# BackupEDGE / RecoverEDGE Installation & Configuration for PressureMAP

## Overview

This document describes the requirements for installing, configuring and using the third-party BackupEDGE<sup>TM</sup> / RecoverEDGE<sup>TM</sup> Version 03.00.03 application on your PressureMAP<sup>TM</sup> system computer. BackupEDGE extends the original system backup capabilities of PressureMAP to include the variety of device resources / media listed below. RecoverEDGE assists in the process of creating a disaster recovery bootable CD for your system and quickly restoring your PressureMAP system if a hardware failure occurs.

The following resources can be used with BackupEDGE:

- Electronic tape cartridge
- Optical devices
  - CD Recordable and Rewritable media (CD-R, CD-RW)
  - DVD media (DVD-RAM, DVD-RW, DVD-R, DVD+RW, DVD+R-DL)
  - ♦ Blu-ray Disk<sup>™</sup> drive
- Iomega REV drive
- SharpDrive Media (USB/SATA removable flash drives, cartridges drives, hard drives, etc.)
- Network-Attached Storage (NAS) servers/devices
- Url backups via file transport protocol (ftp)
  - Remote computers/servers
  - Aws Amazon Simple Storage Service (S3)

## Documented Backup Resource

Due to the excessive amount of instruction required to address each of the above backup resources, this document, instead, will focus on a single backup medium: optical drive (CD/DVD ROM). Detailed information on how to use other backup resources can be obtained from the *BackupEDGE 03.00.03 User Guide*. The user guide is available in PDF format from the Microlite Corporation website (www.microlite.com).

The BackupEDGE / RecoverEDGE Version 03.00.03 software packaged with System Studies' PressureMAP product is intended to be installed on a MAP Engine computer (or equivalent hardware) which runs PressureMAP Version 27 or higher. Depending upon which operating system you are using—SCO UNIX 5.0.7 or CentOS 5.2 Linux—screen output may vary slightly from what is shown in the installation examples below.\*

\*Beginning with PressureMAP Version 28, all current and future development of the PressureMAP and PressureWEB applications will be done using the Linux operating system. This OS environment brings greater flexibility and programming options for PressureMAP program development.

DocumentThe instructions in this document begin with an explanation of what is needed—inOrganizationthe way of materials and information—before you can install the BackupEDGE /<br/>RecoverEDGE product on your PressureMAP system. This preliminary information<br/>is followed by the more detailed sections listed below:

- BackupEDGE/ RecoverEDGE Installation initiated in PressureMAP via the Supplemental Update Menu. The Supplemental Update function stops the various MAP processes and makes it possible for PressureMAP users without ROOT access permission to the PressureMAP computer's operating system to install, configure and remove BackupEDGE.
- 2. **BackupEDGE Configuration** includes BackupEDGE resource selection, setting auto-detection of new devices (scanning for valid resources), configuring devices, and selecting the default backup device.
- BackupEDGE Registration describes procedures for entering the BackupEDGE serial number, making a registration disk, and activating your registration.
- BackupEDGE Setup Requirements in PressureMAP establishing BackupEDGE as the daily backup application, confirming the desired backup resource in PressureMAP (CD-ROM, url, etc.), and designating the number of daily backup slots (retained copies) for the selected backup resource.
- 5. **RecoverEDGE Boot Medium Creation** describes the process of using the EdgeMenu controls and RecoverEDGE Media Generator to create a bootable CD for the selected BackupEDGE resource (optical drive, ftp, etc.).
- 6. **RecoverEDGE Boot Medium Testing** explains the procedure for testing the RecoverEDGE CD to confirm that it complies with requirements for the selected default backup resource.
- Disaster Recovery explains how to use the RecoverEDGE CD to boot the computer and restore the PressureMAP system from your backup archive. This section addresses the crash recovery process for the original computer, for spare computers, and for a computer with different hardware.
- 8. **BackupEDGE Software Removal** how to access the BackupEDGE Control Menu and remove the application, if necessary, from your system.

9. Exiting the BackupEDGE Application

## **Installation Preparation**

Before you proceed with the installation, make sure you have the following items Requirements and/or have met the specified requirements: A user ID on the PressureMAP system that grants access to the System Administration Menu. If you cannot log onto the System Administration Menu, please contact the individual(s) within your company who assign user accounts and logins to obtain one. ■ PressureMAP Installation CD-ROM. BackupEDGE Installation CD-ROM from the Media Kit (Microlite Corporation, part number MB2SI). License Certificate from the BackupEDGE Media Kit. You will need to identify the serial number as it appears on the license certificate. PressureMAP Note: During the supplemental update and BackupEDGE installation, configura-Users Alert tion and registration procedures, all PressureMAP processes will be stopped. For this reason, it important that you complete the procedures described below as carefully and quickly as possible. If you first review this documentation and prepare for the installation, the entire process can be completed with very little disruption to PressureMAP's scheduled activity. Prior to beginning the procedures below, it is strongly recommended that you inform PressureMAP users and/or administrative personnel that the PressureMAP system will be down for 5 to 15 minutes during installation and configuration of the software.

## Section 1: BackupEDGE Installation

After assembling the installation media, you should be ready to install BackupEDGE onto a PressureMAP system as described in the following steps.

### **Procedure:**

1) At the MAP Engine computer, log onto PressureMAP using an ID and login that permits access to the System Administration Menu. Once you initially select the terminal type and printer for the session, you should see the System Options Menu shown below (Example 1).

2 <sup>21</sup> 10.1.2.10 - PuTTY	
System Options 09/20/2010 16:57	MAP Series 27.00.08 System Studies Incorporated
System Options	
1. Select MAP Program 2. Select MAP Data Entry 3. System Administration 4. Language Selection Q. Quit	
Choice? 🚦	

**Example 1: System Options Menu** 

2) From the System Options Menu, select System Administration by pressing 3 and *Enter*. At this point you will need to type the System Administration password. Once PressureMAP accepts the password, it will produce the System Administration Menu (Example 2).

🚰 10.1.2.16 - PuTTY	
System Administration 09/15/2010 11:29 *Schedule Off	MAP Series 27.00.08 * System Studies Incorporated
System Administration	
1. Set Default Daily Backup Resource	13. Stop Process
2. Backup MAP System Files	14. Pause Process
3. Restore MAP System Files	15. User Management
4. Update MAP System	16. Set Idle Logout Time
5. Shutdown the Computer	17. Set the System Name
6. Shutdown and Reboot the Computer	18. Tape Administration
7. Set the Date and Time	19. Network Administration
8. List Users Currently Logged In	20. BackupEDGE
9. Reset File Permissions	21. Restart Web Services
10. Modem Administration	22. Display System Uptime
11. Printer Administration	23. Renew System Registration
12. Start Process	Q. Quit
Choice?	

**Example 2: System Administration Menu** 

 From the menu selection, choose option 4, Update MAP System, and press *Enter*. This produces the Update Types Menu shown below (Example 3).

