLC & IPC)  VOICE:
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EMAIL: CHSupport@bfa.ch

This center, located in Zurich, Switzerland, provides high-level quality support and product repair services for your PanelMate products. You will receive real-time technical and application support.
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In this chapter, you will learn about the PanelMate Headline Manager.
Headline Manager

The Headline Manager provides options for alerting operators to events that require attention. The Headline Manager is an application that prominently displays messages on a PanelMate ePro (models XE and SE) Operator Interface unit. These messages appear as headlines in large font, one third screen “pop-up” alert windows on the PanelMate display. The Headline Manager can also send the same messages to a remote message display unit (or other serial device) via the serial port.

The Headline Manager is an application that runs concurrently with PanelMate ePro and PC Pro runtime software. It is designed to simplify the process of sending information such as machine faults, cautions, or prompts to traditional text based message display units. Message displays are used in many applications in conjunction with Operator Interface devices, such as PanelMate, to augment the ability of the operator to respond quickly to events and alarms in the process. Since many machines are very large and operators are not always close to a PanelMate station, a message display that can be seen from far away can direct the operator to a specific part of the machine where a local PanelMate can provide additional details about the event.

In the past, developers had to create text messages within PLC memory and access those messages through add-in Basic programming modules in the PLC rack. Those modules then had to be programmed in a low level programming language to send the messages out the PLC through a serial port. Headline Manager allows the messages to be more easily configured and maintained with a spreadsheet program like Microsoft Excel. The Headline Manager configuration tool is a simple fill-in-the-blanks form that makes it easy to link the message files to PLC registers that contain pointers to the messages in the file. The PLC register value contains the number of the message to send from the ePro’s serial port to the message display unit. The same messages automatically show up on the ePro in a pop-up window using a large, easily readable font. The Headline Manager pop-up window functions very much like the PanelMate display template except that the headlines are configured once, whereas a display template would need to be placed on every page of the configuration.
PanelMate Page Data with All 3 Headlines Displayed.
Chapter 2: Getting Started With The Headline Manager

In this chapter, you will learn:
• About files used with the Headline Manager
• About the Headline Manager demo
• About installing and uninstalling the Headline Manager
Files Used With Headline Manager

There are several files that you must know about when using the Headline Manager:

- **filename.hlm** – Headline Manager runtime attribute file. This file describes the attributes for one headline. The .hlm file is created by running the Headline Manager program in configuration mode (with no file name as a command line argument).

- **Headline Manager.exe** - Headline Manager runtime and configuration program. If you execute the program with a .hlm file name as a command line argument then the Headline Manager program will execute in run mode using the named .hlm file for specifications. If there is no file name appended when executing the Headline Manager program then the program will execute in configuration mode and is used to create and/or edit .hlm files.

- **headlines.csv** – headline message file. The .csv file is a comma-separated-variable text file created using standard file editing tools such as Microsoft Excel, Notepad and WordPad. You can create a headline message file specifically for each headline or all of the headlines can share a headline message file or if the PanelMate configuration uses an External Message File then the headline message file can be the External Message File also. The format is described in Chapter 3: Using the Headline Manager in Configuration Mode.

Demo Headline Manager Files

There is a demo of the Headline Manager that is preloaded on the PanelMate ePro XE models. This demo will automatically run when you power up the PanelMate ePro XE. Once the demo is launched you can demonstrate the Headline Manager by selecting the Headline Manager button from the PanelMate ePro XE menu page (explore and have some fun). If you want to see how the Headline Manager was configured you can review the XEDemo.pps and XEdemoxxx.hlm files in more detail using the configuration software. The demo files are provided on the PanelMate Power Pro software CD (V2.1 and above). The demo files can be found under PM\Kits\Demo. The demo configuration will demonstrate the Headline Manager in addition to the three other application kits: Document Viewer, Recipe Manager and Trend Viewer. The demo files are as follows:

