



VistA Blood Establishment Computer Software (VBECS) Version 1.5.1

Patch Installation Guide

February 2011

Department of Veterans Affairs
Product Development

This page intentionally left blank.



Unauthorized access or misuse of this system and/or its data is a federal crime. Use of all data must be in accordance with VA security and privacy policies.



The U.S. Food and Drug Administration classifies this software as a medical device. Unauthorized modifications will render this device an adulterated medical device under Section 501 of the Medical Device Amendments to the Federal Food, Drug, and Cosmetic Act. Acquiring and implementing this software through the Freedom of Information Act requires the implementer to assume total responsibility for the software and become a registered manufacturer of a medical device, subject to FDA regulations. Adding to or updating VBECS software without permission is prohibited.

This page intentionally left blank.

Revision History

Date	Revision	Description	Author
06-16-10	1.0	<p>Modified VistA Blood Establishment Computer Software (VBECS) Version 1.5.0.0, Version 5.0 for VBECS 1.5.1:</p> <p>Global: Replaced 1.4.0.0 with 1.5.0.4</p> <p>Global: Replaced 1.5.0.0 with 1.5.1.1</p> <p>Global: Replaced “....072409” with “...060910”.</p> <p>Revised footer.</p> <p>Revised Title header and footer changed to from “1.5.1.0” to “1.5.1” and where applicable in the document.</p> <p>Introduction: Reworded the VBECS Version Numbers paragraph.</p> <p>Download the VBECS 1.5.1.1 Patch File section (Test and Prod):</p> <p>Revised the warning box message.</p> <p>Verify the Contents of the VBECS 1.5.1.1 Patch File section (Test and Prod):</p> <p>Revised the warning box message.</p> <p>Figure 1: Added Example of to the figure caption.</p> <p>Replaced Figures 6, 8, 9, 11, 12, 13, 16, 17, 30, 32, 33, 35, 37, 38, 40 and 41.</p> <p>Prerequisite for Installations Test Environment:</p> <p>Deleted step: Determine the Active and Passive Cluster Nodes</p> <p>Deleted step: Update the VBECS Test Services</p> <p>Deleted section: Patch Service Monitor</p> <p>Deleted section: Perform DTS Update</p> <p>Deleted section: Verify NIC Card Configuration</p> <p>Prerequisite for Installations Production Environment:</p> <p>Deleted step: Determine the Active and Passive Cluster Nodes</p> <p>Deleted step: Update the VBECS Prod Services</p> <p>Deleted section: Performance Improvement: Stopping VBECS Test Services (Optional).</p> <p>Updated Appendix B.</p> <p>Updated Appendix E.</p> <p>Updated Appendix F.</p> <p>Updated Appendix H.</p>	BBM team
08-02-10	2.0	<p>Modified VistA Blood Establishment Computer Software (VBECS) Version 1.5.1, Version 1.0:</p> <p>Global: Replaced “June 2010” with “August 2010” in the footer.</p> <p>Global: Replaced “1.0” with “2.0” in the footer.</p> <p>Global: Revised applicable warnings stating not to proceed or release VBECS for use until the Remedy ticket is resolved.</p> <p>Added a statement at the beginning of the Test and Production installation sections to use the .doc format of the document when copying and pasting sections of the document.</p> <p>Figures 2, 3, 9, 12, 13, 20, 23, 24, 26, 27, 33, 36, 37, 44, 47 and 48: Revised figure captions.</p> <p>Replaced Figures 7, 10, 13, 14, 19, 21, 31, 34, 37, 38, 43 and 45.</p> <p>Download the VBECS 1.5.1.1 Patch File (Test and Production):</p> <ul style="list-style-type: none"> Revised Step 3 by changing “Complete Sub-steps a, b and c” to “Completes Sub-steps a through d”. Steps 3c and 3d: Changed “1.5.1.1” to “1.5.1”. Step 3d: Changed “VHAISHCLUZ1” to “VHAXXXCLUZ1”. Step 3b: Revised to use the .doc format of the document for copying and pasting the appendix. <p>Verify the Contents of the VBECS 1.5.1.1 Patch File (Test and Production):</p>	BBM team

Date	Revision	Description	Author
		<ul style="list-style-type: none"> Revised Steps 7 and 20. Steps 13, 16 and 19: Changed "1.5.1.1" to "1.5.1". Step 11: Changed the "Step 6" reference to "Step 5". <p>Verify the Contents of the VBECS 1.5.1.1 Patch File (Production): Revised Steps 12 and 19.</p> <p>Execute VBECS Patch Scripts against the Cluster (Test and Production):</p> <ul style="list-style-type: none"> Added a new warning box for 'Operations Manager Critical Error Alerts' generated during the patch installation. Figure 19: Moved from Step 4 to Step 5. Step 5: Revised Message Time out bullet point. Revised Steps 11 and 12. <p>Prerequisites for Installation (Test):</p> <ul style="list-style-type: none"> Revised Step 4. Revised Step 5. <p>Prerequisites for Installation (Production):</p> <ul style="list-style-type: none"> Revised Step 5. Revised Step 6. <p>Delete Patch Files (Test and Production): Added Step 7. Execute VBECS Patch Scripts against the Cluster section (Test and Production): Revised Step 9 and added a new warning box stating "If a patch fails to successfully complete within 30 minutes, file a Remedy ticket immediately. Do not release VBECS for use until the ticket is resolved."</p> <p>Execute VBECS Patch Scripts against the Cluster section, Step 17 (Test and Production): Added a new warning box stating "By design, there may be non-fatal errors and warnings within the log file output. Ignore warnings and non-fatal errors upon successful completion of the VBECS patch process."</p> <p>Appendix E: Removed the hyperlink in the title "Installation Procedure for the Test Environment".</p> <p>Updated Appendix E and F.</p> <p>Appendix G: Troubleshooting Messages: Added error message and solution to address Remote Desktop disconnection when user applying the patch has an active session at the server (KVM) console.</p>	

11-08-10	3.0	<p>Modified VistA Blood Establishment Computer Software (VBECS) Version 1.5.1, Version 2.0:</p> <p>Global: Replaced “August 2010” with “November 2010” in the footer.</p> <p>Global: Replaced “2.0” with “3.0” in the footer.</p> <p>Global: Replaced “...060910” with “...110510”.</p> <p>Global: Changed number of bytes in Total Files listed from “200, 811, 979” to “200, 807, 883”.</p> <p>Document title page: Changed “Office of Enterprise Development” to “Product Development”.</p> <p>Delete Patch Files (Test): Step 7- Changed references to “Production” to “Test”.</p> <p>Execute VBECS Patch Scripts against the Cluster (Test and Production): Step 10 - Added a new warning box.</p> <p>Replaced Figures 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40 and 41.</p> <p>Appendix B: Removed the extra “s” from the last column of the first row of Table 1.</p> <p>Appendix B: Removed the blank row from Row 8 of Table 1.</p> <p>Appendix B: Updated the Server Administrative Group.</p> <p>Appendix B: Changed “vhaV23VbecsServerAdmins” to “V23MINVbecsServerAdmins” in VISN 23 for Minneapolis.</p> <p>Appendix B: Changed “V23MinVbecsAdministrators” to “V23MINVbecsAdministrators” in VISN 23 for Minneapolis.</p> <p>Appendix B – Server Administrative Group and VBECS Admin AD Group table columns: Updated the columns and changed “TBD” to the actual group name for VISNs 1 through 5.</p> <p>Removed Appendix H and all references to Appendix H.</p>	BBM team
1-28-11	4.0	<ul style="list-style-type: none"> • Modified VistA Blood Establishment Computer Software (VBECS) Version 1.5.1, Version 3.0: • Global: Replaced “November 2010” with “February 2011” in the footer. • Global: Replaced “3.0” with “4.0” in the footer. • Reworded Step 3.b. in both Test and Production Installation, Download and Verify the Contents of the VBECS Patch, Section 1: Download the VBECS 1.5.1.1 Patch File. • Revised Steps 8-16 in both Test and Production Installation, Section 2 Verify the Contents of the VBECS 1.5.1.1 Patch File. • Revised Step 2 in both Test and Production Installation, Section 3: Prerequisites for Installation. • Revised warning text message after Step 7 in both Test and Production Installation, Section 5: Delete Patch Files. • Revised Step 2 in both Test and Production Installation, Section 5: Delete Patch Files. • Replaced Figure 22 and Figure 43. 	BBM team

This page intentionally left blank.

Table of Contents

REVISION HISTORY.....	III
TABLE OF CONTENTS.....	VII
INTRODUCTION	1
VBECS VERSION NUMBERS.....	1
RELATED MANUALS AND REFERENCE MATERIALS	2
ORIENTATION	3
HOW THIS INSTALLATION GUIDE IS ORGANIZED.....	3
WARNINGS.....	3
SCREEN SHOTS.....	3
PRODUCT SUPPORT.....	3
Problems?	3
INSTALLATION PROCEDURE FOR THE TEST ENVIRONMENT.....	5
DOWNLOAD AND VERIFY THE CONTENTS OF THE VBECS PATCH	5
1 Download the VBECS 1.5.1.1 Patch File.....	5
2 Verify the Contents of the VBECS 1.5.1.1 Patch File.....	7
3 Prerequisites for Installation	11
4 Execute VBECS Patch Scripts against the Cluster.....	12
5 Delete Patch Files	18
INSTALLATION PROCEDURE FOR THE PRODUCTION ENVIRONMENT	19
DOWNLOAD AND VERIFY THE CONTENTS OF THE VBECS PATCH	19
1 Download the VBECS 1.5.1.1 Patch File.....	19
2 Verify the Contents of the VBECS 1.5.1.1 Patch File.....	22
3 Prerequisites for Installation	25
4 Execute VBECS Patch Scripts against the Cluster.....	26
5 Delete Patch Files	32
GLOSSARY	33
APPENDICES	35
APPENDIX A: INSTALLATION LOGS	35
APPENDIX B: ACTIVE DIRECTORY SERVER ADMINISTRATOR GROUPS	37
APPENDIX C: INSTRUCTIONS FOR CAPTURING SCREEN SHOTS FOR INSTALLATION RECORDS	41
APPENDIX D: SETUP DETAILED FOLDERS VIEW	43
APPENDIX E: VBECS PATCH INSTALLATION RECORD FORM FOR THE TEST ENVIRONMENT	45
INSTALLATION PROCEDURE FOR THE TEST ENVIRONMENT	45
1 Download the VBECS 1.5.1.1 Patch File.....	45
2 Verify the Contents of the VBECS 1.5.1.1 Patch File.....	45
3 Prerequisites for Installation	45
4 Execute VBECS Patch Scripts against the Cluster.....	45

5	Delete the Patch Files	45
APPENDIX F: VBECS PATCH INSTALLATION RECORD FORM FOR THE PRODUCTION ENVIRONMENT ..		47
INSTALLATION PROCEDURE FOR THE PRODUCTION ENVIRONMENT.....		47
1	Download the VBECS 1.5.1.1 Patch File.....	47
2	Verify the Contents of the VBECS 1.5.1.1 Patch File.....	47
3	Prerequisites for Installation	47
4	Execute VBECS Patch Scripts against the Cluster.....	47
5	Delete Patch Files	47
APPENDIX G: TROUBLESHOOTING MESSAGES		49
NOTES		53
INDEX		55

Introduction

The VistA Blood Establishment Computer Software (VBECS) system replaces the previous blood bank software (VistA Blood Bank v5.2) at the Department of Veterans Affairs (VA). The main purpose of VBECS is to automate the daily processing of blood inventory and patient transfusions in a hospital transfusion service.

