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## APPENDIX 4

# MEGA OFFICE DATA ENTRY

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### ***INTRODUCTION***

The Mega Office concept was developed to allow users to manage several small offices, or individual devices from many offices more efficiently. It provides data mapping from a user-selected collection of existing source offices and devices to a single office. With the ability to map desired monitoring devices from multiple offices to a central Mega Office location, users can more quickly access and evaluate the specific device data they need. They can also benefit from the advantages of quicker and more efficient alarm distribution for the devices selected for the Mega Office.

This appendix section presents step-by-step instructions for creating a Mega Office and selecting source offices and devices for mapping to the Mega Office. Unlike the data entry requirements for a normal PressureMAP office, which requires extensive data preparation, sheath or tube mileage calculations, and Location Code assignment, setting up the Mega Office is much simpler. It is a matter of defining the target Mega Office in the Office Information Screen and using the spreadsheet editor to select desired source offices and devices for inclusion in the office. In order to eliminate device numbering similarities, automatically-generated or user-selected device prefixes are also provided.

Please note that the Mega Office is similar, in some respects, to the transfer office capability in PressureMAP (see Section 9 of this manual). A key difference between the two pertains to the way in which device data is structured for the offices. While it is possible to set up multiple target offices using either technique, the transfer file editor creates one transfer file for all target offices. This file can eventually become very large and difficult to manage, as new source offices and devices are added to the file. Conversely, each individual Mega Office created is defined in a unique file, which makes it much easier to customize and optimize device access to target offices. Also, as mentioned above, alarm distribution works much more efficiently for a Mega Office.

Most of PressureMAP's extensive functionality pertains to the Mega Office. For example, Dispatch Priorities, Alarming, Device Histories and System Quality Indexing are provided. Functions that cannot be performed on a Mega Office include realtime readings, CPAMS programming and CPAMS Diagnostics. Essentially, the same functions that can be performed on a transfer office can be performed on a Mega Office.

### ***DATA ENTRY PROCEDURES***

The Mega Office data entry procedures begin from the System Options Menu. Once the computer system is booted up and PressureMAP has been started, the System Options Menu will be presented (SCREEN A4-1). The System Options Menu consists of a heading, a list of system options, and the program **Choice?** prompt.

# DATA ENTRY

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```
System Options                                MAP Series XX.XX.XX
09/02/2006 13:05                            System Studies Incorporated
-----
System Options
-----
 1. Select MAP Program
 2. Select MAP Data Entry
 3. System Administration
 4. Language Selection
 Q. Quit

Choice?
```

SCREEN A4-1: MAP SYSTEM OPTIONS MENU

## Procedure:

- 1) From the System Options Menu **Choice?** prompt, select Item **2**, *Select MAP Data Entry*, followed by **<Return>**.

After the data entry option has been selected, the screen will display the MAP Data Entry Menu, as shown in SCREEN A4-2.

```
MAP Data Entry                                MAP Series XX.XX.XX
03/02/2005 13:05                            System Studies Incorporated
-----
MAP Data Entry
-----
 1. PressureMAP Data Entry
 2. ReportMAP Data Entry
 3. CableMAP Data Entry
 4. AlarmMAP Data Entry
 5. DryerMAP Data Entry
 6. Special Data Entry
 7. USAM Data Entry
 Q. Quit