<table>
<thead>
<tr>
<th>File Name</th>
<th>File Path</th>
<th>File Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMStart.cmd</td>
<td>D:\</td>
<td>Startup command file</td>
</tr>
<tr>
<td>recipelist.csv</td>
<td>D:\Cfg\</td>
<td>Recipe list</td>
</tr>
<tr>
<td>XEdemo.ois</td>
<td>D:\Cfg\</td>
<td>Recipe program</td>
</tr>
<tr>
<td>XEdemo.pps</td>
<td>D:\Cfg\</td>
<td>PanelMate configuration</td>
</tr>
<tr>
<td>XEdemo.dcv</td>
<td>D:\Document Viewer\</td>
<td>Document Viewer configuration</td>
</tr>
<tr>
<td>XEdemo_home.htm</td>
<td>D:\Document Viewer\</td>
<td>Document Viewer home page</td>
</tr>
<tr>
<td>XEdemobot.hlm</td>
<td>D:\Headline Manager\</td>
<td>Headline configurations (bottom)</td>
</tr>
<tr>
<td>XEdemohl.csv</td>
<td>D:\Headline Manager\</td>
<td>Headline messages</td>
</tr>
</tbody>
</table>
These files are preloaded onto a PanelMate ePro XE into the directories listed above. The demo can be started by selecting *Start>Run PMStart* or rebooting the system.

The demo .pps file uses an OPC server (simulation driver) to simulate reading data from a PLC for the Trend Viewer and other demo pages.

### Downloading Headline Manager Files

If you are configuring the Headline Manager files on a computer different from the online unit you must copy the Headline Manager files to the application area on the target unit. You will need to copy all .hlm files and .csv files to the target unit.

**Note 1:** When you configure a .hlm file using the Headline Manager you define the path and file name of the associated .csv file. You must store the properly named .csv file in the correct location so that the Headline Manager can find the file when in run mode.

**Note 2:** When using a PanelMate ePro, it is recommended that you copy the user created .hlm and .csv files to the `D:\Headline Manager\` directory. The `D:\` partition is designated as the user area and can be written to when the unit is in Protect Mode.

### Installing Headline Manager Software

On the PanelMate ePro XE models the current Headline Manager software will be pre-installed. If you purchase the PanelMate ePro SE model or if you want to upgrade Headline Manager to a newer version then you will need to install the Headline Manager software from the PanelMate Power Pro software CD (V2.1 and higher). Note that PanelMate ePro XE or SE models have expanded storage and memory areas to support the Headline Manager and other application kits. The Headline Manager is not supported by the base PanelMate ePro models.

Once you have prepared the target unit for software downloads and have initiated the installation process, you will need to select the following items from the installation program in the sequence listed.

- Install Software
- Install PanelMate Kits
- Install Application Kits
If it is a first install then you can choose between Full, Compact or Custom installation. Selecting the Full option will result in all application kits being installed. If you select Custom then you can select the combination of kits that you want installed.

If the application kit software has already been installed you can choose between Modify, Repair and Remove. Modify will let you select the files you want to install and uninstall. Repair will replace the files already installed and Remove will uninstall all of the installed files.

The Headline Manager files are installed (default location) in a folder called:

C:\Program Files\Cutler-Hammer\PanelMate Application Kits\n
**Uninstalling Headline Manager Software**

If you are not going to use the Headline Manager software, you can uninstall the software.

On a PanelMate ePro select the following:

Start>Programs>PanelMate Software>Uninstall PanelMate Application Kits

On a PC use the Add/Remove Programs feature to remove the program. Select PanelMate Application Kits to launch the installation wizard.

In both cases, you will be presented with the choice of Modify, Repair and Remove. Select Modify and then uncheck the files you want removed or select Remove to remove all of the application kit files.
Chapter 3: Using the Headline Manager in Configuration Mode

In this chapter, you will learn:

- How to configure Headline Manager settings
- How to create Headline Manager files
- About the sample configuration file
Configuring Headline Settings (.hlm Files)

To configure headline settings you need to run the Headline Manager program in configuration mode. You can run Headline Manager program on your PanelMate ePro or on a PC. When you save the headline settings you will be saving the data in a .hlm file.

Run the Headline Manager by using the following sequence:

Start>Programs>PanelMate Software>Headline Manager>Headline Manager Config

Each headline is configured to be displayed in one of three fixed locations - top, middle and bottom. For each specified headline location a unique .hlm file will be created. Multiple .hlm files can be created for each location with different display attributes if desired. Note that if multiple headlines are defined for a single location and more than one headline is triggered to be displayed then the last one triggered will overwrite all others in the specified location.