VBECS is an improved Blood Bank application that facilitates ongoing compliance with Food and Drug Administration (FDA) standards for medical devices and enhances the VA Veterans Health Administration's (VHA's) ability to produce high-quality blood products and services to veterans. The system follows blood bank standards, standards of national accrediting agencies, FDA regulations, and VA policies.



Unauthorized access or misuse of this system and/or its data is a federal crime. Use of all data must be in accordance with VA security and privacy policies.



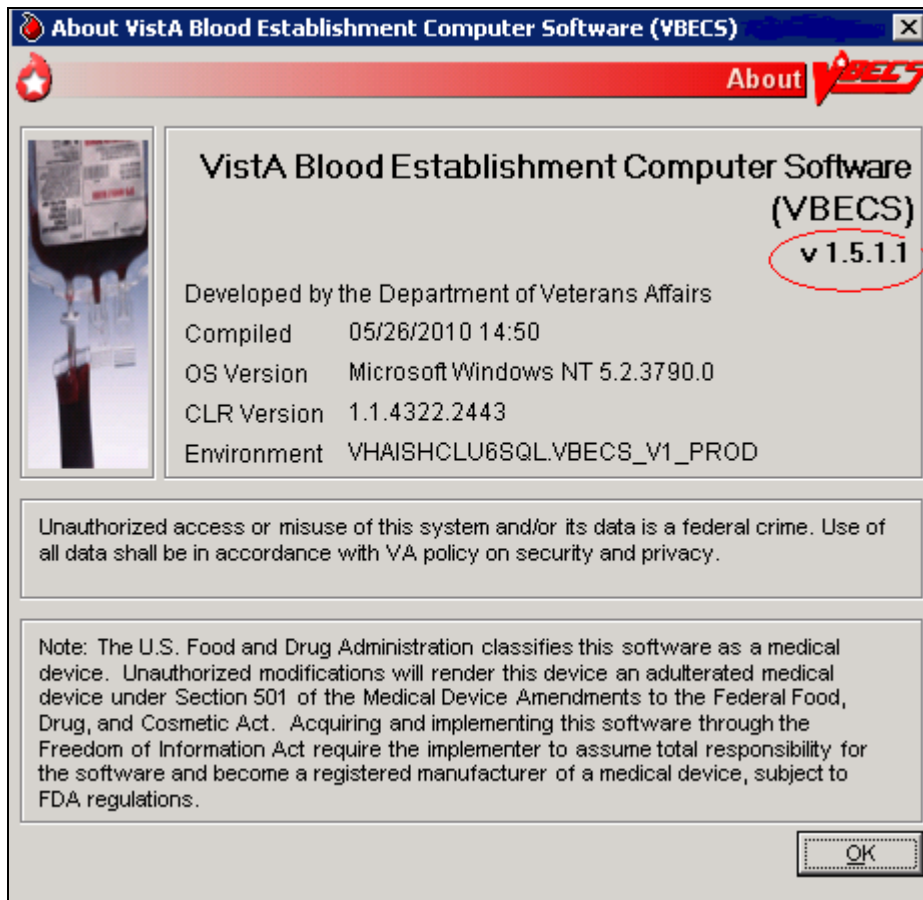
The U.S. Food and Drug Administration classifies this software as a medical device. Unauthorized modifications will render this device an adulterated medical device under Section 501 of the Medical Device Amendments to the Federal Food, Drug, and Cosmetic Act. Acquiring and implementing this software through the Freedom of Information Act requires the implementer to assume total responsibility for the software and become a registered manufacturer of a medical device, subject to FDA regulations. Adding to or updating VBECS software without permission is prohibited.

This document describes how server support staff members [Information Resource Management (IRM) or data center personnel] install VBECS. It describes the scripts that must be executed and the arguments that must be supplied. It specifies how to read script output and the actions that must be performed as a result of the output.

VBECS Version Numbers

The VBECS 1.5.1 patch release represents a change in how the application version will be displayed to you, the customer. In previous VBECS patch releases, the user documentation referred to the VBECS version in a 4-digit format (e.g., 1.5.0.4 – where 1.5.0 represents the patch version and 4 is the patch build number). The build number is used by VBECS support for diagnostic and troubleshooting purposes. In future releases, the VBECS version will be represented with only the first 3 digits (e.g., 1.5.1) and will appear that way in all user documentation to simplify readability. The full 4-digit version can still be found under the **Help, About** window in VBECS (Figure 1) and will appear in patch installation guides where build specific files are referenced.

Figure 1: Example of Help, About VBECS



Related Manuals and Reference Materials

None

Orientation

How This Installation Guide Is Organized



Maintain the order of the steps for successful installation.

This guide is organized as follows:

See the Installation Procedure for the Test Environment section for installing the test environment.

See the Installation Procedure for the Production Environment section for installing the production environment.

See Appendix A: Installation Logs for the location of logs that may be useful in troubleshooting.

See Appendix G: Troubleshooting Messages for examples of troubleshooting messages.

A section for notes is included at the end of the document.

Warnings

Outlined text with a caution icon is used throughout the guide to highlight warnings, limitations, and cautions:




Warnings, limitations, cautions

Read and follow these caution statements and warnings.

Screen Shots

Because VBECS is a medical device, screen shots must be captured at verification points throughout the installation to meet regulatory requirements for objective evidence and documentation.

A  (camera) at the beginning of each step that requires a screen capture will identify these points. For more information, see Appendix C: Instructions for Capturing Screen Shots for Installation Records.



Screen shots included in this guide are examples only and may not display actual data.

Product Support

Problems?

Contact your Information Resource Management (IRM) or Laboratory Automated Data Processing Application Coordinator (ADPAC) if you encounter problems and for training support.

VA Service Desk Primary Contact

For Information Technology (IT) support, call the VA Service Desk (VASD), 888-596-HELP (4357) (toll free), 24 hours per day, 7 days per week. [Users with access to the VASD-supported request tool (e.g., Remedy) may file a ticket in lieu of calling the VASD.]

VA Service Desk Alternate Contacts

- During business hours: As an alternate to the toll-free number, call 205-554-4710 (or 205-554-4711 through 205-554-4725), Monday through Friday (excluding holidays), 8:00 a.m. to 7:30 p.m. (Eastern Time).
- Outside business hours: Call 205-554-3459 (or 205-554-3460 through 205-554-3465, 205-554-3472, 205-554-3475, or 205-554-3482 through 205-554-3485).
- Web site: http://vaww.itsupportservices.va.gov/vasd_home.asp [VA Service Desk (VASD)]
- Email: vhacionhd@va.gov

Installation Procedure for the Test Environment



Do not deviate from the instructions in this guide.



No users are permitted on the system during the patch installation. Any users on the system at the start of the patch process will be disconnected.



Coordinate the patch installation with the blood bank supervisor. Notify the supervisor that the patch installation requires one to two hours of downtime without interruption.

Use the Microsoft Word .doc format of the document when copying and pasting sections of the document.

Download and Verify the Contents of the VBECS Patch

1 Download the VBECS 1.5.1.1 Patch File

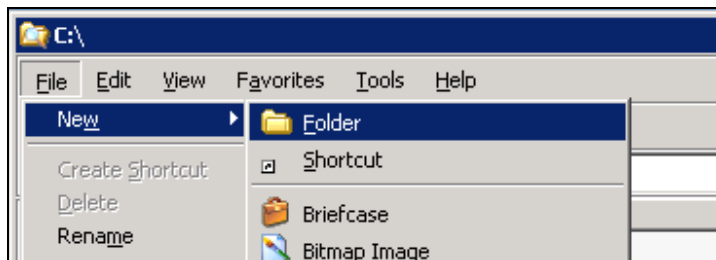
Prerequisites for VBECS FTP Download:

- The installer must be a server administrator in accordance with Appendix B: Active Directory Server Administrator Groups.
- The installer must be a member of the VBECS Admin AD Group in accordance with Appendix B: Active Directory Server Administrator Groups.

To download the VBECS 1.5.1.1 patch file from the VBECS FTP Site:

- 1) Open a remote desktop connection to the cluster being patched.
- 2) Using Windows Explorer, click the **C** drive. If a folder named “temp” does not exist, click **File, New, Folder**. Name this folder “temp” (Figure 2).