Choice?
```

SCREEN A4-2: MAP DATA ENTRY MENU

- 2) From the MAP Data Entry Menu **Choice?** prompt, select **1**, *PressureMAP Data Entry*, and **<Return>**.

## Office Data Entry

Once PressureMAP Data Entry has been selected, the program will display the PressureMAP Data Entry Screen, and you are ready to begin the actual data entry process for the Mega Office. All of PressureMAP's editor functions begin and end at the PressureMAP Data Entry Screen (SCREEN A4-3). The first and second lines of this screen list the PressureMAP Data Entry Menu, after which is a status line that displays a message prompt.

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```
Data Entry: A[dd a new office], I[nfo about an office], S[pecific device info],
            D[elete an office], R[ecover from hardware failure], M[ore], Q[uit]

Choose an option:
-----

                Offices
                -----

                1.  PARKWAY           10.  DUARTE
                2.  BRIDGE            11.  FORSTER
                3.  SWELLWATER        12.  SUNNYMEADE
                4.  VICTORIA           13.  CRESTI
                5.  CHESTER            14.  GARLAND
                6.  RIDGEWAY           15.  PALMER
                7.  ANDERSON           16.  REDLAND
                8.  GARDNER            17.  HIGHGROVE
                9.  REED               18.  LAKEVIEW

-----
                                           PressureMAP XX.XX.XX
```

SCREEN A4-3: DATA ENTRY SCREEN

- 3) From the PressureMAP Data Entry Menu **Choose an option** prompt, enter the letter **A** to add a new office. Follow the selection with **<Return>**.

When the Add a New Office command is selected, the program will respond with:

**Name of office to add:**

- 4) Type a name for the Mega Office followed by **<Return>**. This entry produces the Office Information Screen shown below, and the cursor is positioned in the **Monitor type** data field.

# DATA ENTRY

---

```
Info about <OFFICE NAME>: Keypad Field Control, <Esc> finish screen,
                          <Return> next field, <Backsp> delete char, <Ctrl B> previous field

Enter Office Information
-----
File date:      02/22/05  (053)                Last edited:      02/22/05

Office name: <Your Office Designation>        Monitor type:
Phone number:
Office mode:  ENABLED
Baudrate:     1200
Password 1:
MAP alert #:
Modem Site:
User Defined Devices: OFF
Trunk/Toll Tolerance: 80 ohms
MAP alert baudrate: 2400
Alert sensitivity: 3

Remarks:

Aerial std:    2.0      Buried std:    3.0      Undgnd std: 5.0
Delivery std:  7.5      Flow std:     1.25
-----
```

SCREEN A4-4: OFFICE INFORMATION SCREEN

- 5) Type **MEGA** in the **Monitor type** field, or use the *Shift* and > or < keys to toggle through the office type possibilities until MEGA appears. Press **<Return>**. Once the Mega Office type has been selected, many of the Office Information Screen data fields that are not pertinent to a Mega Office disappear (as shown below), and the cursor is positioned in the **Office mode** data field.

```
Info about <OFFICE NAME>: Keypad Field Control, <Esc> finish screen,
                          <Return> next field, <Backsp> delete char, <Ctrl B> previous field

Enter Office Information
-----
File date:      02/22/05  (053)                Last edited:      02/22/05

Office name: <YOUR OFFICE NAME>                Monitor type:  MEGA
Office mode:  ENABLED

Remarks:

Aerial std:    2.0      Buried std:    3.0      Undgnd std: 5.0
Delivery std:  7.5      Flow std:     1.25
-----
```

SCREEN A4-5: OFFICE INFORMATION SCREEN

- 6) The default value in this field is *Enabled*. A warning prompt displays at the top of the screen indicating that all calling and alarming for the office stops if you select or enter *Disabled*.



## DATA ENTRY

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### *Specific Device Data Entry*

The Mega Office Editor is used to select source offices and devices to place in the Mega Office. As you can see in Screen A4-5 above, there are six editing options available: Add Device, Disable Device, Rename Device, View Device, Delete Device and Quit. These controls simplify the process of creating and maintaining the Mega Office database.

### *Adding Devices*

When adding a device to a Mega Office, you first select the source office, as described below, and then selects one, several or all of the devices in the source office to map to the target Mega Office. The information below explains how to select offices and devices for the Mega Office.