Once you have started the Headline Manager program in the configuration mode you will see the following window with default values assigned to certain fields.

![Headline Manager Configuration Window]
If you would like to edit an existing .hlm file then select File>Open and select the desired .hlm file. When you are done with the editing process then select File>Save or File> Save As to save the new .hlm file.

Each field is described in detail below.

**Message File** – headline message file (.csv file) to be used when in run mode (include path). You must create a .csv file to store the messages that will be displayed in the headlines or sent out the serial port. If you are using an External Message File for your PanelMate configuration’s messages then you may reference the same path and file name here. You can create a different .csv file for each headline if desired. If you are configuring on your runtime system then the button (ellipsis) can be used to browse to the correct .csv path and file name.

If you are configuring a headline on a PC, remember that the path and file name entered must match the path and file name of the .csv file on the runtime system. The recommended path and file name when using PanelMate ePro is D:\Headline Manager\headlines.csv where headlines is the name you assign to the headline message file.

**DDE Link Settings**

**Note:** The PanelMate PC Pro runtime software (pmc.exe) has a built in DDE server

**Message Number Topic** – DDE topic for the headline Message Number Item. The format is applicationname|topic where applicationname is the name of the program providing the data. When using PanelMate ePro or PC Pro the applicationname is PMC. The topic is the PLC device name from the PanelMate PLC Name and Port Parameters Table. An example for this field is PMC|plc1. The applicationname and topic are separated by the “|” character. Note that this is the bar or pipe character and not a lower case letter L ( l ).

**Re-Show Message Trigger Topic** –DDE topic for the headline Re-show Message Trigger Item. The format is applicationname|topic where applicationname is the name of the program providing the data. When using PanelMate ePro or PC Pro the applicationname is PMC. The topic is typically a scratchpad variable. An example for this field is PMC|sp. The applicationname and topic are separated by the “|” character. Note that this is the bar or pipe character and not a lower case letter L ( l ).

**Message Number Item** –PLC reference containing the headline message number. When in run mode, this location will be monitored by the Headline Manager program. When the value changes the Headline Manager will display the message associated with the newly stored value. The Headline Manager will search for the message in the .csv file referenced in the Message File field above.

Note that this PLC reference must be included with data that is continuously scanned by the PanelMate software. It is recommended that the PLC reference is included in the message library or file used by the PanelMate to insure that the value is continually read. The message can simply include the referenced value.
Re-Show Message Trigger Item - PLC reference or scratchpad tagname containing the headline re-show trigger. It is recommended that a scratchpad variable be used (see Re-Show Message Trigger Topic). In run mode, when the value in the trigger location changes to 1 then the Headline Manager will display the last headline again. This trigger value is typically changed by including a PanelMate variable-sized control button defined as Normally Closed Momentary. When pressed, the button will clear the trigger value (0) and then set the trigger value (1) causing the last displayed headline to be re-displayed.

Startup Delay (sec) – time in seconds that the Headline Manager program waits before it tries to establish a DDE link with the program referenced in the DDE topic. This delay begins after the Headline Manager program is fully initialized and allows time for the program to be fully up and operational before a link is attempted. The default value is 5 seconds.

If the Startup Delay time is not long enough an error message will be displayed at bootup that says “DDE Link not available”. If you receive this error you will need to reconfigure the .hlm file with a longer Startup Delay time.

The “sleep” command can also be used in the PMStart.cmd file to add delays. See Chapter 4 – Using the Headline Manager in Run Mode for more information.

Headline Appearance Settings

Show Headline check box – check this box if you want to display a headline. If you do not want to display a headline then remove the check. When the check is removed the values below are grayed out since you will not be configuring a headline for the screen but configuring for the serial output port only.

Title – caption used on the headline window. The title will also be displayed on the minimized headline button.

Display Time (sec) – amount of time, in seconds, that the headline is displayed before it is automatically hidden. A value of 0 will display the headline indefinitely until it is hidden or minimized by the operator. The default value is 5 seconds. This value affects the original headline message only and does not affect the headline message when reshowed.

Location – headline location. Options from a drop down menu are Top, Middle, and Bottom. Top will display a headline in the top third of the display area, Middle will display a headline in the middle of the display area and Bottom will display a headline in the bottom third of the display area.