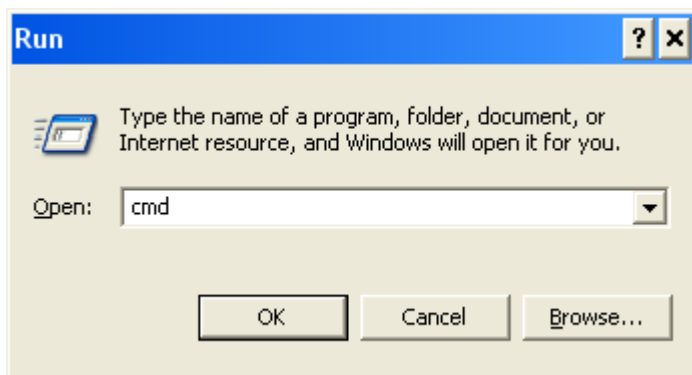
Figure 2: Creating the Temp Folder



- 3) Complete Sub-steps a through d to save a copy of Appendix E: VBECS Patch Installation Record Form for the Test Environment to the local workstation. Any reference to Appendix E after the document is initially saved will be referring to the saved copy.
 - a) Open VistA Blood Establishment Computer Software (VBECS) 1.5.1 Patch Installation Guide.

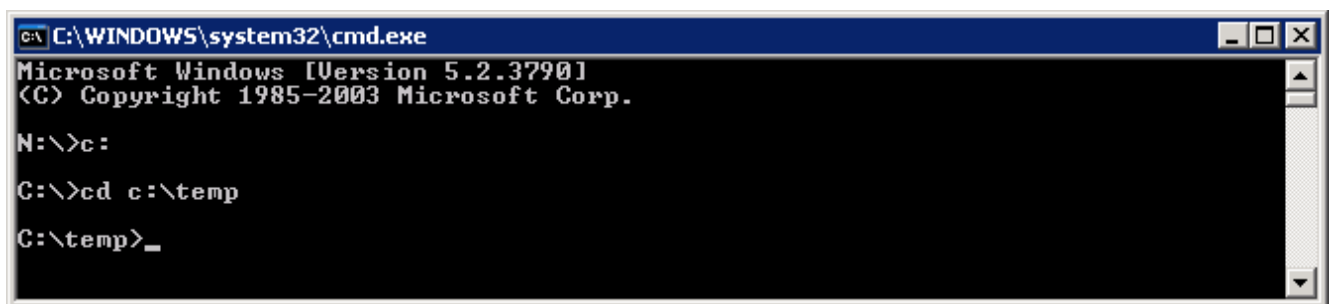
- b) Using the .doc format of this document, select the contents of Appendix E: VBECS Patch Installation Record Form for the Test Environment and copy and paste into a new Word document.
- c) Add a header to the document as “**VBECS Patch Installation Record <Cluster_name> 1.5.1 Test <mmddyy>**” and a footer containing “**Page X of Y**”.
- d) Save Appendix E: VBECS Patch Installation Record Form for the Test Environment as “**VBECS Patch Installation Record <Cluster_name> 1.5.1 Test <mmddyy>**” (e.g., VBECS Patch Installation Record VHAXXXCLUZ1 1.5.1 Test 070809); <mmddyy> represents the current date.
- 4) Click **Start, Run**. Type **cmd** and click **OK** (Figure 3). A command prompt window appears.

Figure 3: Run Window



- 5) In the command prompt window, type **c:** and press **Enter**.
- 6) Type **cd c:\temp** and press **Enter** (Figure 4).

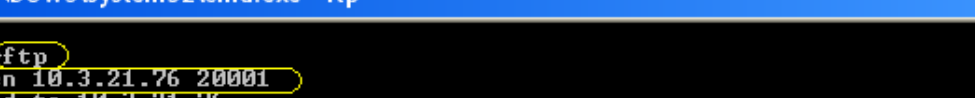
Figure 4: Example of Changing to the Temp Directory



- 7) Type **ftp** and press **Enter** (See Figure 5 for Steps 8, 9 and 10).
- 8) Type **open 10.3.21.76 20001** and press **Enter**.
- 9) At the **User (10.3.21.76:(none))** prompt, type your domain and Windows login ID (e.g., VHAMASTER\YOUR_USER_NAME).
- 10) At the **Password** prompt, type your password. (Note: For security purposes, the cursor will not advance or display characters as you enter your password).

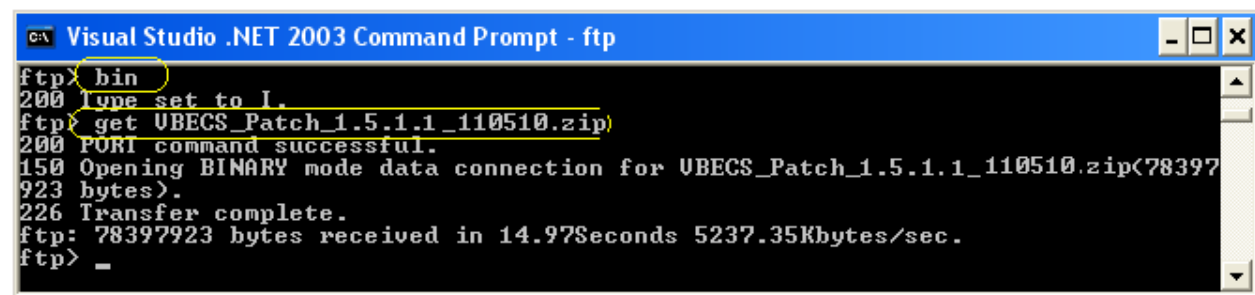


If access problems are encountered, please file a Remedy ticket. Do not proceed until the ticket is resolved.



```
C:\temp>ftp
ftp>open 10.3.21.76 20001
Connected to 10.3.21.76.
220-Microsoft FTP Service
220 VBECS FTP Site
User (10.3.21.76:(none)): your_domain\your_user_name
331 Password required for your_domain\your_user_name
Password:
230-Unauthorized access or misuse of this system and/or its data is a federal crime. Use of all data must be in accordance with VA security and privacy policies
230 User your_domain\your_user_name logged in.
ftp>
```

- ### Figure 6: Example of FTP File Transfer

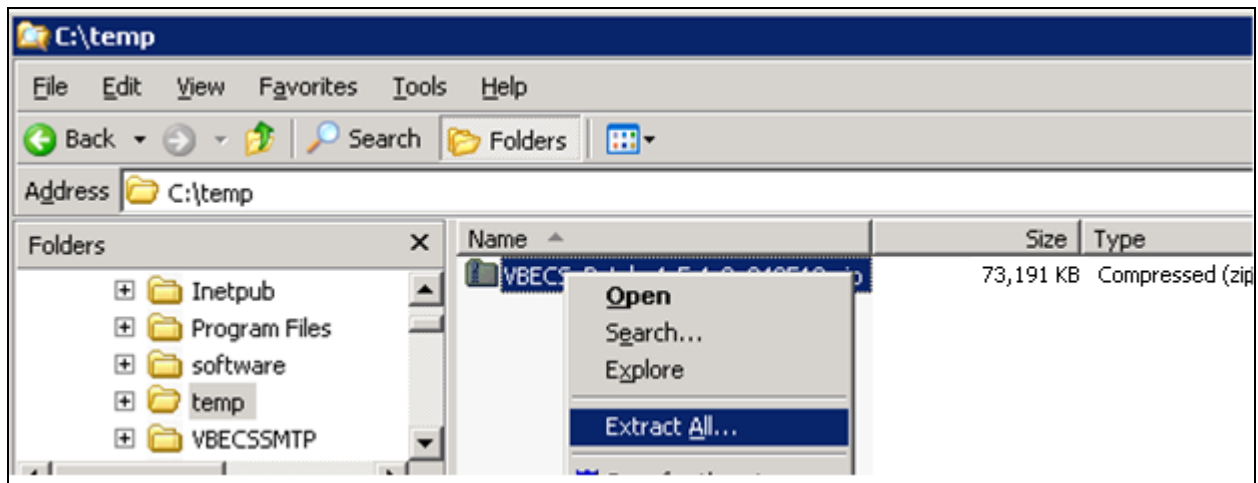


- ## 2 Verify the Contents of the VBECS 1.5.1.1 Patch File

- Page 7

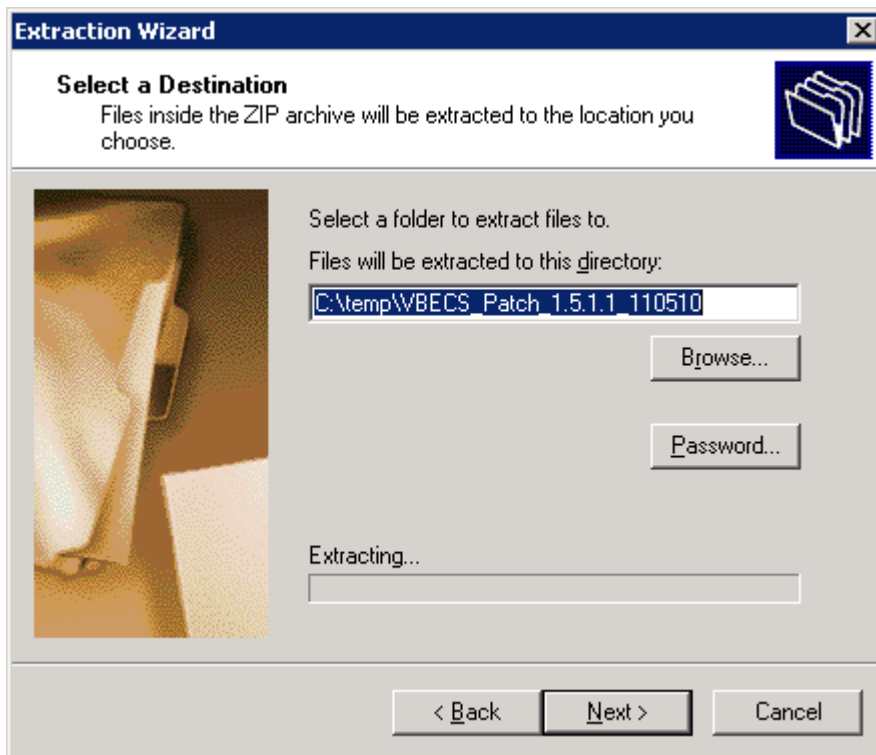
- 2) Right-click on the **VBECS_Patch_1.5.1.1_110510.zip** file and select **Extract All** (Figure 7).