2 10.1.2.16 - PuTTY		
Update Types 09/15/2010 11:29	*Schedule Off*	MAP Series 27.00.08 System Studies Incorporated
Type of Update  1. System Update 2. Supplemental Update 0. Out		
Choice?		

Example 3: Update Types Menu

4) Select **Supplemental Update** by typing 2 and *Enter*. At this point the program terminates the standard system processes that are underway and displays the prompt shown below.

#### Stopping MAP Processes ....

5) Next you are prompted to insert the PressureMAP Installation CD-ROM into the CD/DVD drive (Example 4).



**Example 4: Supplemental Update Screen** 

Update Selection

Supplemental

Inserting PressureMAP Installation CD 6) Place the CD-ROM into the drive tray and Type *C* to continue with the installation.

The software then displays the Supplemental Updates Menu with a list of Update Profiles (Example 5). Choose option 5, Select Individual Updates, and press *Enter*.

🚆 10.1.2.16 - PuTTY		_ <b>_ _ _ _</b>
Supplemental Updates 09/15/2010 11:31	*Schedule Off*	MAP Series 27.00.08 System Studies Incorporated
Update Profiles		
<ol> <li>Default</li> <li>AT&amp;T (West and Midu</li> <li>AT&amp;T (Southeast) Pr</li> <li>Verizon Profile</li> <li>Select Individual D</li> </ol>	est) Profile ofile /pdates	
Q. Quit Choice?		

Example 5: Supplemental Updates Menu

7) A new screen displays (below), which lists the various Individual Updates available for the system. Depending upon which operating system you have installed on your PressureMAP computer, the number of Update Profiles will differ. Example 6 shows the typical profile display for a SCO UNIX system.

🚰 10.1.2.16 - PuTTY	
Supplemental Updates MAP Series 27.00.0 09/15/2010 11:32 *Schedule Off* System Studies Incorporate	18 :d
Individual Updates	
<ol> <li>AT&amp;T West Alarm Filtering Update</li> <li>Alarm Report</li> <li>SQI Report</li> <li>OU Report</li> <li>Flat Cable Report</li> <li>Standards Report Rev. B</li> <li>Standards Report Rev. C</li> <li>Standards Report Rev. D</li> <li>AT&amp;T West/Midwest Standards Report</li> <li>Report Card Report</li> <li>Quality Report</li> <li>AT&amp;T Southeast Standards Report</li> <li>Backup Edge Installation</li> <li>SCom 3C900 NIC Settings</li> <li>MAP Engine VIII Patches</li> <li>Brocktrout Driver Installation</li> </ol>	
Q. Quit	
Choice?	-

**Example 6: Individual Updates Screens** 

8) Select Backup Edge Installation by typing 13 (or the corresponding number) and pressing *Enter*. At this point the PressureMAP software completes the update process and performs a check to determine if BackupEDGE is a new installation (Example 7).



Example 7: BackupEDGE Detect Screen

9) Notice that the PressureMAP BackupEDGE Control Menu is displayed at the bottom of the screen. To proceed with the installation, press *I* and *Enter*. The installation process will take a few minutes or more to complete, depending upon which MAP Engine or computer equipment you are running.

As shown in the prompt below, eventually you will be requested to place the BackupEDGE Installation CD-ROM into the CD drive:

Place the installation CD for BackupEdge into CD drive: C)ontinue M)ain Menu ?

System Studies Incorporated (2580806.FSD)

BackupEDGE Installation CD 10) Remove the PressureMAP Installation CD, and insert the BackupEDGE CD. Type *C* and *Enter* to continue the installation process.

You will see lines of screen data pass by as the installation proceeds automatically. The install utility examines the media, validates selected software, and installs new BackupEDGE libraries. Finally, the program will indicate that the software has been installed successfully by displaying the messages in the example below, followed by the BackupEDGE Control Menu at the bottom of the screen (Example 8).



Example 8: BackupEDGE Control Menu

## Section 2: BackupEDGE Configuration

The PressureMAP BackupEDGE Control Menu (Example 8) provides the necessary options for setting up and customizing your BackupEDGE application. The procedures below describe the required configuration process.

#### **Procedure:**

 From the PressureMAP BackupEDGE Control Menu, type *C* and *Enter* to begin configuration. The Initial Resource List Screen (Example 9) displays.



Example 9: Initial Resource List Screen

 Near the bottom of the screen you will notice that the Next field is highlighted. Use your right arrow key to highlight the Cancel field, then press *Enter*. At this point the Main Edgemenu Screen displays (Example 10).



Example 10: Main Edgemenu Screen

Initiating Backup Resource Selection 3) Use your right arrow key again to highlight the **Setup** data field at the top of the screen. *Note*: If the arrow keys don't seem to work correctly, try pressing your tab key first before using the arrow keys.

With the **Setup** field highlighted, use the down arrow key to reveal the submenu shown in Example 11 below.



Example 11: BackupEDGE Setup Submenu

4) Use the down arrow key to highlight **Configure BackupEDGE** and press *Enter*. The configuration options shown in Example 12 are displayed.

g <sup>₽</sup> 10.1.2.16 - PuTTY	_ 🗆 🗙
+ BackupEDGE Installation / Upgrade / Configuration	+
+BackupEDGE Configuration	+
Please select the BackupEDGE subsystem to configure.	
  Machine: scosysv	
+   -> Autodetect New Devices	+
Schedule Nightly Backups	i i
Configure BackupEDGE Web Interface	
Autodetect Virtual (Sparse) Files	
Configure Java Paths	I I
Configure Amazon S3 Backups	
  +	+1
hi <u></u>	i
[Configure]	[Done]
+ (c) Copyright 1997-2010 by Microlite Corporation	-

Example 12: BackupEDGE Configuration Options

Setting Auto Detection of New Devices 5) There should be an arrow positioned to the left of Autodetect New Devices. If not, use the arrow keys to make this selection. You should also see that the Configure field located at the bottom left corner of the screen is highlighted. Make sure that both selections are indicated, and press *Enter*. Screen 13 displays, as shown below.



Example 13: Device Autodetection Message

Scanning for Valid
6) Notice the Device Autodetection message displayed on-screen. Make sure that the BackupEDGE CD-ROM is still in the CD drive, and that any other backup equipment is connected and/or has media installed. Press *Enter* to continue with the autodetection.
In Example 14 on the next page the Optical Drive is the only resource selected. Your system may have other types of devices available, such as a tape drive, but the tape backup method is no longer the recommend backup medium. PressureMAP users now favor other, higher capacity, less expensive backup methods, such as CD-ROM, DVD-RAM, etc.
For each screen presented, make sure that the Next field is highlighted, and press the *Enter* key to continue.