Text Color – text (foreground) color for the headline. Select the color bar to display a window with a color palette. Select the color desired for the text and then select OK to save the new color or Cancel to return to the old color.
**Back Color** – background color for the headline. Select the color bar to display a window with a color palette. Select the color desired for the background of the headline window and then select **OK** to save the new color or **Cancel** to return to the old color.

**Preview** – select this button to see the headline displayed in its selected location with the selected colors. The headline will be displayed for the specified time. Select **Hide** to hide the headline or **Minimize** to minimize the headline. If you select **Minimize** the headline will appear as a small button at the top of the window and will remain there until you select the minimized headline and then select **Hide**.

Note: once a headline is minimized the **Display Time** is no longer in affect.

**Serial Output Settings**

Only one headline should be configured for sending data to the serial port. If multiple headlines are using the serial port it is possible for data to become intermixed and out of sequence resulting in illegal data being received by the receiving message display device.

**Send to Serial Port check box** – check this box if you are going to send commands out a serial port to a message display unit or some other type of device. If you do not want to send data out the serial port then remove the check. When the check is removed the values below are grayed out since you will not be configuring the serial port for messages.

**Port #** - number of the serial communications port used to communicate (output) the headline messages. Options from the drop down menu are 1, 2, 3, 4. On a PanelMate ePro this value should be set to 2.

**Baud Rate** - baud rate for the serial communications. Options from the drop down menu are 1200, 2400, 4800, 9600, 19200, 38400.

**Data Bits** – number of data bits for the serial communications. Options from the drop down menu are 7, 8.

**Parity** – parity for the serial communications. Options from the drop down menu are None, Even, Odd.

**Stop Bits** – number of stop bits for the serial communications. Options from the drop down menu are 1, 2.

Note – the **Port Initialization String, Message Clear String, Message Prefix String, Message Suffix String** fields may include control characters. Insert control characters by specifying their 3 digit ASCII code preceded by a "\". Example, a carriage return would be defined as \013. To include the "\" character within a sting, insert the ASCII value 092 preceded by a "\".

**Port Initialization String** – initialization string sent out the serial port when the Headline Manager program is launched in run mode.
**Message Clear String** – string sent out the serial port when the **Message Number Item** value changes to zero (0). If there is no message clear string specified by the receiving device then you can create your own string of blanks to clear a message.

**Message Prefix String** - string sent out the serial port before each headline message.

**Message Suffix String** - string sent out the serial port after each headline message.

**Min. Line Length** – minimum number of characters required in a message by the receiving device. If the message is too short then the message will be padded with spaces to be the minimum length (not including the prefix and suffix).

**Max. Line Length** - maximum number of characters allowed in a message by the receiving device. If a message is too long then the message will be truncated to the maximum length (not including the prefix and suffix).

### Configuring .csv Files

The `.csv` message file is a comma-separated-variable text file that is created/edited in Microsoft Excel, Notepad or WordPad. You can store up to 65,535 messages in a single file and use the file as the message source for the Headline Manager and PanelMate PC Pro.

The format of the `.csv` file messages for the Headline Manager is the same as the PanelMate External Message File.

- **Column 1** – Message number (ID) (1-65535).
- **Column 2** – Message foreground color (0-255). Not used for Headline Manager.
- **Column 3** – Message background color (0-255). Not used for Headline Manager.
- **Column 4** – Message font (0 = normal, 1= graphic, 2= double-high, 3= quad). Not used for Headline Manager.
- **Column 5** – Message destination (1= screen, 2= printer, 3= both). Not used for Headline Manager.
- **Column 6** – Message string (255 characters max). The Headline Manager will only display the first 80 characters in a headline message. The **Max Line Length** value in the `.hlm` file determines the maximum message length for messages sent out the serial port.

**Example File:** **HeadlineTop.csv**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Warning: High Temperatures</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>CAUTION: Low Levels</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>System Stopped</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>..................</td>
</tr>
<tr>
<td>55</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Shift Change in 15 minutes</td>
</tr>
</tbody>
</table>


Note: The message data will be displayed as entered in the .csv file. Any special PanelMate fields referenced will be displayed as text and will not be interpreted per the PanelMate rules. As a result, Headline Manager can not display PLC data or other special values.