Figure 7: Example of Extracting Patch Contents



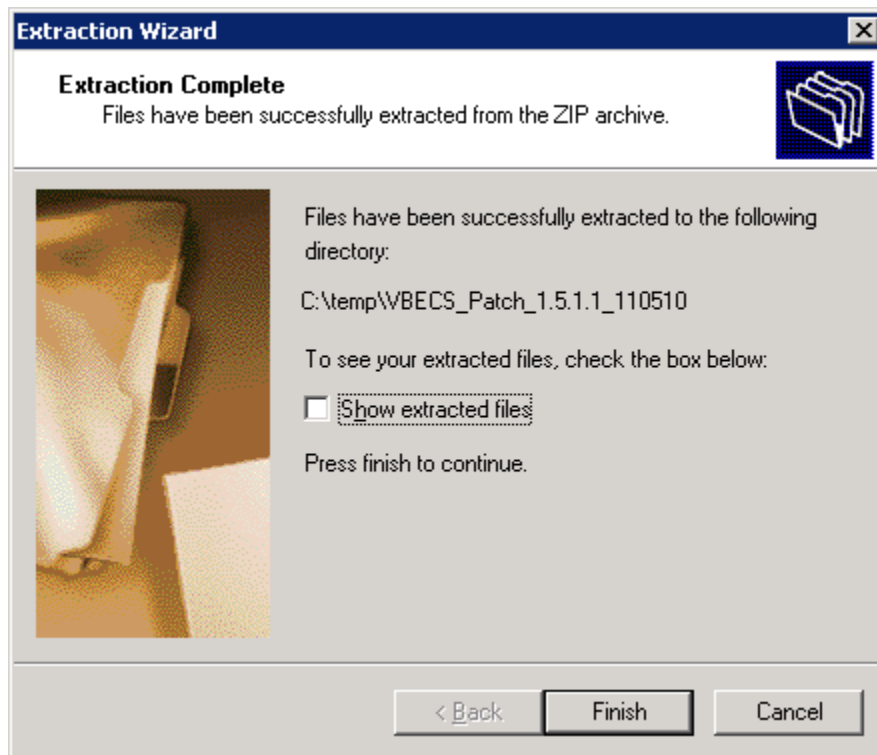
- 3) After the Extraction Wizard opens, click **Next**.
- 4) Click **Next** to extract the contents of the patch zip file to the temp directory (Figure 8).

Figure 8: Extraction Wizard



- 5) After the extraction completes, uncheck **Show extracted files** and click **Finish** (Figure 9).

Figure 9: Extraction Complete



- 6) Verify that the extraction completes and a **C:\temp\VBECS_Patch_1.5.1.1_110510** folder is created.
- 7) Using Windows Explorer, right-click on the **VBECS_Patch_1.5.1.1_110510** folder and select **Properties** (Figure 10).

Figure 10: Example of Folder Properties



- 8) In the VBECS_Patch_1.5.1.1_110510 Properties window (Figure 11), verify:
- **Size is 191 MB (200, 807, 883 bytes)**
 - **Contains is 396 Files, 45 Folders**



If the number of files and number of bytes do not match, stop and file a Remedy ticket. Do not proceed until the ticket is resolved.


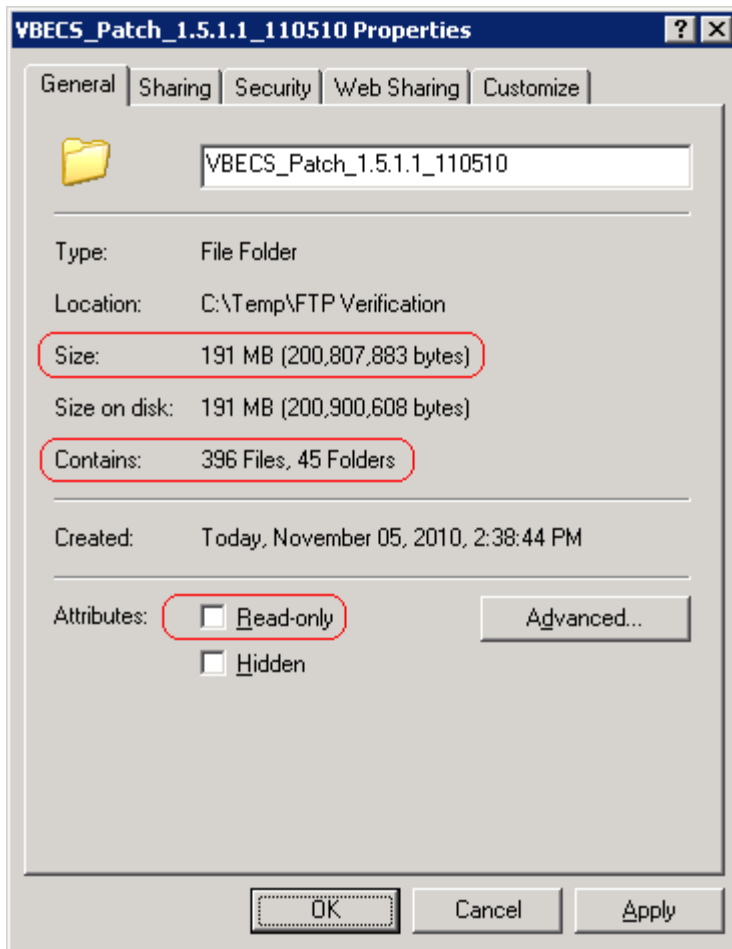
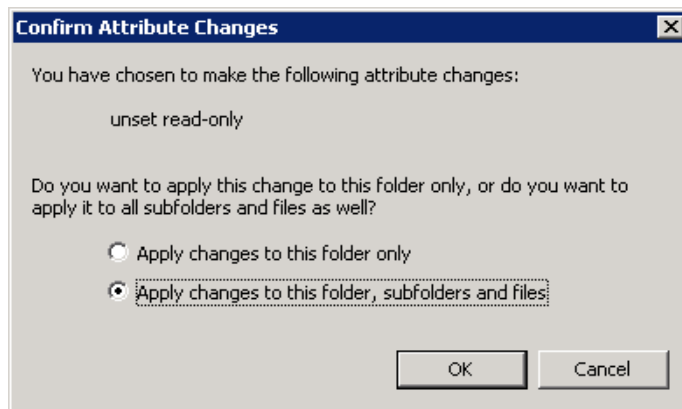
- 9) After verifying that the contents of the VBECS_Patch_1.5.1.1_110510 file match, check the box in Appendix E: VBECS Patch Installation Record Form for the Test Environment.
- 10)  Capture a screen shot of the VBECS_Patch_1.5.1.1_110510 Properties window.
- 11) Insert the screen shot in Appendix E: VBECS Patch Installation Record Form for the Test Environment.
- 12) In the Attributes section, uncheck the **Read-only** check box and click **OK** (Figure 11).

Figure 11: VBECS Patch Folder Properties



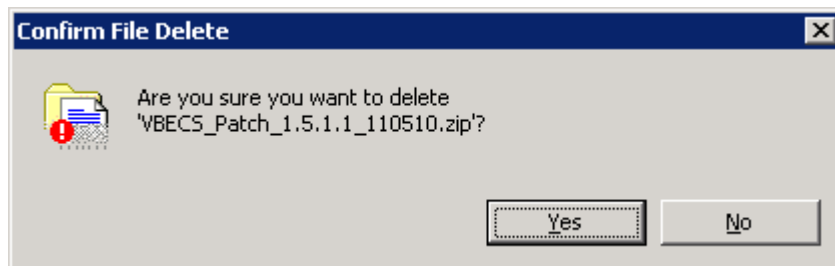
- 13) In the Confirm Attribute Changes window, select the **Apply Changes to this folder, subfolders and files** option if it is not selected, and click **OK** (Figure 12).

Figure 12: Confirm Attribute Changes



- 14) Using Windows Explorer to navigate to the **c:\temp** folder.
- 15) Select the **VBECS_Patch_1.5.1.1_110510.zip** file.
- 16) While holding the **Shift** key press the **Delete** key. Click **Yes** to confirm file deletion (Figure 13).


Figure 13: Delete Zip File





3 Prerequisites for Installation

- 1) VBECS 1.5.0.4 was installed.
- 2) Verify VistA Test has been patched with LR*5.2*401 and VBEC*1.0*10.
- 3) Verify that there are no active console (KVM) sessions on the servers.
- 4) Refer to the latest approved version of the VistA Blood Establishment Computer Software (VBECS) Installation Guide, Appendices titled Server Configuration and Password List for details on Server Names, IP addresses, passwords, etc.
- 5) On the remote desktop connection to the cluster already open, execute the steps in Appendix D: Setup Detailed Folders View to show file extensions on the installation workstation.

4 Execute VBECS Patch Scripts against the Cluster

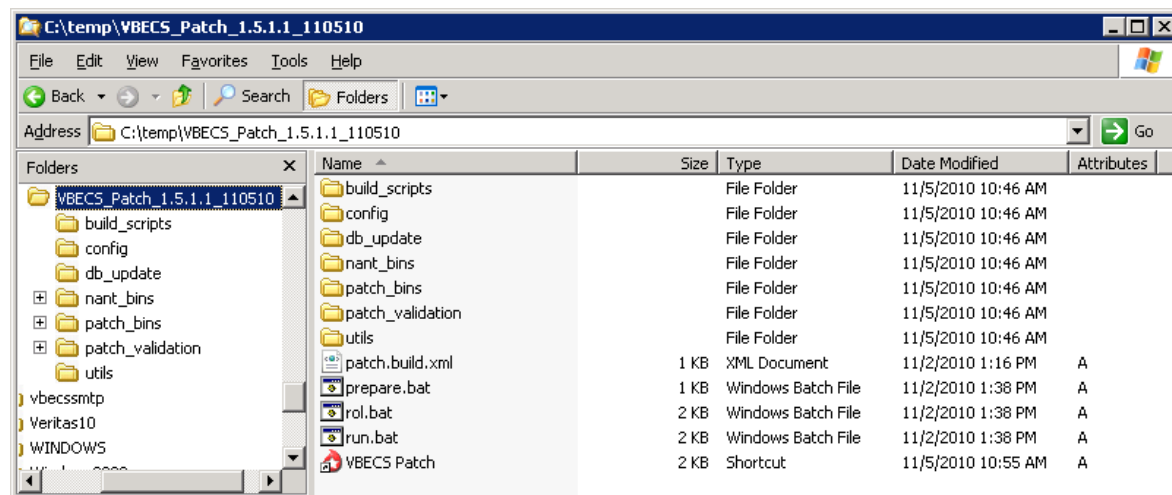
 Patching the servers will require a reboot. Plan to execute the VBECS patch scripts when no active users are on the servers. The system warns active users that they will be disconnected during the configured timeout period.