#### **Procedure:**

- 1) To add an office and devices to the Mega Office, press **A** and **<Return>** at the Mega Office Editor screen. This entry produces a list of the source offices for your PressureMAP system, an example of which is shown in SCREEN A4-6 below.

```
-----
Keystrokes: [Select <Return>] [Abort <Esc>] [Down 'J'] [Up 'K'] [Help 'H']
             [Search Forward 'F'] [Search Back 'B'] [Search Next 'N']

Select Source Office
-----
 1. PARKWAY          289H LSS      IP=10.3.0.34:3001
 2. BRIDGE           289H LSS      IP=10.3.0.42:3001
 3. SWELLWATER      CHATLOS L3    T8925161      DIGI_A
 4. VICTORIA        289H LSS      NONE          DIGI_A
 5. CHESTER         DAD           T9W2748925    DIGI_A
 6. RIDGEWAY        DAD           T9W2749351    DIGI_A
 7. ANDERSON        289H LSS      IP=10.3.0.43:3001
 8. GARDNER         289H LSS      IP=10.3.0.48:3001
 9. REED            289H LSS      IP=10.3.0.66:3001
10. DUARTE          289H LSS      IP=10.3.0.68:3001
11. FORSTER         289H LSS      IP=10.3.0.62:3001
12. SUNNYMEADE     SSI UM260     IP=10.1.0.116:10001
13. CREST1         289H LSS      IP=10.1.0.123:3001
14. GARLAND         289H LSS      IP=10.1.0.113:3001
15. PALMER          SSI UM260     T8765114      DIGI_A
16. REDLAND        SPARTON 5300  T97130590     SW-114
17. HIGHGROVE      DAD           T9W2748925    SW-114
18. LAKEVIEW       289H LSS      NONE          DIGI_A
--- More Below -----
```

SCREEN A4-7: SOURCE OFFICE SELECTION

- 2) Using the Browser Key format scrollbar and up and down arrow keys or the Browser Key controls listed at the top of the Source Office Selection screen, highlight a desired office and press **<Return>**. PressureMAP then automatically creates a four character prefix that will be included as part of the Device number for all devices selected from the office. The prefix eliminates duplicate numbering of Mega Office devices from multiple source offices.

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```
Mega Office Editor: [Add Device 'A'], [Disable Device 'D'], [Rename Device 'R']
                    [View Device 'V'], [Delete Device 'Ctrl D'], [Quit 'Q']

Prefix is: 'DUAR'. Press Enter to accept, or enter a new prefix:
-----
Device          Source          Source          Source
                Office           Device #        Access #
-----

```

SCREEN A4-8: MEGA OFFICE EDITOR-DEVICE PREFIX SELECTION

Notice that the assigned prefix, which is an automatic designation that represents the first four characters of the source office, is located on the command line near the top of the screen.

- 3) Press **<Return>** to accept the prefix, or enter a one to four character prefix of your choosing, followed by **<Return>**. If you prefer, it is also possible to exclude the prefix altogether by entering a blank at the screen prompt. SCREEN A4-8 shows a Dial-a-Ducer office, called Duarte, with an automatically-assigned prefix of "DUAR."

```
Keystrokes: [Select <Return>] [Quit <Esc>] [Down 'J'] [Up 'K']
             [Search Forward 'F'] [Search Back 'B'] [Group Lines 'G']
             [Mark Line 'M'] [Mark All 'A'] [Help 'H']

Select Source Devices
-----
Device          Access #      Type Pipe      Address          Prefix
-----
D8925-1         D8925-1      DF             D8925-1         DUAR
D8925-2         D8925-2      DP             D8925-2         DUAR
D8925-3         D8925-3      FT             D8925-3         DUAR
D8925-A         D8925-A      $A             D8925-A         DUAR
-----

```

SCREEN A4-9: DEVICE SELECTION SCREEN

- 4) Using the browser keyboard controls listed at the top of the screen, select the desired individual devices (or all of them) and press **<Return>**. PressureMAP then displays a device listing for the source Mega Office, as shown below. Notice that the first column of this screen

## DATA ENTRY

---

displays the Device Number including the prefix. Careful consideration of this important device designation will help to eliminate duplicate device numbers from being selected for the Mega Office.