Configuring PanelMate Applications For Headline Manager (.pps Files)

In order to reshow a headline you must add a variable-sized pushbutton to each page from which you wish to recall headlines. The Variable-Sized Control Button should be set to Normally-Closed, Momentary and the Reference should match the DDE Link Setting for the Re-Show Message Trigger Item configured in the Headline Manager. The normally closed momentary setting results in setting the reference to a value of 0 when pressed and 1 when released. As an example, if the DDE Link Setting for the Re-Show Message Trigger Topic is set to: PMC|sp, and the Item is set to reshow1 then the following dialog settings for the control button would be correct:

![Variable-Sized Control Button](image)

PanelMate Configuration for Variable-Sized Control Button For Headline Manager

Using the Sample Files

A sample pps file can be found on the PanelMate Power Pro software CD (V2.1 and higher) under PM\Kits\Sample to help you build your PanelMate configuration that will be using the Headline Manager. The sample.pps file contains a page 197 that contains variable-sized buttons (defined as Normally Closed Momentary) that can be used to set the DDE link trigger to re-show the top, middle and bottom headlines. You can simply copy the desired variable-sized buttons to your application. The sample.pps buttons for Headline Manager changes the value of the scratchpad variables reshow1, reshow2 and reshow3 for the top, middle and bottom headlines respectively. The buttons change the trigger values to 0 and then to 1. If necessary, you can change the scratchpad variable names used in the button and assigned in the .hlm file. The values are changed in the .hlm file by using the Headline Manager in configuration mode.
Control Buttons - Sample Configuration Page 197
Chapter 4: Using the Headline Manager in Run Mode

In this chapter, you will learn:

- How to launch the Headline Manager
- How to use the Headline Manager in run mode
Headline Manager Launching Methods

The Headline Manager is designed to run in tandem with the PanelMate PC Pro application.

There are two recommended ways to launch the Headline Manager with a PanelMate PC Pro configuration:
1) Using the startup `PMStart.cmd` file at boot-up
2) Using `Start>Run PMStart`

Notes:
- Both methods launch the `PMStart.cmd` file.
- During boot-up, there will be no messages displayed telling you that the Headline Manager is launching.

Using the Startup PMStart.cmd File to Automatically Launch a Configuration and Headline Manager

When your runtime unit boots up, it automatically launches the `PMStart.cmd` file (see Appendix A for a listing of the complete file). If you would like the runtime unit to automatically launch your configuration (.pps file) and Headline Manager, you can do so by editing the `PMStart.cmd` file using Notepad. To do this, complete the following steps.

Note: When using a PanelMate ePro, the `PMStart.cmd` file is found in the root directory of the D:\ partition

1) Connect a PS/2 mouse and keyboard to your unit.
2) Reboot your unit.
3) Click `Start>Explorer`.
4) Browse to find `PMStart.cmd` and then right-click the file and click `Edit`.
   Result: Notepad is launched.
5) Edit the following line in the `PMStart.cmd` file by replacing the `XEDemo.pps` file name with the name of your ePro configuration.
   ```
   set MY_CFG=d:\cfg\XEDemo.pps
   ```
6) In the `PMStart.cmd` file you will see 4 lines with the following:
   ```
   Set MY_TOPHL="d:\Headline Manager\XEdemotop.hlm"
   Set MY_MIDHL="d:\Headline Manager\XEdemomid.hlm"
   Set MY_BOTHL="d:\Headline Manager\XEdemobot.hlm"
   Set My_PNTRHL="d:\Headline Manager\none.hlm"
   ```
   Replace the `XEdemoxxx.hlm` file names with the names of your Headline configuration files. If there are no files for the top, middle, bottom or the printer headlines respectively then replace the file names with "none". If you store the headline files at a path location different from the default location make sure that you enter the correct path name.
7) Save the edited `PMStart.cmd` file, then close Notepad.
By-Passing the Headline Manager in the PMStart.cmd File

If you do not want to launch the Headline Manager then make sure that the file names for the 4 lines noted in step 6 above are all set to "none" as shown here.