 After the upgrade, warning messages with the subject 'Operations Manager Critical Error Alert' are normal and should be ignored. They are merely noting that changes have been made to the various VBECS files which is expected during a software upgrade.

 Do not run any additional applications on the server while the patch is executing.

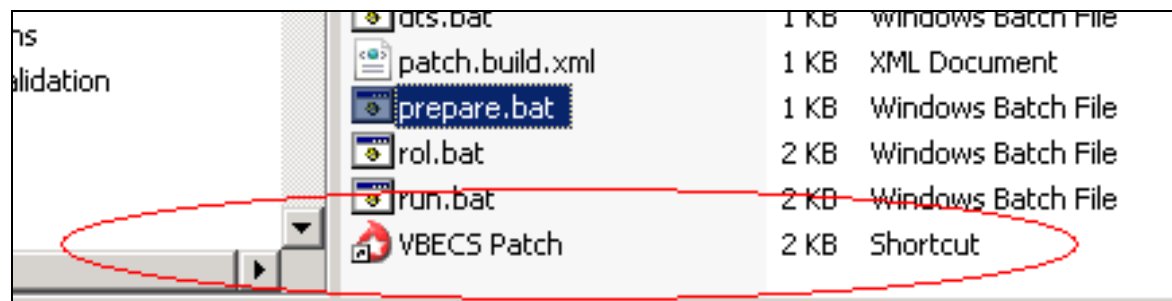
- 1) On the remote desktop connection to the cluster already open, use Windows Explorer to navigate to the **c:\temp\VBECS_Patch_1.5.1.1_110510** folder and double-click the **prepare.bat** file (Figure 14).

Figure 14: VBECS Patch Folder



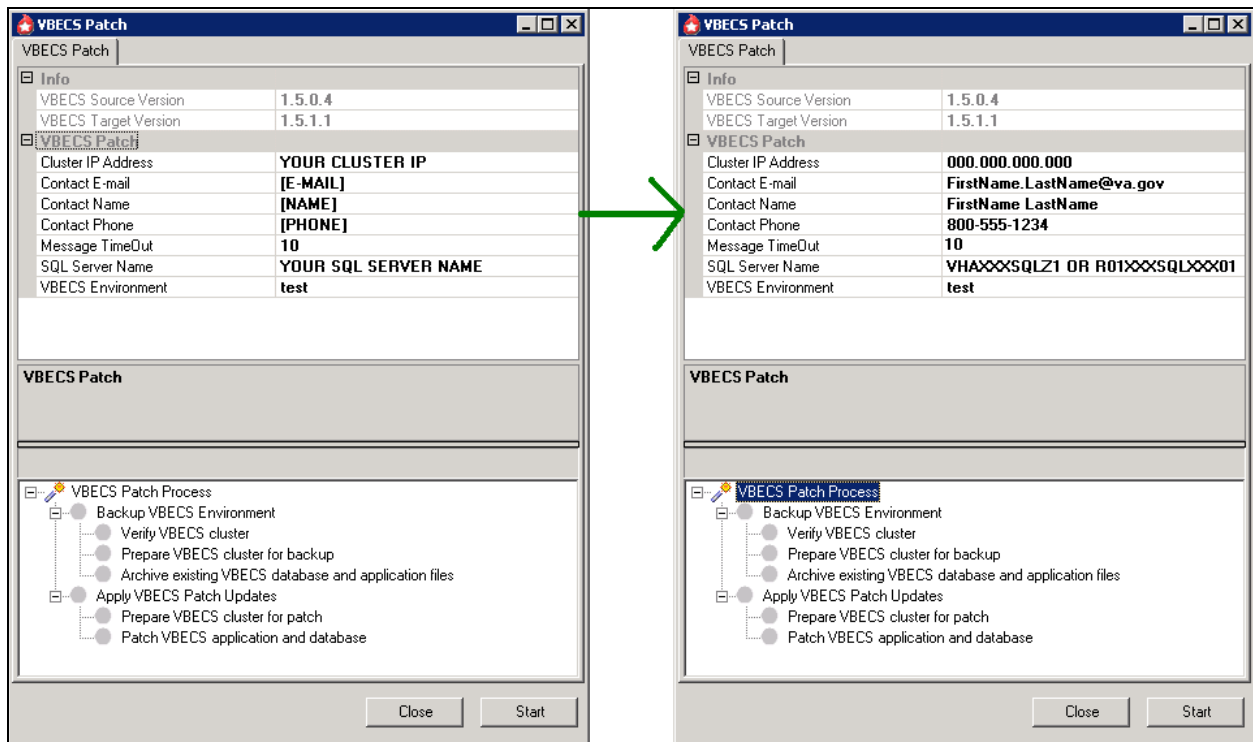
- 2) A VBECS Patch shortcut is created (Figure 15).

Figure 15: VBECS Patch Shortcut



- 3) Double-click on the **VBECS Patch** shortcut to initiate the VBECS patch configuration.
- 4) A VBECS Patch form will open.
- 5) Enter the following for the required fields (Figure 16).
 - **Cluster IP Address** – This is the IP address of the VBECS cluster [initially noted for installation on the Server Configuration Checklist in the *Vista Blood Establishment Computer Software (VBECS) Installation Guide*]. Verify this information with a system administrator. It will be used to identify the clustered servers on which the patch will be installed.
 - **Contact E-mail** – This is the email address of the contact person or group.
 - **Contact Name** – This is the full name (usually the patch installer) displayed in the patch installation shutdown message. Users will contact this person if the patch installation interferes with their work.
 - **Contact Phone** – This is the telephone number of the contact person.
 - **Message TimeOut** – This is the number of minutes current VBECS users will be warned they have to complete activities before patching disconnects their session. . If there are no users on the system override the default 10 minute value by entering **-1**. Users will not be warned if this value is **-1**.
 - **SQL Server Name** – This is the name of the VBECS SQL server [initially noted for installation on the Configuration Checklist in the *Vista Blood Establishment Computer Software (VBECS) Installation Guide*]. Verify this information with a system administrator. It will be used to identify the database to be patched.
 - **VBECS Environment** – This is the VBECS environment. Select **test** to patch VBECS Test environment.

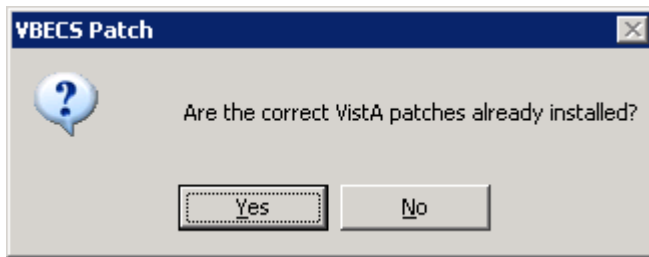
Figure 16: Example of VBECS Patch Form




- 6) Click **Start**.

- 7) A prompt to verify that all correct VistA patches are installed appears (Figure 17).




Figure 17: Required VistA Patches Dialog



- 8) After verifying that all required VistA patches are installed, check the box in Appendix E: VBECS Patch Installation Record Form for the Test Environment.
- 9) Click **Yes** to proceed on required VistA patches dialog. The VBECS Patch process starts. The patch will complete within 30 minutes.

 *If a Patch fails to successfully complete within 30 minutes, file a Remedy ticket immediately. Do not release VBECS for use until the ticket is resolved.*

10) Refer to Figure 18 for the following:

- A green “patch is working” animation () in the bottom left of the VBECS Patch form will be in motion while the patching is in progress.
- The blue progress bar in the middle of form () will increment based on the overall patch progress.
- VBECS Patch Process checkpoints are displayed in the lower portion of the form. A green check mark  indicates that the VBECS Patch process step completed successfully.


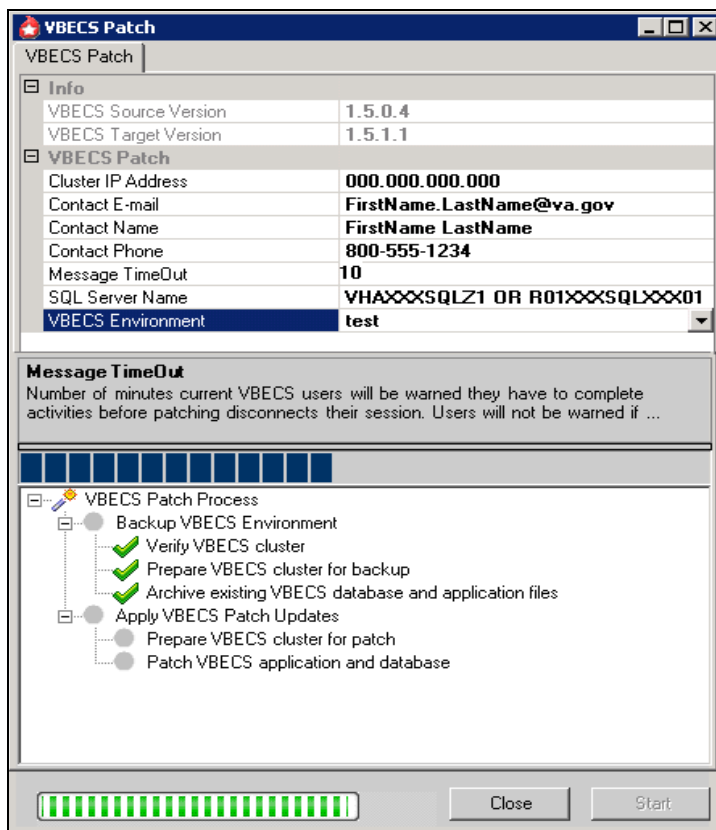
 *If the patch takes longer than 5 minutes to complete the first 3 checks, file a Remedy ticket immediately. Do not release VBECS for use until the ticket is resolved.*