2 10.1.2.16 - PuTTY			- [D] ×
			A
+ BackupEDGE Resourc	e Information 🗧		+ 🦳
- General Resource	Information		1
Resource Type	Optical Drive		1
Resource Name	[optical0	] Change as appropriat	e í
Description	[ATAPI iHAS122 8	3LO1 ]	L.
Changer Assoc			I.
Interface	[SCSI ]		I.
Control Node	[/dev/rcd0	1	I.
- CD / DVD / Optica	l Information		1
Data Node	[/dev/cd0	] [ ] Buffer	Whole Disc?
Mount Device Node	[/dev/cd0	] [X] BurnPr	oof(tm)?
Record Buffer (K)	[2048	] [ ] Multip	le Archives?
Needs Eject?	[]		
Writable Media:	CD-R[W], DVD-RAM	, DVD+/-R[W]	
- Default Backup Pr	operties		1
Volume Size	[0 ]	[S] Compression Level [5	] [
Edge Block Size	[64 ]	[Y] Double Buffering	
[[Next]		[Prev]	[Cancel]
			La.
+			<b>-</b>

Example 14: BackupEDGE Resource Information – CD (Optical) Drive

7) When the Backup Information message appears in the center of the screen, indicating that bootable backups on these drives are not the default setting (Example 15), continue with the configuration procedure by pressing *Enter*.

🚰 10.1.2.16 - PuTTY	
+ BackupEDGE Resource Information	+ 🔺
- General Resource Information	
Resource Type Optical Drive	1
Resource Name [optical0 ] Change as appropria	te
[Description [ATAPI iHAS122 8 3LO1 ]	1
Changer Assoc +BackupEDGE Information	+ 1
Interface  One or more detected backup resource are	L L
Control Node  capable of being used to Crash Recover your	L. L
- CD / DVD / Opt machine. If you want to enable bootable	
Data Node  backups on these devices, please refer to	Whole Disc?
Mount Device Nod the BackupEDGE manual. By default, backups	oof(tm)?
Record Buffer (K will NOT be bootable.	le Archives?
Needs Eject?	L L
Writable Media:	Li Li
	Li L
- Default Backup	[]
Volume Size	1] []
Edge_Block Size	L L
[Next]  [Next] [Exit]	[ [Cancel] ]
+	+ 1
E contraction of the second seco	1
E. C.	1
	1
	L
+	💌

Example 15: Bootable Backup Resources Message

Configuring Devices

The next screen that appears, Example 16, asks if you would like to create a resource for file transport protocol (FTP) backups.

🚰 10.1.2.16 - PuTTY			×
+ BackupEDGE Installation / Upgrade / Configuration		+	-
+			
Would you like to create a BackupEDGE  resource for FTP backups now?	URL   		
+Please		+	
+		+	
   () Yes, create one   (X) No			
	'   [Evit]		
+	+		
+ (c) Copyright 1997-2010 by Microlite Corporation			+

Example 16: BackupEDGE FTP Resource Message

8) Notice that the default selection is No for FTP resource creation. Since the purpose of these instructions is to describe how to set up a CD-ROM drive for BackupEDGE, press *Enter*. You can always return to the Configuration Screen at a later time to configure the FTP resource or other resources, if desired.

After selecting **No** and pressing *Enter*, the BackupEDGE Configuration Options Screen redisplays (Example 17).



Example 17: BackupEDGE Configuration Options

9) At this point, use the arrow keys to highlight the **Done** field in the lower right corner, and press *Enter*.

This will return you to the Main Edgemenu Screen (Example 18). Now, it's time to select the default backup device (primary resource). This setting can be changed at a later time, if desired.



Example 18: Main Edgemenu Screen

 Using the left arrow key, first highlight the Admin field and then arrow down and select Set Default Backup Resource. Press Enter. The Select Primary Device Screen (Example 19) displays.



**Example 19: Primary Device Selection Screen** 

Selecting Default Backup Device This screen includes a Resource List with an arrow designating **optical0** as the primary backup device. This device represents your computer's CD/DVD-ROM drive. Similar screen information is displayed for the other backup resource types.

11) Use the down arrow, if necessary, to select the desired primary backup medium from the Resource List located on the left center portion of the screen. Then, with Next highlighted (near the lower left corner), press *Enter*. The software will return you to the Main Edgemenu Screen with the activation information displayed in the Primary Resource section (Example 20).



Example 20: Main Edgemenu Screen Showing Selected Primary Resource

## Section 3: BackupEDGE Registration

At some point after configuring your device resource, it will be necessary to take care of the registration process for BackupEDGE. The first requirement is to enter the serial number to fully unlock the software. This takes the software out of Demo / Evaluation mode, which lasts for a period of 30 days.

### **Procedure:**

 Use your right arrow key to navigate to the Setup submenu, then press Enter. The available options will display, as shown in Example 21 below.

🚰 10.1.2.16 - PuTTY		
+ Edgemenu for BackupEDGE +		+ _
[File] [Backup] [Restore] [Veri	fy] [ <mark>Å</mark> dmin] [Se <mark>t</mark> up] [ <mark>S</mark> chedule]	
		+ +
	[Activate BackupEDGE]	
	[Make Recoverings media]  [Enable Advanced]	
	[	
	[[Configure BackupEDGE]	1 T
		+
I Drimeru Desource : scosusy:ontic	ellonticelO (/dev/cdO) ()TDDI iH)S122	8 1
Compress: Soft, HW Block: 2048	. Edge Block: 64. Partition: C	
	, Lage Prook. Of, Tarororon. C	
1		i
1		i i
Last Master Backup: NEVER		1
+Local Machine: scosysv	Administering: scosysv	+
+Register your copy of BackupEDGE		-

**Example 21: Setup Submenu Options** 

2) If **Activate BackupEDGE** is not already highlighted, use the up arrow to highlight it, then press *Enter*. This generates the Serial Number Entry Screen (Example 22).



#### **Example 22: Serial Number Entry Screen**

Entering the BackupEDGE Serial Number 3) Type the serial number from the license agreement included with your BackupEDGE software. After entering your serial number, press the *Tab* key and then the down arrow to highlight the **Next** field. Hit *Enter* and the screen in Example 23 displays.



#### Example 23: Registration Information Screen

Completing the Registration Information 4) Enter the required registration information using the down and up arrow keys to navigate between fields on the screen. It is important that you fill in each of the fields. If one or more of them does not pertain to your registration, simply enter *NA*. When you have finished with the registration information, highlight the **Save** field at the bottom left and press *Enter*. After the registration information has been saved, you will see your completed information in a screen similar to the one shown in Example 24.

🚰 10.1.2.16 - PuTTY				_ 🗆 ×
+ BackupEDGE Product	: License Manager			+ 📥
+   [ <mark>New</mark> ] [ <mark>S</mark> end] [ <mark>A</mark> ct +Add A Serial Numbe	civate] [ <mark>D</mark> elete] [ <mark>I</mark> nf er	to] [ <mark>C</mark> uit]		+   +
Company Name: Syste	em Studies Inc.			
Product Type: sco5u	1	System Name:	scosysv	
EDGE Version: 03.00	0.01	Operating System:	5.0.7Hw	
Serial Number	Feature	Status	Expires	
XAD3000054	Base License	Demo	2010-11-14	
(None)	Encrypted Backups	Demo	2010-11-14	
.+1				;+`; 

**Example 24: Product License Manager** 

*Note*: Your saved information can be edited, if necessary, by using the arrow keys and navigating to the **Info** menu selection at the top of the screen. Add a new serial number by selecting **New** from the menu.