Set MY_TOPHL="d:\Headline Manager\none.hlm"
Set MY_MIDHL="d:\Headline Manager\none.hlm"
Set MY_BOTHL="d:\Headline Manager\none.hlm"
Set My_PNTRHL="d:\Headline Manager\none.hlm"

Power-Up Sequence

Once power is connected to your PanelMate ePro runtime unit, the following occurs:
1) A DOS prompt appears on the screen, informing you that the unit is initializing system resources.
2) The Windows NT Embedded operating system boots up.
3) A Delay-Connecting to Touchscreen Controller window appears, informing you that the unit is loading the touchscreen driver.
4) The PanelMate PC Pro application launches.
5) The Headline Manager program launches. Multiple occurrences may take place based on the number of command lines in the PMStart.cmd file.

If the .hlm file specifies a Serial Output Port Initialization String then the string will be sent out the specified serial port after the Headline Manager program launches. It is important that the receiving device is ready for input.

If the Message Number Item specified in the .hlm file contains a non-zero value during bootup then the associated message will be displayed in a headline and/or sent out the serial port after the Headline Manager program launches.

Note 1: You may see the error “DDE Link not available” when attempting to initialize the Headline Manager. If you receive this error it could mean that the Startup Delay time is not long enough. Optionally, instead of changing the Startup Delay time you can increase the sleep time by modifying the following line in the PMStart.cmd file to a time longer than 40 seconds.

Set CFG_LOAD_TIME=40

The error could also be the result of the DDE Topics/Items configured in a .hlm file not being found. If PanelMate PC Pro is specified (PMC) then make sure the Topic and Item values are included in the PanelMate configuration file.

Note 2: You may see the error “Error Reading xxxx Fatal Error #76 Path not found Program Terminating”. If you get this error it means that a .csv file path can not be found. Check the path of your .csv files as specified in the .hlm file for validity.

Headline Manager in Run Mode

When the Message Number Item value specified in the .hlm files changes the Headline Manager will display the message associated with the new value on the screen and/or send the message out the serial port.
If a message is not found then the headline will be displayed as blank on the screen and/or a blank message will be sent out the serial port with the Min Line Length value determining the number of spaces in the message string.

If the Message Number Item value changes to zero (0) then the headline will be hidden on the screen if one is currently being displayed. In addition, if Serial Output Settings are selected then the Message Clear Sting will be sent out the serial port.

For example, if the Topic is PMC|plc1 and the Item is 40100 and the value associated with the plc reference changes to 4 then the Headline Manager will find message 4 in the associated .csv file. Next it will display the specified message as a headline and/or send the message out a serial port with the prefix and suffix strings.

PanelMate Page with All 3 Headlines Displayed

Once a headline is displayed it will stay on the screen the amount of time specified in the Display Time field and then it will automatically be hidden. If the Display Time value is zero (0) then the headline will remain on the screen. Each headline window displays two buttons – Hide and Minimize.

Hide – select this button to remove the headline from the display
Minimize – select this button to minimize the headline on the display
Minimized Headlines

When a headline is minimized it will appear at the top of the window as a small button with the **Headline Title** as the label. The minimized button for the top headline will appear at the top left, the minimized button for the middle headline will appear at the top middle and the minimized button for the bottom headline will appear at the top right of the application window.

If a headline is minimized before the **Display Time** has elapsed then the headline will not be automatically hidden. You must select the minimized headline button to maximize the headline and then select **Hide** to remove the headline from the display.

If a headline is minimized and the **Message Number Item** value changes to zero (0), the headline will be hidden. While a headline is minimized, if the value changes to a valid message number the headline will be displayed with the new message and if the value changes to an invalid message number then a blank headline will be displayed.

Re-Show Message

For each headline defined, if you change the **Re-Show Message Trigger Item** value from 0 to 1 then the last headline displayed will be redisplayed. It is recommended that if you want to take advantage of the re-show feature that you use a PanelMate variable-sized control button (defined as Normally Closed Momentary) to write to a scratchpad value. See Chapter 3 – Configuration Using the Headline Manager for more information.
Terminating the Headline Manager

The Headline Manager will run as a background task as long as the DDE link is active. Once the DDE link is broken then the Headline Manager will terminate. This means that if the Message Number Topic is PMC|xxx and the PanelMate PC Pro program (pmc.exe) is terminated then the Headline Manager will also terminate.
Chapter 5: Troubleshooting

In this chapter, you will learn:

- How to interpret error messages from the Headline Manager in run mode
- How to solve error conditions seen while using the Headline Manager in run mode
# Headline Manager Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error Message “DDE Link not available”</td>
<td><strong>Start up Delay</strong> time not long enough so the DDE Topic is not available when the Headline Manager is trying to make connections. This error could also be a result of an error configuring the DDE Topic/Item.</td>
<td>Make the <strong>Start up Delay</strong> time longer or increase the “sleep” command to the <strong>PMStart.cmd</strong> file. Check to make sure the DDE Topic/Item values in the .hlm file are configured correctly</td>
</tr>
<tr>
<td>Error Message “Error Reading xxx Fatal Error #76 Path not found Program Terminating”</td>
<td>The file path for the file named in the error message does not exist. The file path of a Message File specified in a .hlm file is not correct or the Headline Manager command line argument path is not correct for a .hlm file.</td>
<td>Check that the Message File entry in the .hlm is correct and check to make sure the PMStart.cmd file has been edited correctly.</td>
</tr>
<tr>
<td>Error Message “File xxx Not Found” followed by “Error Reading File xxx Program Terminating”</td>
<td>The .hlm file name provided as the command line argument for Headline Manager is not valid.</td>
<td>Make sure the .hlm file name specified in the PMStart.cmd file is valid and that the .hlm file is stored correctly.</td>
</tr>
<tr>
<td>Error Message “File xxx not found Program Terminating”</td>
<td>A .csv file name does not exist (the path is legitimate). The Message File name specified in a .hlm file is not correct.</td>
<td>Make sure the .csv file path and name specified in the Message File field in the .hlm file is valid. The specification or file name must be changed so that the two match.</td>
</tr>
<tr>
<td>Blank messages appear instead of valid messages</td>
<td>A specified message cannot be found associated with the assigned value</td>
<td>Make sure the value assigned to the Message Number Item is valid and has a matching message in the .csv file.</td>
</tr>
<tr>
<td>Headlines are not appearing when expected</td>
<td>The Message Number Item value is not being scanned by the PanelMate.</td>
<td>Place the Message Number Item reference in the PanelMate message file so that it is scanned continuously</td>
</tr>
<tr>
<td>Headlines disappear after being displayed</td>
<td>1) The Display Time is set too short. 2) The Message Number Item value is being cleared (set to 0)</td>
<td>1) Change the Display Time to 0 or make longer. 2) Make sure the Message Number Item value is not being changed to 0.</td>
</tr>
<tr>
<td>Issue</td>
<td>Possible Cause</td>
<td>Corrective Action</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Run-time error &quot;8005&quot;</td>
<td>Two or more headlines are configured to send data out the serial port</td>
<td>Check to make sure that only 1 of all the active .hlm files selects and configures the serial port.</td>
</tr>
<tr>
<td>Port Already Open</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Display</td>
<td>The device was not ready to receive the <strong>Port Initialization String</strong></td>
<td>Make sure the receiving device is powered up before launching the Headline Manager</td>
</tr>
<tr>
<td>Device doesn’t display</td>
<td></td>
<td></td>
</tr>
<tr>
<td>correctly</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix A: Directories and Files

In this appendix, you will learn:

- About the PanelMate ePro directory and file structure
- About the PMStart.cmd file
PanelMate ePro Treeview

The following lists the treeview of the PanelMate ePro XE/SE with the demo files loaded. A similar organization should be used for your application. You can write to the D:\ partition when the ePro is in Protect Mode.

D:

- PMStart.cmd demo start-up command file (file content provided below)
- Cfg (put the .pps, .ois and recipelist.csv files here)
  - XEdemo.pps demo configuration
  - XEdemo.ois demo recipe script engine
  - recipelist.csv demo list of recipe names
  - recipemanager.log log file for the Recipe Manager
  - XEdemo.opf OPC server configuration (OPC server & simulation driver)
  - chddesrv.exe demo DDE server (used for data simulation)
- Document Viewer (put the .dcv and data files here)
  - XEdemo.dcv demo URL/Filename list
  - XEdemo_home.htm demo startup page for Document Viewer
  - relnotes.txt demo .txt file to call up
  - ePro-8 cutout template.pdf demo .pdf file to call up
  - 1219B power supply.jpg demo .jpg file to call up
  - ePro.jpg demo .jpg file to call up
  - PM help.htm demo .htm file to call up
  - *.gif files files for *.htm files
- Headline Manager (put the .hlm and headline .csv files here)
  - XEdemobot.hlm demo headline specs – bottom
  - XEdemohl.csv demo Headline Manager messages
  - XEdemomid.hlm demo headline specs – middle
  - XEdemotop.hlm demo headline specs – top
- Recipe Manager (put the recipe file .csv files here)
  - XEdemo_XXX.csv demo Recipe ingredients – 20 files where XXX is the recipe name
- Trend Viewer (put the .cht files here)
  - XEdemoRamps.cht demo chart with ramp data
  - XEdemoRandom.cht demo chart with random data
  - XEdemoSinewave.cht demo chart with sine data
PMStart.cmd File