Figure 18: Example of VBECS Patch Process Form

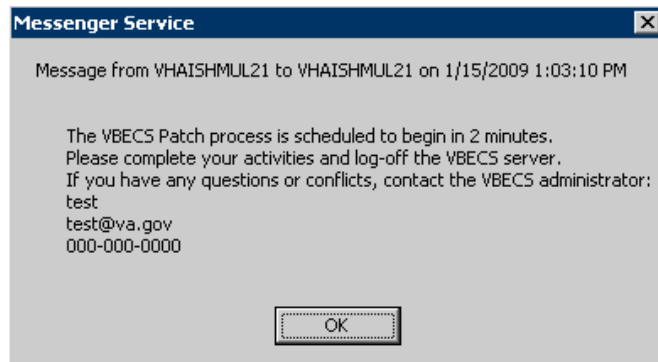


The screenshot shows the VBECS Patch application window. It contains a form with the following sections:

- Info**: VBECS Source Version (1.5.0.4), VBECS Target Version (1.5.1.1).
- VBECS Patch**: Cluster IP Address (000.000.000.000), Contact E-mail (FirstName.LastName@va.gov), Contact Name (FirstName LastName), Contact Phone (800-555-1234), Message TimeOut (10), SQL Server Name (VHAXXXSQLZ1 OR R01XXSQLXX01), VBECS Environment (test).
- Message TimeOut**: Number of minutes current VBECS users will be warned they have to complete activities before patching disconnects their session. Users will not be warned if ...
- Progress Bar**: A blue progress bar with 10 segments, currently showing 10 segments filled.
- VBECS Patch Process**: A list of steps with status indicators:
 - Backup VBECS Environment (grey circle)
 - Verify VBECS cluster (green check mark)
 - Prepare VBECS cluster for backup (green check mark)
 - Archive existing VBECS database and application files (green check mark)
 - Apply VBECS Patch Updates (grey circle)
 - Prepare VBECS cluster for patch (grey circle)
 - Patch VBECS application and database (grey circle)
- Bottom Bar**: A green patch working animation, a Close button, and a Start button.

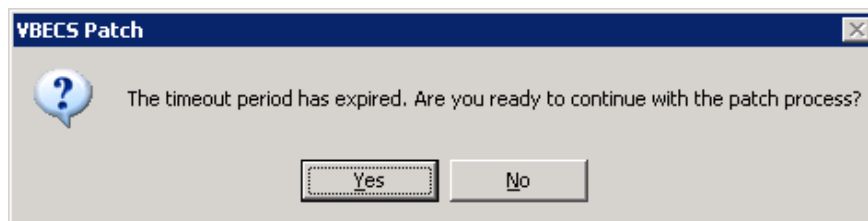
- 11) Active users (users connected to the system through remote desktop) will receive a message indicating the number of minutes they have to complete their work and log out (Message TimeOut argument entered in Step 5). The patch will not make any system changes during this timeout period (Figure 19).

Figure 19: Example of Messenger Service



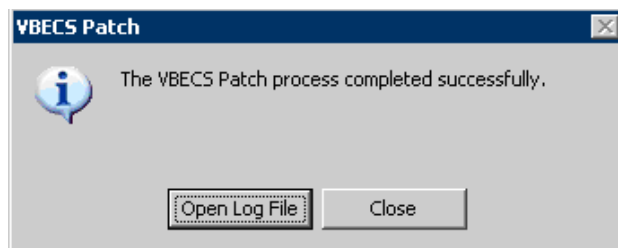
- 12) Click **OK**, after the timeout period had expired, a message signifying the final opportunity to abort the patch installation is displayed (Figure 20).


Figure 20: VBECS Patch: Continue Patch Message



- 13) Click **Yes** to continue with the patch installation. **IMPORTANT:** If active users exist, their sessions on the VBECS server will be automatically terminated. Click **No** to abort the current patching attempt and restart the patch process at a later time.
- 14) When the patch script finishes successfully a “**VBECS Patch process completed successfully**” message will be received (Figure 21).

Figure 21: VBECS Patch Process Complete Message



 *If a Patch Failure message is displayed, please file a Remedy ticket immediately. Do not proceed or release VBECS for use until the ticket is resolved.*

- 15)  Capture a screen shot of VBECS Patch process completed successfully.

- 16) Insert the screen shot in Appendix E: VBECS Patch Installation Record Form for the Test Environment.
- 17) A log file will be created in the
L:\VBECS_Archive\VBECSRecords\VBECS_<mmddyy>_1.5.0.4_to_1.5.1.1\test directory,
with **<cluster>.<nnn.med.va.gov>_VBECS_1.5.1.1_test_<hhmm>.log** as the file name,
where:
- <mmddyy> represents the current date.
 - <hhmm> represents the hour and minute the patch began execution.
 - <nnn> represents 'vha' or 'region name' (e.g. RO1).
- For example, vhaxxxcluz1.vha.med.va.gov_VBECS_1.5.1.1_test_0928.log.



By design, there may be non-fatal errors and warnings within the log file output. Ignore warnings and non-fatal errors upon successful completion of the VBECS Patch process.

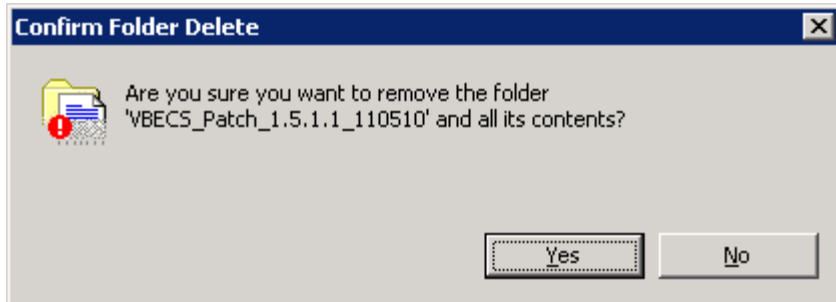
- 18) Record the name of the log file in Appendix E: VBECS Patch Installation Record Form for the Test Environment.
- 19) Click **Close** to close the VBECS Patch success message.
- 20) Click **Close** on the VBECS Patch main window to exit the patch application.

5 Delete Patch Files

To delete the VBECS 1.5.1.1 Patch files:

- 1) Open a remote desktop connection to the cluster, and use Windows Explorer to navigate to the **c:\temp** folder.
- 2) Select the **VBECS_Patch_1.5.1.1_110510** folder.
- 3) While holding down the **Shift** key, press the **Delete** key. Click **Yes** to confirm file deletion (Figure 22).

Figure 22: Example of Patch Files for Deletion



- 4) Check the box in Appendix E: VBECS Patch Installation Record Form for the Test Environment.
- 5) Print Appendix E: VBECS Patch Installation Record Form for the Test Environment and initial and date the printed copy. Save this with your records of previous VBECS installations.
- 6) Manually check the box on the printed copy of Appendix E: VBECS Patch Installation Record Form for the Test Environment verifying that the form was printed, initialed and dated.
- 7) Notify the blood bank that the patch has been successfully installed in the Test account and request the blood bank to verify that the Test account can receive orders.

For new VBECS installations: Begin VistA Database Conversion in accordance with Blood Bank Pre-Implementation Data Validation, Mapping, and Conversion ADPAC Guide if the conversion process has not already been completed.

Installation Procedure for the Production Environment



Do not deviate from the instructions in this guide.



No users are permitted on the system during the patch installation. Any users on the system at the start of the patch process will be disconnected.



Coordinate the patch installation with the blood bank supervisor. Notify the supervisor that the patch installation requires one to two hours of downtime without interruption.

Use the Microsoft Word .doc format of the document when copying and pasting sections of the document.

Download and Verify the Contents of the VBECS Patch

1 Download the VBECS 1.5.1.1 Patch File

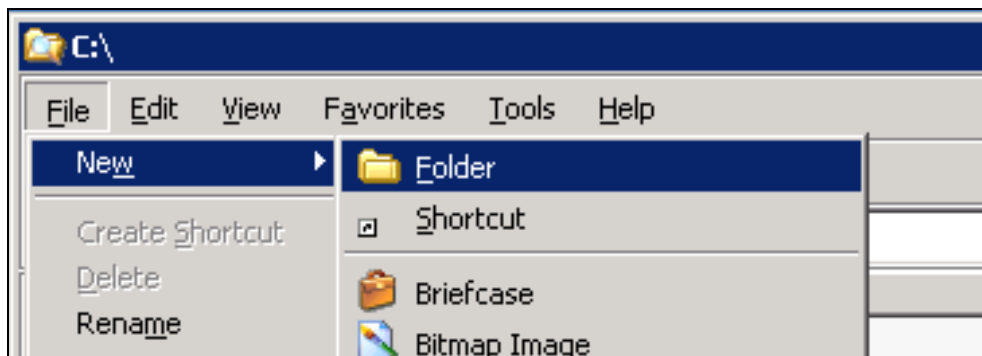
Prerequisites for VBECS FTP Download:

- The installer must be a server administrator in accordance with Appendix B: Active Directory Server Administrative Groups.
- The installer must be a member of the VBECS Admin AD Group in accordance with Appendix B: Active Directory Server Administrative Groups.

To download the VBECS 1.5.1.1 patch file from the VBECS FTP Site:

- 1) Open a remote desktop connection to the cluster being patched.
- 2) Using Windows Explorer, click the **C** drive. If a folder named “temp” does not exist, click **File, New, Folder**. Name this folder “temp” (Figure 23).