```
Mega Office Editor: [Add Device 'A'], [Disable Device 'D'], [Rename Device 'R']
                    [View Device 'V'], [Delete Device 'Ctrl D'], [Quit 'Q']

-----
Device      Source      Source      Source
  Office    Office      Device #    Access #
-----
DUARD8925-1 DUARTE      D8925-1    D8925-1
DUARD8925-2 DUARTE      D8925-2    D8925-2
DUARD8925-3 DUARTE      D8925-3    D8925-3
DUARD8925-A DUARTE      D8925-A    D8925-A
-----
```

SCREEN A4-10: DEVICE SELECTION SCREEN

- 5) Add additional offices and devices to the Mega Office by following steps 1 through 5 above. As more devices are added to the office, the listing will begin to resemble the one in Screen A4-10 below. Devices will be listed by prefix in alphabetical order.

```
Mega Office Editor: [Add Device 'A'], [Disable Device 'D'], [Rename Device 'R']
                    [View Device 'V'], [Delete Device 'Ctrl D'], [Quit 'Q']

-----
Device      Source      Source      Source
  Office    Office      Device #    Access #
-----
DUARD8925-1 DUARTE      D8925-1    D8925-1
DUARD8925-2 DUARTE      D8925-2    D8925-2
DUARD8925-3 DUARTE      D8925-3    D8925-3
DUARD8925-A DUARTE      D8925-A    D8925-A
PALM001-01  PALMER      001-01     001-01
PALM001-02  PALMER      001-02     001-02
PALM001-03  PALMER      001-03     001-03
PALM001-04  PALMER      001-04     001-04
PALM002-01  PALMER      002-01     002-01
PALM002-02  PALMER      002-02     002-02
PALM002-03  PALMER      002-03     002-03
PALM002-04  PALMER      002-04     002-04
PALM002-10  PALMER      002-10     002-10
PALM002-16  PALMER      002-16     002-11
-----
```

SCREEN A4-11: DEVICE SELECTION SCREEN (MULTIPLE OFFICES)



- 6) When you have finished adding offices and devices to the Mega Office, press **Q** and **<Return>**. The following screen prompt displays:

**Correct? Y[es], N[o], T[hrow away changes]**

- 7) Confirm that the devices selected for the Mega office are correct and, if so, answer *Yes* to the prompt by **Y** and **<Return>**. If the selection is incorrect, pressing **N** and **<Return>** places you back in the Device Selection Screen where you can enter your corrections. Entering **T** and **<Return>** reproduces the Source Office Selection Screen (SCREEN A4-6).

### ***Disabling Devices***

If you would like to disable one or more devices in the Mega Office, you can do so easily using the disable device command. Please note that this command works like a toggle, placing the selected device in parentheses to indicate that it has been disabled, and removing the parentheses to return the device to the default enabled status. Only one device at a time can be disabled, but since the process is a such a simple one (as described below), multiple devices or all of them can be disabled very quickly and easily.

#### **Procedure:**

- 1) Access the Mega Office Editor (SCREEN A4-10 above). If you are logging into PressureMAP from the System Options or MAP Programs Menus, following the steps described at the beginning of this section to get to the Data Entry Screen (SCREEN A4-3). If you are already working in the system, go to MAP Data Entry and select PressureMAP Data Entry. Follow the prompts to access the Mega Office Editor screen.
- 2) Notice that the cursor is positioned in front of the first device in the office list. Use the down arrow key to advance to the desired device.
- 3) Press **D** to disable the device. Notice that parentheses are added to the device, indicating the disabled status.
- 4) Continue using the down/up arrows to select additional devices to disable, if desired.
- 5) If you need to enable a device, simply position the cursor in front of the device and press **D** again. Notice that the parentheses are removed.
- 6) When you have finished enabling or disabling devices, press **Q** and **<Return>**. PressureMAP then displays the following prompt:

**Correct? Y[es], N[o], T[hrow away changes]**

- 7) To save your entry or entries, press **Y** and **<Return>**. At this point the PressureMAP Data Entry Screen displays where you can choose to perform other data entry functions or back out through to various program menus and log out, if desired.

### ***Renaming Devices***

Another Mega Office Editor function allows you to rename individual devices in the Mega Office file. This simple process makes it possible for you to further customize and modify the device structure of the office. Devices are renamed as described in the steps below.

#### **Procedure:**

- 1) Access the Data Entry Screen by following the instructions described in the preceding subsection. From the Data Entry Screen (Screen A4-11), select **S** followed by **<Return>**. The following prompt displays:

**Specific Device Info for which office?**

- 2) Type the number of the desired Mega Office and press **<Return>**. The program displays the Mega Office Editor with the cursor positioned at the beginning of line 1 in front of the first device listed.
- 3) Use the down arrow key to select the device you wish to rename. Press **R** and a prompt similar to the one below displays on the screen's status line:

**Device is: 'PALM001-01'. Rename device:**

- 4) Type the new name of the device on the status line followed by **<Return>**. Please note that device names cannot exceed 11 characters in length.
- 5) Advance to any of other devices on the Device Selection Screen and rename them, if desired. When you have finished, press **Q** to quit; the following prompt displays:

**Correct? Y[es], N[o], T[hrow away changes]**

- 6) If the devices that you have renamed are correct, enter **Y** and **<Return>**. A **N[o]** response places the cursor back in the device listing section of the screen; entering **T[hrow away changes]** returns you to the Data Entry Screen where you can perform other data entry functions or select **Quit**.

### ***Viewing Devices***

The View Devices option enables you to access Specific Device Information for any of the enabled devices in the Mega Office from the Mega Office Editor screen. With this capability you can check device type, pipe, address, monitored sheath information, etc. You can also view and evaluate device readings.

#### **Procedure:**

- 1) Access the PressureMAP Data Entry Screen (shown below) from the MAP Data Entry Menu.