Registration Note

Permanent Activation requires that you send the registration form that was supplied with the BackupEDGE CD-ROM to Microlite Corporation, who in turn, will supply you with an Activation Code. Once you receive the Activation Code, you will need to enter it using the **Activate** field at the top of the Product License Manager screen.

5) Highlight the **Send** option in the BackupEDGE Product License Manager to either print or send the information via email. A screen similar to the one in Example 25 will display.



**Example 25: Send Registration Information Options** 

*Note:* Since a new PressureMAP System will not have email configured, it is recommended that you print your BackupEDGE registration. You can then mail or fax it to Microlite Corporation. The steps below address the procedures for printing the registration information. Please note that you can also make a registration disk, step 8, and use the generated text file on another computer to register via email.

Another option is to scan the registration information once it has been printed (step 6 below) and email the image or PDF document to Microlite Corporation. Printing Registration Information 6) To print the registration information, use the up and down arrow keys to move between options, and press the space bar to select or unselect an item. Choose one of the three print options listed, then highlight Next and press *Enter*. The information will be printed to the designated printer. The following screen message appears (Example 26).



Example 26: Registration Print Confirmation Message

7) With **Ok** selected, press *Enter*. The Microlite License Manager Screen redisplays, as shown in Example 27.

📕 10.1.2.16 - PuTTY				_ 🗆 🗵
+ BackupEDGE Product	License Manager			+ 🔺
+				+   +
Company Name: Syste	m Studies Inc.			
Product Type: sco5u		System Name:	scosysv	
EDGE Version: 03.00	.01	Operating System:	5.0.7Hw	
Serial Number	Feature	Status	Expires	
XAD3000054	Base License	Demo	2010-11-14	
(None)	Encrypted Backups	Demo	2010-11-14	
+				+ 🔻

**Example 27: Product License Manager** 

## Making a Registration Disk

If you would like to email your registration information to Microlite Corporation from a computer other than the one on which PressureMAP is installed, you can create a registration disk by following the procedure below. Displaying the registration information on screen initiates the process of copying your registration information to a text file where it can then be copied onto a CD.

8) Use the tab and arrow keys to highlight Quit at the top of the Microlite License Manager Screen, then press *Enter*. This will take you back to the Main Edgemenu Screen (Example 29) where you can select File, Exit to continue the process of leaving the BackupEDGE application.



Example 28: Main Edgemenu Screen

Next, the BackupEDGE Control Menu redisplays (Example 29).



Example 29: BackupEDGE Control Menu

9) From this menu selection, type *M* and *Enter*.

In a few moments, the following screen prompt appears:

Place a high density, blank  $3\frac{1}{2}$  disk in the floppy drive: C)ontinue M)ain Menu?

- 10) Insert a blank 3 <sup>1</sup>/<sub>2</sub> inch, high density floppy disk into the drive.
- 11) With the formatted, blank diskette in place, press C and Enter. This function copies the registration file from user/lib/edge/config/ info.register to the floppy disk as info.txt.

In a few moments the program displays the following message, confirming that the required registration information has been copied.

#### /usr/lib/edge/config/info.register has been copied to the floppy disk as info.txt

Next, the software then redisplays the PressureMAP BackupEDGE Control Menu (Example 29).

12) From the menu options, type *Q* and *Enter*.

The following message displays:

## The system will reboot. Remove any floppy disks and CDs from the drives before continuing. C)ontinue?

- 13) Remove the disk containing the **info.txt** file from the floppy drive and the BackupEDGE CD-ROM from the CD drive and type *C* and *Enter*.
- 14) When the PressureMAP Update Types Menu displays (Example 30), type *Q* and *Enter*. PressureMAP will reboot, and all designated MAP processes will be activated.



Example 30: Update Types Menu

15) Take the disk with the *info.txt* file to a PC that has email capability and email the file to *registration@microlite.com*. Remember to attach the *info.txt* file on the registration disk to the email message and send it.

After the registration information has been emailed to Microlite and processed, you will eventually receive an activation code. This code is required to fully unlock the BackupEDGE software and take it out of demonstration mode.

## **Entering the Activation Code**

To enter your activation code, you will first need to access the BackupEDGE Control Menu, and then follow the procedures presented below.

🚰 10.1.2.16 - PUTTY	
PressureMap BackupEdge Control Menu:	A.
I) nstall R) emove	
C)onfigure M)ake Registration Disk	

Example 31: BackupEDGE Control Menu

16) From the PressureMAP BackupEDGE Control Menu above, select *C*, "Configure," and *Enter*. The selection displays the Setup Submenu Options on the Main EdgeMenu Screen.

10.1.2.16 - PuTT				_0
Edgemenu for	BackupEDGE			+
+				
[File] [Bac	kup] [ <mark>R</mark> estore]	[Verify] [Ad	min] [Se <mark>t</mark> up] [ <mark>S</mark> chedule]	
÷			+	+ +
			[Activate BackupEDGE]	1
			[[Make Recoverabor Med	101
			[	
			[ <mark>C</mark> onfigure BackupEDGE	]
			+	+
+				+
Primary Reso	Soft UN Ploat	opticaliopti	calu (/dev/cdu) (ATAPI 1HAS Block: 64 Dortition: 6	122 8
Compress:	SOLC, NW BIUCK	: 2040, Luge	BIOCK: 64, PARCICION: C	
1				
1				
,  Last Master	Backup: NEVER			
+Local Machin	ie: scosysv	Admi	nistering: scosysv	+
Deviater many	gony of Poglay	FDCF		

**Example 32: Setup Submenu Options** 

17) Use the right and down arrow keys to highlight **Setup**, **Activate BackupEDGE**, as shown in Example 32. Then press *Enter*. In a few moments the BackupEDGE Product License Manager screen displays (Example 33). Notice that the status of the **Base License** field is currently set to **Demo**. This is the default pre-activation value and will change once you have entered your activation code.

🚰 10.1.2.16 - PuTTY							
+ BackupEDGE Product License Manager +							
[ <mark>New</mark> ] [ <mark>S</mark> end] [ <mark>A</mark> d +Add A Serial Numk	stivate] [ <mark>D</mark> elete] [ <mark>I</mark> ni per <mark>-</mark>	50] [ <mark>Q</mark> uit] 		+			
Company Name: Syst	em Studies Inc.						
Product Type: sco5	5u	System Name:	scosysv				
EDGE Version: 03.0	00.01	Operating System:	5.0.7Hw				
Serial Number	Feature	Status	Expires				
XAD3000054	Base License	Demo	2010-11-14				
(None)	Encrypted Backups	Demo	2010-11-14				
+				+			

**Example 33: Product License Manager** 

18) Use the right arrow key to advance the cursor to the **Activate** field near the top of the screen, then press *Enter*. At this point a new screen will appear (Example 34) from which you can enter the activation code supplied by Microlite for your product.