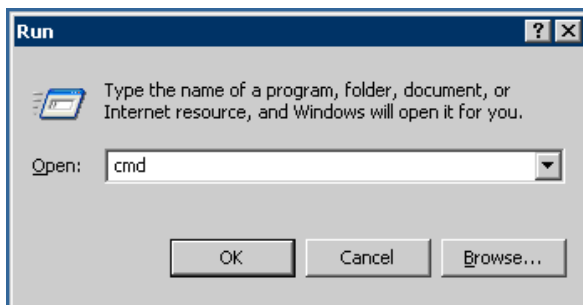
Figure 23: Creating the Temp Folder



- 3) Complete Sub-steps a through d to save a copy of Appendix F: VBECS Patch Installation Record Form for the Production Environment to the local workstation. Any reference to Appendix F after the document is initially saved will be referring to the saved copy.

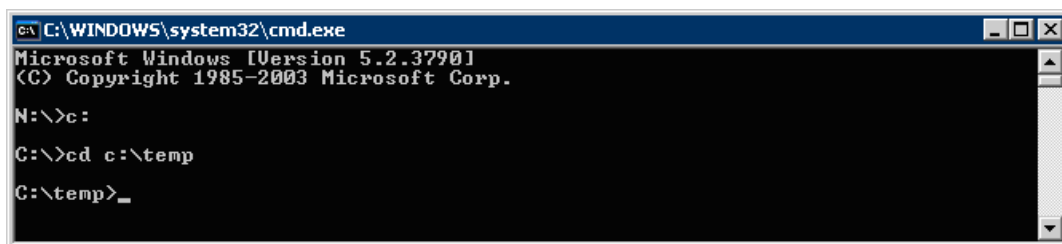
- a) Open VistA Blood Establishment Computer Software (VBECS) 1.5.1 Patch Installation Guide.
- b) Using the .doc format of this document, select the contents of Appendix F: VBECS Patch Installation Record Form for the Production Environment and copy and paste into a new Word document.
- c) Add a header to the document as “**VBECS Patch Installation Record <Cluster_name> 1.5.1 Prod <mmdyy>**” and a footer containing “**Page X of Y**”.
- d) Save Appendix F: VBECS Patch Installation Record Form for the Production Environment as “**VBECS Patch Installation Record <Cluster_name> 1.5.1 Prod <mmdyy>**” (for example, VBECS Patch Installation Record VHAXXXCLUZ1 1.5.1 Prod 070809); <mmdyy> represents the current date.
- 4) Click **Start, Run**. Type **cmd** and click **OK** (Figure 24). A command prompt window appears.

Figure 24: Run Window



- 5) In the command prompt window, type **c:** and press **Enter**.
- 6) Type **cd c:\temp** and press **Enter** (Figure 25).

Figure 25: Example of Temp Folder for Patch Download



- 7) Type **ftp** and press **Enter** (See Figure 26 for Steps 8, 9 and 10).
- 8) Type **open 10.3.21.76 20001** and press **Enter**.
- 9) At the **User (10.3.21.76:(none))** prompt, type your domain and Windows login ID (e.g., VHAMASTER\YOURNAME).
- 10) At the **Password** prompt, type your password.
(**Note:** For security purposes, the cursor will not advance or display characters as you type your password.)



If access problems are encountered, please file a Remedy ticket. Do not proceed until the ticket is resolved.


Figure 26: Example of FTP

```
C:\WINDOWS\system32\cmd.exe - ftp
C:\temp>ftp
ftp>open 10.3.21.76 20001
Connected to 10.3.21.76.
220-Microsoft FTP Service
220 VBECS FTP Site
User (10.3.21.76:(none)): your_domain\your_user_name
331 Password required for your_domain\your_user_name
Password:
230-Unauthorized access or misuse of this system and/or its data is a federal crime. Use of all data must be in accordance with VA security and privacy policies
230 User your_domain\your_user_name logged in.
ftp>
```

- 11) At the **ftp>** prompt, type **bin** and press **Enter**.
The following message will appear “200 Type set to I” (See Figure 27 for Steps 11 and 12).
- 12) Type **get VBECS_Patch_1.5.1.1_110510.zip** and press **Enter** (it may take several minutes for the download to complete, after which a “Transfer complete” message appears).

Figure 27: Example of FTP File Transfer

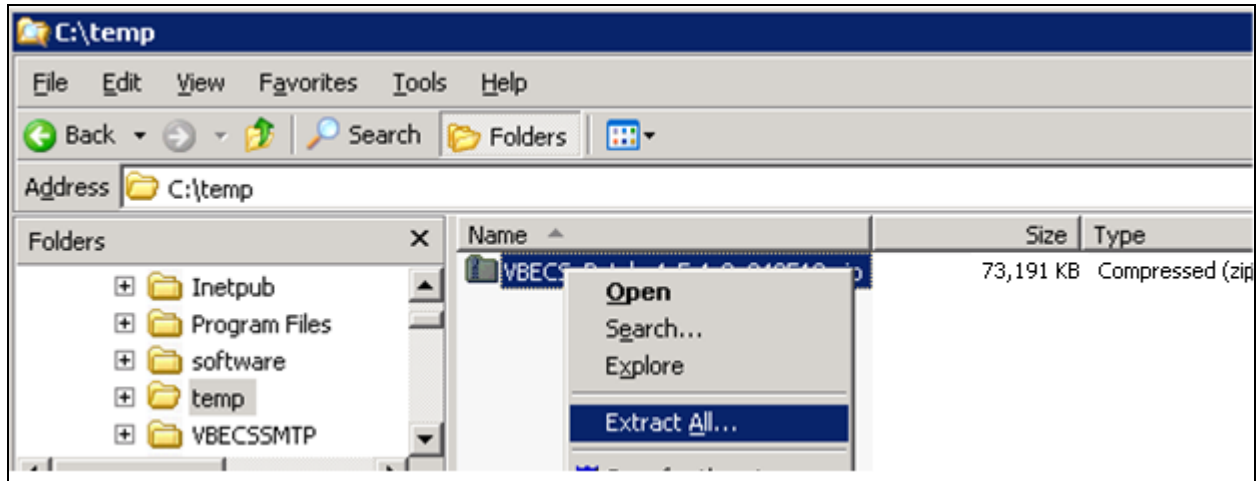
```
Visual Studio .NET 2003 Command Prompt - ftp
ftp>bin
200 Type set to I.
ftp>get VBECS_Patch_1.5.1.1_110510.zip
200 PORT command successful.
150 Opening BINARY mode data connection for VBECS_Patch_1.5.1.1_110510.zip(78397923 bytes).
226 Transfer complete.
ftp: 78397923 bytes received in 14.97Seconds 5237.35Kbytes/sec.
ftp> _
```

- 13)  Capture a screen shot of the transfer completed command prompt.
- 14) Insert the screen shot in Appendix F: VBECS Patch Installation Record Form for the Production Environment.
- 15) Stop the FTP session: At the **ftp>** prompt, type **quit** and press **Enter**.
- 16) Close the command prompt window.

2 Verify the Contents of the VBECS 1.5.1.1 Patch File

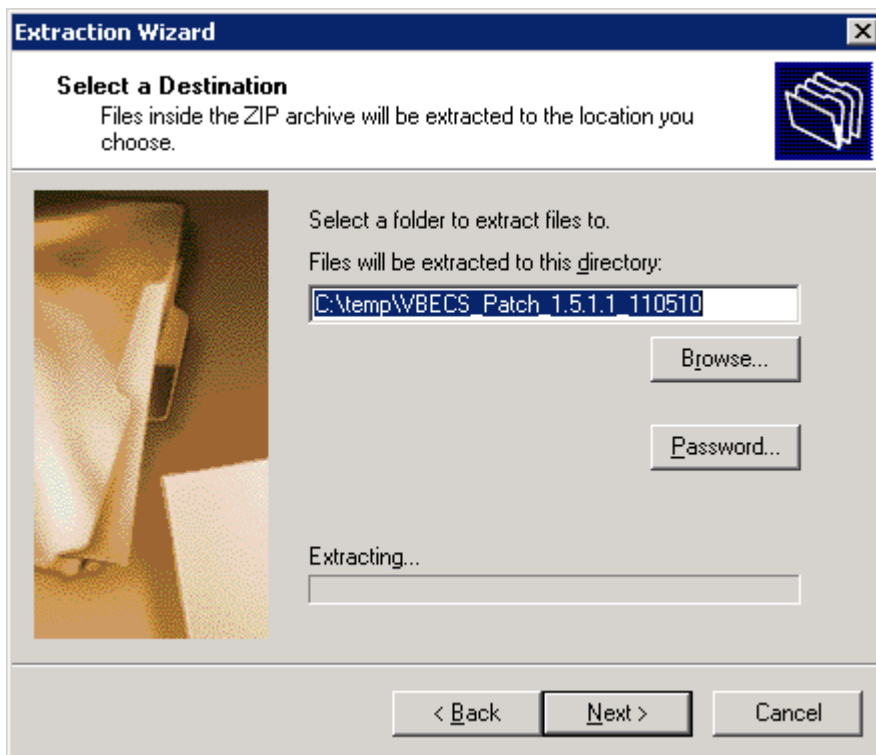
- 1) On the remote desktop connection to the cluster already open, use Windows Explorer to navigate to the **c:\temp** folder.
- 2) Right-click on the **VBECS_Patch_1.5.1.1_110510.zip** file and select **Extract All** (Figure 28).