```
Data Entry: A[dd a new office], I[nfo about an office], S[pecific device info],
             D[elete an office], R[ecover from hardware failure], M[ore], Q[uit]

Choose an option:
-----

                Offices
                -----

                1.  PARKWAY                12.  SUNNYMEADE
                2.  BRIDGE                 13.  CREST1
                3.  SWELLWATER             14.  GARLAND
                4.  VICORIA                15.  PALMER
                5.  CHESTER                16.  REDLAND
                6.  RIDGEWAY              17.  HIGHGROVE
                7.  ANDERSON               18.  LAKEVIEW
                8.  GARDNER               19.  CAMBY
                9.  REED                   20.  MEGA1
               10.  DUARTE                21.  MEGA2
               11.  FORSTER

-----

                                           PressureMAP XX.XX.XX
```

SCREEN A4-12: DATA ENTRY SCREEN

- 2) Select Specific Device Info by pressing *S* and *<Return>*. PressureMAP then displays the following prompt:

**Specific Device Info for which office?**

- 3) Type the number designation of the desired Mega Office (either 20 or 21 in the example above) followed by *<Return>*. PressureMAP then displays the Mega Office spreadsheet editor for the selected office. (Refer to SCREEN A4-10.)
- 4) Use the down arrow key to select the individual device that you are interested in viewing.
- 5) With the cursor positioned in front of the device, press *V* to view Specific Device Information. A screen similar to the one below will display.