📑 C:\WINNT\system32\telnet.exe	
+ BackupEDGE Product License Manager	. + 🗖
: []ew] []end] []ctivate] []elete] []nfo] []uit] +Enter an Activation Code	
Company Name: System Studies Incorporated Product Type: sco5u System Name: pee4	
Please enter one or more BackupEDGE Activation Codes separated by ',' .	
[Next] [Ca	ncell
+	+

**Example 34: Activation Code Entry Screen** 

19) Carefully type the activation code into the highlighted field, making sure it is accurate before proceeding. Once the correct code has been entered, press *Enter*. The Product License Manager screen redisplays, showing an Acti-vated status for the Base License feature (Example 35).

🚰 10.1.2.16 - PuTTY				_ 🗆 🗙			
+ BackupEDGE Product License Manager							
+   [ <mark>New</mark> ] [ <mark>S</mark> end] [ <mark>A</mark> ctivate] [Delete] [Unfo] [Cuit] +Add A Serial Number							
Company Name: Syste	m Studies Inc.						
Product Type: sco5u	1	System Name:	scosysv				
EDGE Version: 03.00	).01	Operating System:	5.0.7Hw				
Serial Number	Feature	Status	Expires				
XAD3000054	Base License	Activated	2010-11-14				
(None)	Encrypted Backups	Disabled	2010-11-14				
a magnala (haranga							
+				+			

Example 35: Product License Manager

20) Use the right arrow keys to highlight the **Quit** data field, then press *Enter*. A version of the Edgemenu Screen displays indicating that your copy of BackupEDGE is now licensed.



**Example 36: License Status Screen** 

21) Move the cursor over to the **File** data field on the top left of the control line, and select **Exit** to leave the BackupEDGE software. This generates the PressureMAP BackupEDGE Control Menu (Example 37).



Example 37: PressureMAP BackupEDGE Control Menu

22) Type **Q** and **Enter**. At this point you will see the following prompt:

The system will reboot. Remove any floppy disks and CDs from drives before continuing. C)ontinue?

23) Remove the BackupEDGE installation CD ROM, and type *C* and *Enter*. The PressureMAP Update Types screen displays as shown below.

📌 10.1.2.16 - PuTTY		<u>_0×</u>
Update Types 09/15/2010 11:29	*Schedule Off*	MAP Series 27.00.08 System Studies Incorporated
Type of Update Type of Update 1. System Update 2. Supplemental Update Q. Quit		
Choice?		•

Example 38: Update Types Menu

24) Type **Q** and **Enter**. The PressureMAP system will now reboot, and all designated MAP processes will be activated.

This completes the registration and activation process for BackupEDGE. You will now be able to use the application to create daily archives of your PressureMAP system data and file systems.

## Section 4: BackupEDGE Setup Requirements in PressureMAP

Once you have installed BackupEDGE, configured the desired backup resource, and registered the product for use, you will need to establish the default backup criteria in PressureMAP. This requires a simple setup procedure that needs to be performed in the PressureMAP System Administration Menu.

### **Procedure:**

- 1) Log onto the PressureMAP system and access the System Administration Menu as described in Steps 1 and 2 on page 4 of this document.
- From the menu selection, choose option *I*, Set Default Daily
   Backup Resource and press *Enter*. This produces the Default Backup Selection Menu shown below.

₽ 10.1.0.119 - PuTTY	_ 🗆 🗵
Select a default Backup type (currently set to TRADITIONAL) 01/27/2011 09:17 *Schedule Off* System Studies Incorpore	ated
Select a default Backup type (currently set to TRADITIONAL)	
1. Traditional Backup Method 2. BackupEDGE Backup Method Q. Quit	
Choice? 📕	

**Example 39: Default Backup Selection Menu** 

3) Notice that there are two options available for backing up PressureMAP. Press option 2 and *Enter* to select the BackupEDGE Backup Method. This entry produces the Daily Backup Resources Menu shown below.



Example 40: Daily Backup Resources Menu

This menu displays the BackupEDGE device resources that were configured in Section 2, plus options to set the number of backup slots for these resources.

4) In this example, two backup resources are available: option 1 (optical) and option 2 (url). Only one resource at a time can be designated in Pressure-MAP. Select your desired daily backup resource and press *Enter*. The following screen information displays, indicating that you have successfully enabled BackupEDGE as your daily backup source.

Successfully replaced BackupEDGE schedule item! Traditional daily backups disabled successfully! BackupEDGE daily backups enabled successfully!

Hit <Return> to continue.

5) Press *Enter* to remove the screen message. Now you will need to designate how many slots (number of daily backups) you would like to store on your designated backup resource.

 ! Important !
 PressureMAP will allow you to retain 1 to 25 backups on a selected device resource, but not all backup devices can accommodate the full number of slots. It is your responsibility to assess the backup requirements of your PressureMAP system and the capacity limitations of your backup resource before you make the slot selection.

For example, if you select 7 slots for a url device resource (ftp backup to a network computer), the network computer must have the necessary storage capacity for this number of backups. If it does not, BackupEDGE will store

the most current backup in the last available slot that accommodates the full daily backup capacity requirement. Consequently, your network computer may allow fewer daily backups than you would like to retain.

Please consult the BackupEDGE User Guide for more specific information on the type of backup resource you are using. This online information will help you to maximize the number of slots your resource can utilize.

6) First enter the menu option number which represents the daily backup resource that you selected in step 4 above. The following screen information displays (showing the option 4 selection):

BackupEDGE current setting for type optical is 1 This means the backup will occur daily and 1 backups will be kept. How many backups would you like to keep for type op-

tical (1)?

7) Enter the desired number of slots for the selected device resource, followed by *Enter*. Information similar to what is shown below displays at the bottom of the Daily Backup Resources Menu screen.

You entered "2". Is this correct (y or n)?

8) Selecting *N* and *Enter* to the prompt above allows you to make the necessary change. The prompt will then redisplay. When you are ready to confirm your entry, press *Y* and *Enter*.

Successfully modified /var/map/EDGE\_BKUP\_GEN.TXT with optical:2

#### Hit <Return> to continue.

9) Press *Enter* to complete the procedure.

Recommended<br/>Optical BackupPlease note that if you choose to use an optical device resource for BackupEDGE,<br/>you are advised to use either a DVD+RW or DVD-RW which will give you 4.8 GB<br/>of storage and can be used over and over.Usage NoteSystem Studies recommends switching out the DVD for a new one approximately<br/>once a month. Rewritable DVDs have a tendency to go bad after a number of re-<br/>writes. It would also be a good idea to create a weekly backup DVD that is a separate<br/>DVD. The idea here is to create and retain a few backup DVDs that you can rely on<br/>in case something happens to the daily DVD.