Here is the PMStart.cmd file in its default state. Lines will be edited for your application. See Chapter 4: Headline Manager Launching Methods for more details. This file can be found on the PanelMate Power Pro CD (V2.1 and higher)

@echo off
REM * To set this batch file to automatically start a PanelMate PC Pro Application, set the variable MY_CFG to the desired path\filename.
set MY_CFG=d:\cfg\XEdemo.pps

REM * If you are going to start Document Viewer,
REM * Headline Manager, or Trend Viewer after the PanelMate configuration loads, set the variable CFG_LOAD_TIME to the number of seconds it takes to completely boot up the PPS file. Measured from when begins to load until the first display is drawn
REM * following a power down reboot.
set CFG_LOAD_TIME=40

REM * To set this batch file to automatically start up to three Headlines, set the variables MY_TOPHL, MY_MIDHL, and MY_BOT to the desired path\filename of the three Headline Manager Configuration files (.HLM)
REM * To by-pass a headline use the file name none.hlm
set MY_TOPHL="d:\Headline Manager\XEdemotop.hlm"
set MY_MIDHL="d:\Headline Manager\XEdemomid.hlm"
set MY_BOTHL="d:\Headline Manager\XEdemobot.hlm"
set MY_PTRHL="d:\Headline Manager\none.hlm"

REM * To automatically start Recipe Manager you do not need to do anything within this batch file.
REM * Just place the file recipelist.csv in the same directory as the PanelMate PC Pro application
REM * file (.PPS) and copy the RecipeManager.OIS file to the same directory and rename the .OIS file to match
REM * the name of the .PPS file (Example: Myconfig.OIS)

REM * To automatically start Trend Viewer, leave the
REM * variable START_TREND set to YES. If you do not want
REM * Trend Viewer to start, change to variable to NO

set START_TREND="YES"

if exist %MY_CFG% goto START_APP
  goto NO_APP

:START_APP
  echo    Starting PanelMate Application %MY_CFG%...
  d:
  cd d:\cfg
  start c:\pmconfig\ntonline\pmc.exe %MY_CFG%
  sleep %CFG_LOAD_TIME%

if exist %MY_DCFile% goto START_DCV
  goto NO_DCV

:START_DCV
  "C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Document Viewer.lnk"
  %MY_DCFile%
  sleep 2

:NO_DCV
  if exist %MY_TOPFile% goto START_TOP
  goto NO_TOP

:START_TOP
  "C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline Manager.lnk" %MY_TOPFile%
  sleep 2

:NO_TOP
  if exist %MY_MIDFile% goto START_MID
  goto NO_MID

:START_MID
  "C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline Manager.lnk" %MY_MIDFile%
  sleep 2

:NO_MID
  if exist %MY_BOTFile% goto START_BOT
  goto NO_BOT

:START_BOT
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline Manager.Ink" %MY_BOTHL%
  sleep 2

:NO_BOT
if exist %MY_PTRHL% goto START_PTR
  goto NO_PTR
  :START_PTR
  "C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline Manager.Ink" %MY_PTRHL%
  sleep 2

:NO_PTR
if %START_TREND% == "YES" goto START_TREND
  goto EXIT
  :START_TREND
  "C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Trend Viewer.Ink" goto EXIT

:NO_APP
  echo    PanelMate Application %MY_CFG% Not Found...
  sleep 5

:EXIT
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Are the instructions easy to follow? □ □ □ □

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Are there enough examples? □ □ □ □

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