```
Keystrokes: [Quit <Esc>] [Down 'J'] [Up 'K'] [Help 'H'] [Print 'P']
             [Search Forward 'F'] [Search Back 'B'] [Search Next 'N']

-----

Specific Device Information for MYOFF                               PressureMAP 26.00.A2
12/21/2006 13:54          *Schedule Off*                          System Studies Incorporated
-----

Device #: 001-01          Type: $P
Address:  MAIN ST.      Loc:      Pipe:      STD:    6.0
TD Type:  RP           Chng:    1.5
Sheath(s) :

Cable:          Prim Pair:      Sec Pair:      Sort Key:
Plat #:          Stickmap:
Phone:
Latitude:          Longitude:

Office 1 Loc:      Distance 1 (kft):      Field 1 Loc:
Office 2 Loc:      Distance 2 (kft):      Field 2 Loc:
--- More Below -----
```

SCREEN A4-13: SPECIFIC DEVICE INFORMATION

- 6) If all of the information does not display on the screen, as in the example above, press the **J** key to scroll downward. Located at the bottom of the screen are the readings for the device.
- 7) To exit the Specific Device Information Screen press the **<Esc>** key, and the program will return to the Device Selection Screen (SCREEN A4-10) where you can select other options or log off by exiting the various menus.

## ***Deleting Devices***

During the process of mapping devices from source PressureMAP offices to a Mega Office, it may be necessary to remove or delete a device(s) that was added in error. This simple process, described in the steps below, can be performed as necessary during the initial data entry process or anytime a device needs to be removed from the listing.

### **Procedure:**

- 1) To delete a device from the Mega Office, you will need to access the Device Selection Screen (see SCREEN A4-10). If you are not already working with the Mega Office Editor, you will need to go to the MAP Data Entry Menu (SCREEN A4-2) either by stepping through the various menus or via a direct login (*pdata*) to the PressureMAP editor.
- 2) At the MAP Data Entry Menu select option 1, PressureMAP Data Entry, by pressing **1** and **<Return>**. A screen similar to SCREEN A4-11 above displays, showing the offices in your PressureMAP system, including Mega Offices.
- 3) Press **S** and **<Return>** at the Data Entry Screen to access Specific Device Information for any of the offices listed. PressureMAP then displays the following prompt:

**Specific Device Info for which office?**

- 4) Type the number of the PressureMAP Mega Office that contains the device(s) you wish to delete. Follow your selection by pressing **<Return>**. PressureMAP then displays the Mega Office Editor (as shown in Screen A4-10), listing the mapped devices from the various source offices.
- 5) Use the down and up arrow keys to select the device you would like to delete. Press **<Ctrl> D**, and you will see that the device disappears from the listing. Please note that if you omit the **<Ctrl>** key and just press **D**, PressureMAP disables the device (refer to the explanation of this editing function on page A4-8). Repeat the process to remove any additional devices from the Mega Office. Please note that there are no controls provided for selecting multiple devices for deletion at one time.
- 6) When you are finished removing devices, press **Q**, for Quit. The following message appears above the office listing:

**Correct? Y[es], N[o], T[hrow away changes]**
- 7) If the deletions you have made are correct, enter **Y** and **<Return>**. A **N[o]** response places the cursor back in the device listing section of the screen; entering **T[hrow away changes]** returns you to the Data Entry Screen where you can perform other data entry functions or select **Quit**.

### ***Quit Mega Office Editor***

When you have finished adding source offices and devices to the Mega Office, you will need to exit the Data Entry Editor to access other parts of the PressureMAP program or log off.

#### **Procedure:**

- 1) To return to the PressureMAP Data Entry Menu from the Mega Office Editor, press the letter **Q** for quit. Depending upon what editing function you are performing at the time, the program will either prompt you to save or throw away your changes. Otherwise, pressing the **Q** key (without a **<Return>**) places you directly at the PressureMAP Data Entry Menu.
- 2) Select one of the editing functions, or press **Q** and **<Return>**

This command effectively quits the PressureMAP portion of the data entry editor and returns you to the MAP Data Entry Menu.
- 3) Continue to back out of the program by pressing **Q** and **<Return>**, or select another program option.

The process of exiting the program is self-explanatory. It is important, however, that you exit the PressureMAP editor properly before leaving the terminal. Never leave the computer before you have logged out of the system.