## Section 5: RecoverEDGE Boot Medium Creation

Overview	This section of the BackupEDGE Installation & Configuration document explains the important process of creating a RecoverEDGE CD to use for crash recovery. Crash recovery is the process of rebuilding a PressureMAP system after a hardware disaster (disk drive failure, bad motherboard, etc.) without having to separately re-install the operating system, device drivers, PressureMAP/PressureWEB applications, and PressureMAP system data. The crash recovery software component, RecoverEDGE, automates boot media creation and testing. It also provides an easy menu-driven user interface for the disaster recovery process described in the next section.
!Important!	Please note that you will need to create a separate RecoverEDGE bootable CD for each of your PressureMAP systems using the default resource specified for the sys- tem in Edgemenu. (This applies also to your spare computer.) If you later change your BackupEDGE default resource for a particular system—for example, if you change from DVD backups (optical drive) to ftp backups on a network computer (url resource), you will need to create a new RecoverEDGE CD for the url resource.
	Once again, please note that for simplification purposes this document describes backup and disaster recovery procedures for an optical device resource only (CD/DVD). If you intend to use other supported device resources, you should consult the BackupEDGE 03.00.03 User Guide for more specific information. The user guide is available in PDF format from the Microlite Corporation website (www.micro-lite.com).
Recommended RecoverEDGE Boot Medium	<i>Note</i> : System Studies recommends using a CD-R for making your RecoverEDGE bootable CD. You should also label it with the proper descriptive information, such as "RecoverEDGE for MACHINE_NAME or Disaster Recovery CD for MA-CHINE_NAME". Then store the CD at a location near the server for quick access during emergencies.
	After a backup of your PressureMAP system has been made using BackupEDGE and you've created and tested your RecoverEDGE bootable CD for the system (as described below), your system will be fully protected against loss of data from a hardware crash. If a failure were to occur, for example, you could use a spare computer or the repaired original and the RecoverEDGE CD created for that specific computer to restore your system.
	The CD boots directly into the RecoverEDGE system which then provides menu- driven recovery instructions. After RecoverEDGE prepares the hard drive(s) loads the kernel and files systems, you can use your BackupEDGE medium to restore the operating system, PressureMAP data, user information, etc. In most cases, the entire process can be completed within 10 to 15 minutes.

RecoverEDGEThere are several important considerations and requirements associated with the<br/>crash recovery process:

1) RecoverEDGE must specify the same primary default resource that you selected for your backups in Edgemenu during the BackupEDGE Configuration process. This ensures disaster recovery/data restoral compatibility.

When you create the bootable RecoverEDGE CD for your system, the selected primary backup resource is displayed (assuming you have already set your default device resource). For example, if you configured an optical drive to use for BackupEDGE, you would see this resource listed in Edgemenu when you begin the boot media creation procedure. If, later on, you desire to create backups on a LAN using the url (ftp) backup resource, you would then need to change the default primary resource in Edgemenu and create a new RecoverEDGE CD for the url resource.

- 2) It is important that you create a RecoverEDGE CD for each of your PressureMAP systems, including your backup computer. The RecoverEDGE CDs need to be carefully labeled and stored in an accessible location so that they can be quickly retrieved if necessary.
- 3) If you need to update or replace a defective hardware component in your PressureMAP computer, the replacement com-ponent should be identical to the original one, if possible (same manufacturer part designation, for example). If it is not, you will need to create a new RecoverEDGE boot CD for the computer.

To better understand your options for a quick and successful disaster recovery, please review the following section in the BackupEDGE User Guide (Version 03.00.03): 24 -- Crash Recovery - Preparation on page 225.

Creating theThe instructions below describe how to create a bootable CD for your PressureMAPBoot CDcomputer. Immediately following these procedures is a description of the Recover-<br/>EDGE boot medium test procedure.

## **Procedure:**

1) Log onto PressureMAP and access the System Administration Menu. For information on finding this menu, refer to steps 1 and 2 on page 4 of this document.

 From the System Administration Menu, select option 20, BackupEDGE, and press *Enter*. The PressureMAP BackupEDGE Menu displays as shown below.

🛃 10.1.0.119 - F	PuTTY					
BackupEDGE 01/19/2011 	16:28	*Schedule	Off*	System	MAP Series Studies Inc	28.00.D0 orporated
BackupEDGE						
1. Launch Q. Quit	EdgeMenu					
Choice? 📕						
						•

Example 41: PressureMAP BackupEDGE Menu

3) Select option 1, Launch EdgeMenu, followed by Enter. At the prompt: Do You Wish To Launch Edgemenu? Y[es], N[o], press Y and Enter. This produces the Main EdgeMenu Screen.



Example 42: Main Edgemenu Screen

Please note that the procedure below assumes that a backup resource (in this case, an optical device resource) has already been configured for Backup-EDGE as the primary resource. If you have not yet selected a default backup resource, you will need to do so as described in the BackupEDGE Configuration section of this document before proceeding. The RecoverEDGE boot CD that will be created in the steps below retrieves the backup archive for the default primary resource during the crash recovery process.

4) Initially the cursor is positioned on the File menu heading at the top of the screen. Use the right arrow key to highlight Setup. Then arrow down and highlight Make RecoverEDGE media (Example 43).

Ē	10.1.0.119	) - PuTTY						_ [] :	×
Г	Edgemen	u for Bacl	kupEDGE 💾						*
	[File]	[ <mark>B</mark> ackup]	[ <mark>R</mark> estore]	[ <mark>V</mark> erify]	[ <mark>A</mark> dmin]	[Se <mark>t</mark> up]	[ <mark>S</mark> chedule]		
						[Activa	ate BackupEDGE] PecoverEDGE Media	,	
						[Enable	Advanced]	·	
						[ <mark>C</mark> onfig	gure BackupEDGE]		
	Primary Compre	Resource ess: Soft,	: localdon , HW Block	main:optio : N/A, Eo	cal!optic dge Block	alO (/da :: 64,	ev/hdc) (SONY DVD Partition: C	RW	
	Last Ma	ster Back	up: NEVER						
	Local M	achine: lo	ocaldomain		Administe	ring: lo	ocaldomain		
L	Create B	oot Media	(re2)						•

Example 43: Edgemenu Setup Submenu Options

5) Press *Enter* to start the RecoverEDGE medium creation process. After a few moments the screen refreshes and displays a list of RecoverEDGE Media / Image Types for selection. Arrow down to highlight Boot Media on optical0 (Screen 44). Press *Enter* to continue.



Example 44: RecoverEDGE Media Selection Menu

*Note:* Once again, the preferred optical medium to use for RecoverEDGE is a CD-R disk. This type of medium has proven to be more trouble-free than the other types of CD media available.

6) Next, the RecoverEDGE Media Generator Screen displays (Example 45). Make sure that **Continue** is highlighted, then press *Enter*.

g <sup>2</sup> 10.1.0.119 - PuTTY	
RecoverEDGE Media Generator	<b>_</b>
[Make Media] [Configure] [Cptions] [Report] [Dout] [Cuit]	
Create Media / Image	
Ready To Make Image(s) Please Test New Image(s)	
[Continue] [Cancel]	
Create Node: opticalO OS: Linux version 2.6.18-92.el GRUB: Enabled	
Temp Device: /dev/loop0 System: mini-me.airtalk.com Format: Yes Verify: Yes Kernel: /boot/ymlinuz-2.6.18-92.el5	
RecoverEDGE Recovery System 03.00.03 (c) Copyright 1997-2010 by Microlite	Corp. 🗸

Example 45: RecoverEDGE Media Generator Screen

This command begins the boot media initialization process, which takes a few minutes to complete. Information similar to what is shown in the example below displays during the process.



**Example 46: Media Generation Status** 

7) When **Make Media** displays, press *Enter*. The screen information indicates that the write process is underway.



Example 46: Making Media Message

8) After a minute or two, the RecoverEDGE Media Generator indicates that the bootable medium has been created successfully (Example 48). Press **OK**.

<sub>음</sub> 위 10.1.0.119 - PuTTY	<u>-                                    </u>
RecoverEDGE Media Generator	
[Make Media] [Configure] [Cptions] [Report] [Bout] [Cuit]	
[NOTICE]	
Bootable Medium Created Successfully!	
Create Node: optical0 OS: Linux version 2.6.18-92.el GRUB: Enabled	
Temp Device: /dev/loop0 System: mini-me.airtalk.com Format: Yes Verify: Yes Kernel: /boot/vmlinuz-2.6.18-92.e15	
RecoverEDGE Recovery System 03.00.03 (c) Copyright 1997-2010 by Microlite	Corp. 🗸

Example 48: Successful Boot Medium Creation Message

9) The next screen that appears stresses the importance of testing the RecoverEDGE CD before you can consider it to be valid (Example 49). A description of the testing process is offered in the next set of procedures. At this time press **OK** to proceed.

g <sup>2</sup> 10.1.0.119 - PuTTY	_ 🗆 🗙
RecoverEDGE Media Generator	— <u> </u>
[Wake Media] [Configure] [Cptions] [Report] [Noout] [Cuit]	
NOTICE Successfully Created Recovery Media You MUST Test This Media BEFORE Relying On It! [ Ok ] Press 'F1' for detailed help	
Create Node: optical0 OS: Linux version 2.6.18-92.el GRUB: Enabled Temp Device: /dev/loop0 System: mini-me.airtalk.com Format: Yes Verify: Yes Kernel: /boot/vmlinuz-2.6.18-92.el5	Corn

**Example 49: Media Test Notice** 

10) The RecoverEDGE Media Generator Screen refreshes, and the cursor is positioned in the menu box located at the top of the screen (Example 50). If Quit is not already highlighted, arrow over to the right to highlight Quit, then press *Enter*.



Example 50: RecoverEDGE Media Generation

11) This returns you to the Main Edgemenu Screen (below). *Important*: Before proceeding to the boot medium testing procedure, remove your CD from the optical drive and label it. The label should identify the PressureMAP system name and indicate that it is a recovery disk.

10.1.2.16	- PuTTY							_ 🗆 ×
+ Edgemen	u for Bacl	kupEDGE 📕						+ •
+   [ <b>File</b> ] +	[Backup]	[Restore]	[Merify]	[ <mark>2</mark> dmin]	[Setup]	[Schedule]		+   +
+								+
Primary   Compr	Resource ess: Soft,	: scosysv: , HV Block:	2048, E	dge Block	(/dev/cd k: 64,	O) (ATAPI : Partition:	C	°     
Last Ma	ster Back	up: NEVER		Idminist	ering. g	oavav		
+View Fil	es, Choose	e Machine		AUGULIIISU	trang. ot	.00907		

#### Example 51: Main Edgemenu Screen

12) With the cursor highlighting **File**, scroll down and select **Exit** to leave the BackupEDGE software.

# Section 6: RecoverEDGE Boot Medium Testing

Testing Requirements Testing the RecoverEDGE boot medium requires that you shut down the Pressure-MAP system for a period of approximately five to ten minutes. Before you begin, you will need the following materials:

- RecoverEDGE bootable CD (as described in the previous section).
- Current BackupEDGE backup of the PressureMAP system on CD, DVD or remote destination such as URL (ftp backups).

Please note that the testing procedures described below can only be performed at the PressureMAP system console. You will need access to the machine's power switch and optical drive.

## **Procedure:**

 Place the RecoverEDGE CD in the CD/DVD tray and reboot the system. Rebooting the system can be performed using option 6, Shutdown and Reboot the Computer, at the PressureMAP System Administration Menu.

During boot up you will see several screens of data scroll by, followed by the RecoverEDGE screen shown below.



Example 52: RecoverEDGE Screen

 Using the arrow keys, highlight the type of boot desired from the options listed. For most installations select the normal mode boot option—for example, if your backup is on a CD or DVD, select normal mode and press *Enter*. If your backups are kept at a remote location (ftp backups), you would select the network recovery boot option.

After a few moments the RecoverEDGE Recovery System screen appears, as shown below.



Example 53: RecoverEDGE Recovery System Screen

3) Make sure that the Test Media option (Non-Destructive Recovery Test) located at the top of the screen is highlighted, then press *Enter*. Another selection box appears with a prompt asking if you wish to proceed with non-destructive test. Make sure that Yes is highlighted and press *Enter*.



**Example 54: Proceed with Test Prompt** 

The next screen that appears (Example 55) requests that you insert the RecoverEDGE boot CD.

+	[Restore] [Configure] [Utilities] [Remote] [About] [Quit]
	+NOTICE
	[ Ok ]
+ F1: Help 1	F2: Exit

Example 55: Media Request Prompt

4) Place the bootable CD into the CD/DVD drive and press *Enter*. Another screen displays requesting final input to start the process (Example 56).

[ <mark>Test Media</mark> ]	[Restore]	[ <mark>C</mark> onfigure]	[ <mark>U</mark> tilities]	[Re <mark>m</mark> ote]	[ <mark>A</mark> bout]	[ <mark>O</mark> uit]
	+Selection	Box				
	Ready	To Test Driv	ve - Press OK	To Start		
				[Cancel]		
+ F1: Help I + RecoverEDGE R	F2: Exit	tem 03.00.03	© Copyright	1997-2011	by Micro	lite Corp

Example 56: Start Test Prompt

5) Press **OK** to proceed. During the testing process OS Directory information scrolls by, and eventually Level 1 Summary verification is displayed. Notice the status of **ALL OK!!** near the bottom of this page.

```
SUMMARY - LEVEL-1 VERIFICATION
Serial Number
                       = RecoverEDGE
Date
                       = Thr Jan 29 14:41:04 2011
Data Read
                       = 627.37MB
Elapsed Time
                       = 00:01:29
                       = 24.767 \text{ GB/hr}
Data Transfer Speed
                       = 422.949 MB/min
                       = 7391577 bytes/sec
Files Encoutered
                       = 67576
Status
                       = ALL OKAY!!
                       = 0
Exit Status
Press Any Key To Return To RecoverEDGE....
```

6) Press the <space> bar to return to the main RecoverEDGE screen. The first message box that appears indicates that the edge listing was successful (Example 57).



Example 57: Edge Listing Notice

7) With **OK** highlighted, press *Enter*. Another message appears indicating that the RecoverEDGE media test was successful Example 58).

+   [[ <mark>Test Media</mark> ]   +   +	[Restore] [Configure] [Utilities] [Remote] [About] [Quit]
	NOTICE
+   	F2: Exit

**Example 58: Test Completion Notice** 

8) Press *Enter* again, and the final Non-Destructive Recovery Test selection box appears, with the option to exit the testing process.



Example 59: RecoverEDGE Exit Screen

- 9) With **OK** highlighted, Press *Enter* to exit the RecoverEDGE menu.
- 10) Remove the RecoverEDGE CD or DVD from the optical drive tray, and store it in a protection case.
- 11) Next power off the machine using the power switch, and wait approximately 15 seconds. Now turn the machine back on without any CD or DVD in the system. Follow the instructions in the *PressureMAP System Administration manual* to boot the system and place PressureMAP online.

## Section 7: Disaster Recovery

Overview	This section explains the process of utilizing the RecoverEDGE CD and most recent BackupEDGE system backup to rebuild a PressureMAP system after a hardware fail- ure. During disaster recovery, it is important to understand your options for a quick recovery.					
	Please review the following section in the BackupEDGE User Manual (Version 03.00.03): 24 - Crash Recovery - Preparation on page 225).					
	The first step in preparing for a quick response to a potential hardware disaster is to make sure that you have a RecoverEDGE CD created for each of your PressureMAP systems, including the spare system. If you want to be able to recover from a DVD or other device, such as a url/ftp style backup, you will need to create a RecoverEDGE CD for each device resource. (Follow the instructions in Section 5 of this document.)					
Same Machine Recovery	If you intend to restore to the same machine after a disaster and repair, you would use your RecoverEDGE CD to boot the system, and then restore system data from your backup archive. If, for some reason, the system does not work after this process, you should follow the directions below for rebuilding a system on different hard- ware.					
Spare Computer Recovery	If would like to restore a system to a spare computer—one that has the identical hardware configuration and components as the original—you can use the Recov- erEDGE CD created for the spare computer for this purpose. The RecoverEDGE CD will allow you to restore data from the BackupEDGE archive, using the same IP ad- dress and other information as the original. The entire recovery process can be com- pleted in approximately ten minutes. Make sure that the original system (the one wit the problems) is powered off before restoring to the spare computer. <i>Note</i> : It is im- portant for ongoing support to inform System Studies' Technical Support Depart- ment that you have moved the system to the spare computer.					
	If, for some reason, the system doesn't work after you attempt to restore to the spare computer, you should follow the instructions below for rebuilding a system on different hardware.					
Rebuilding a System on Different	Rebuilding the PressureMAP/PressureWEB system on a different hardware platform requires the following:					
Haroware	Installation of the operating system (either Linux CentOS 5.2 or SCO UNIX 5.0.7, whichever is applicable) and the PressureMAP/PressureWEB applications—refer to the PressureMAP documentation for instructions.					
	2. Installation of the office and customized files from the BackupEDGE archive medium—refer to the <i>Rebuild a System</i> procedure in the <i>PressureMAP System Administration Manual.</i>					
	3. If the system that is being rebuilt is on a network, the LAN connection will need to be reconfigured after the rebuild is complete. Refer to the <i>Network Administration</i> section of the <i>PressureMAP System Administration Manual</i> for					

instructions on each part of this process. It involves the following procedures: *Disconnect the MAP System from the Network, Connect the MAP System to the Ethernet LAN*, and *Set the Gateway IP Address*.

It is also important that you call System Studies' Technical Support Department and provide them with the number of the system you are trying to restore. It is important that they are aware of what is happening with the system.

Once you have completed the restore process, PressureWEB should be checked to ensure that offices are being called and that information is being processed correctly. Check System Errors by clicking on the *All Offices* link, then clicking on the *System Errors* link. If you encounter any problems or have any questions, please contact System Studies Technical Support.

## Author's Note Please be advised that screen samples are not yet available for the Disaster Recovery procedure. A revised document or supplemental pages will be provided once this information becomes available.

## Section 8: BackupEDGE Software Removal

If, for any reason, you need to remove the BackupEDGE software from your PressureMAP computer, you can do so easily by following the basic procedures described in the first eight steps below. The removal process begins when the PressureMAP BackupEDGE Control Menu displays on the screen (Example 60).



Example 60: BackupEDGE Control Menu

### **Procedure:**

 To remove the BackupEDGE application from your PressureMAP system computer, type *R* and *Enter* from the PressureMAP BackupEDGE Control Menu. Notice that the following prompt displays:

## Are you sure you want to remove BackupEDGE software: Y)es N)o

2) Type *Y* and *Enter* to proceed.

In a few minutes the screen will display some additional information, as shown in Example 61.

3) When you see a screen prompt indicating that the removal is complete, take the CD-ROM out of the CD/DVD tray, and type *Q* and *Enter* to quit.



Example 61: BackupEDGE Removal Process Data

# Section 9: Exiting the BackupEDGE Application

## Procedure:

 Use the tab and arrow keys to highlight Quit at the top of the screen, then press *Enter*. This will take you back to the Main Edgemenu Screen (Example 62) where you can select File, Exit to continue the process of leaving the BackupEDGE application.



Example 62: Main Edgemenu Screen

After you have selected **File** and **Exit** from the Main Edgemenu Screen, the software will display the PressureMAP BackupEdge Control Menu (Example 63).



Example 63: BackupEDGE Control Menu

*Note*: Remember that PressureMAP's services have been down (inactive) during the process of installing and configuring the BackupEDGE software. Since the procedures described in this document are performed in conjunction with a Supplemental Update, the operating system will need to be rebooted after you have quit the BackupEDGE configuration process. It is important to completely exit or quit the BackupEDGE application so that the system can be rebooted and the MAP processes resumed.

2) From the PressureMAP BackupEDGE Control Menu (Example 63), type *Q* and *Enter*. The message below displays:

The system will reboot. Remove any floppy disks and CDs from drives before continuing: C)continue?

3) Remove the BackupEDGE installation CD-ROM, and type *C* and *Enter*.

The PressureMAP Update Types menu displays next, as shown below.

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		· · · · · · · · · · · · · · · · · · ·
Update Types		MAP Series 27.00.08
09/15/2010 11:29	*Schedule Off*	System Studies Incorporated
Type of Update		
1 Swatem Wodate		
2. Supplemental Update		
Q. Quit		
Choice2		

Example 64: Update Types Menu

4) Type *Q* and *Enter*. The PressureMAP system will then reboot, and all designated MAP processes will be activated.

 Rebooting
 This completes the instructions for installing and configuring the BackupEDGE /

 PressureMAP
 RecoverEDGE applications. The software can be reconfigured at any time to provide backups to other sources, as desired. Simply select Define Resources from the BackupEDGE Admin submenu. Additional information about BackupEDGE capabilities and configuration can be obtained from the BackupEDGE User Guide, available in PDF format from the Microlite Corporation website (www.microlite.com).