Figure 28: Example of Extracting Patch Contents



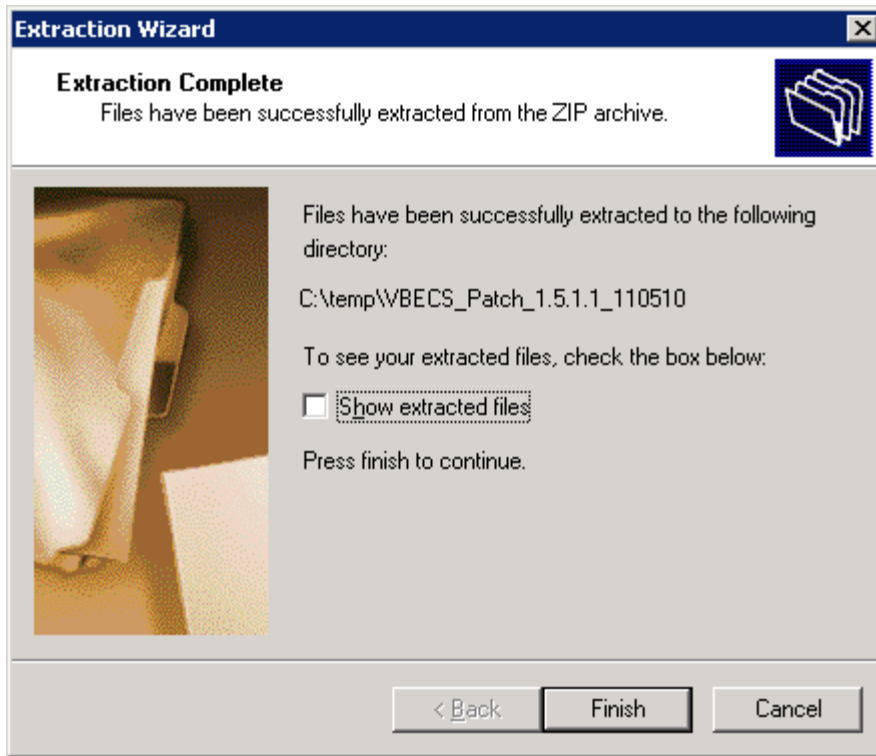
- 3) After the Extraction Wizard opens, click **Next**.
- 4) Click **Next** to extract the contents of the patch zip file to the temp directory (Figure 29).

Figure 29: Extraction Wizard



- 5) After the extraction completes, uncheck **Show extracted files** and click **Finish** (Figure 30).

Figure 30: Extraction Completed



- 6) Verify that the extraction completes and a **c:\temp\VBECS_Patch_1.5.1.1_110510** folder is created.
- 7) Using Windows Explorer, right-click on the **VBECS_Patch_1.5.1.1_110510** folder and select **Properties** (Figure 31).

Figure 31: Example of Folder Properties



- 8) In the VBECS_Patch_1.5.1.1_110510 Properties window (Figure 32), verify:
- **Size is 191 MB (200, 807, 883 bytes)**
 - **Contains is 396 Files, 45 Folders**



If the number of files and number of bytes do not match, stop and file a Remedy ticket. Do not proceed until the ticket is resolved.


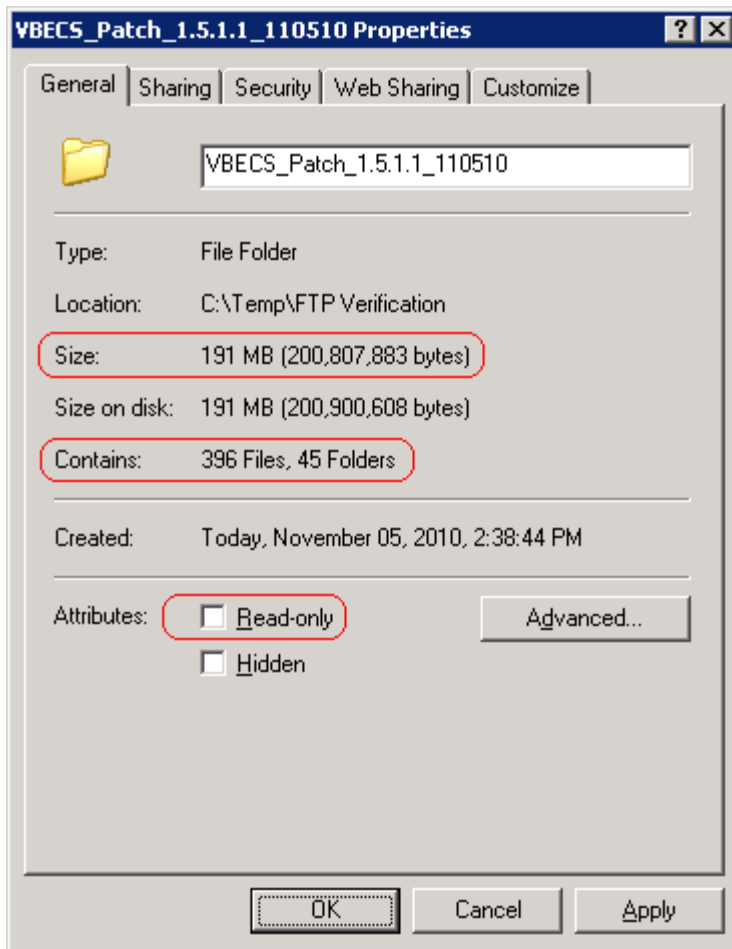
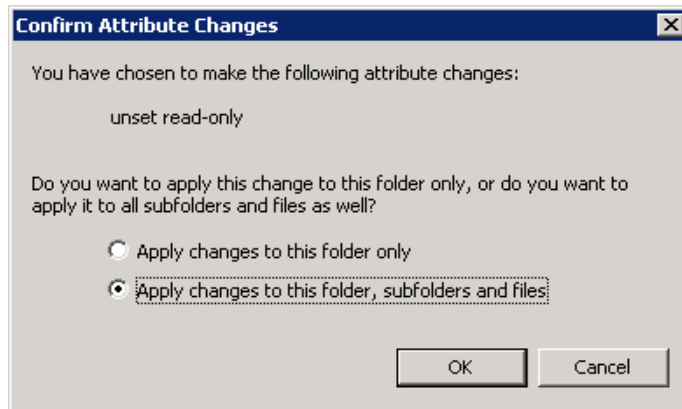
- 9) After verifying that the contents of the VBECS_Patch_1.5.1.1_110510 file match, check the box in Appendix F: VBECS Patch Installation Record Form for the Production Environment.
- 10)  Capture a screen shot of the VBECS_Patch_1.5.1.1_110510 Properties window.
- 11) Insert the screen shot in Appendix F: VBECS Patch Installation Record Form for the Production Environment
- 12) In the Attributes section, uncheck the **Read-only** check box and click **OK** (Figure 32).

Figure 32: VBECS Patch Folder Properties



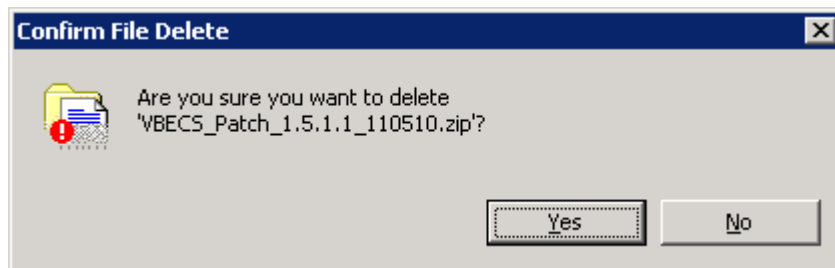
- 13) In the Confirm Attribute Changes window, select the **Apply Changes to this folder, subfolders and files** option if it is not selected, and click **OK** (Figure 33).

Figure 33: Confirm Attribute Changes



- 14) Using Windows Explorer to navigate to the **c:\temp** folder.
- 15) Select the **VBECS_Patch_1.5.1.1_110510.zip** file.
- 16) While holding the **Shift** key press the **Delete** key. Click **Yes** to confirm file deletion (Figure 34).

Figure 34: Delete Zip File



3 Prerequisites for Installation

- 1) VBECS 1.5.0.4 was installed.
- 2) VBECS 1.5.1.1 was installed in the Test Environment.
- 3) Verify VistA Test has been patched with LR*5.2*401 and VBEC*1.0*10.
- 4) Verify that there are no active console (KVM) sessions on the servers.
- 5) Refer to the latest approved version of the VistA Blood Establishment Computer Software (VBECS) Installation Guide, Appendices titled Server Configuration and Password List for details on Server Names, IP addresses, passwords, etc.
- 6) Using the remote desktop connection to the cluster already open, execute the steps in Appendix D: Setup Detailed Folders View to show file extensions on the installation workstation.

4 Execute VBECS Patch Scripts against the Cluster



Patching the servers will require a reboot. Plan to execute the VBECS patch when no active users are on the servers. The system warns active users that they will be disconnected during the configured timeout period.



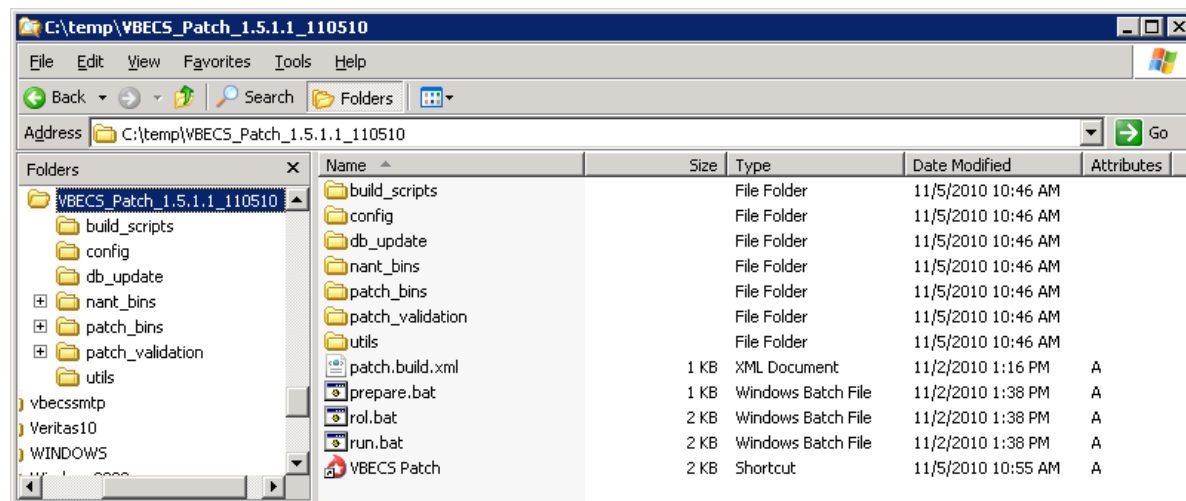
After the upgrade, warning messages with the subject 'Operations Manager Critical Error Alert' are normal and should be ignored. They are merely noting that changes have been made to the various VBECS files which is expected during a software upgrade.



Do not run any additional applications on the server while the patch is executing.

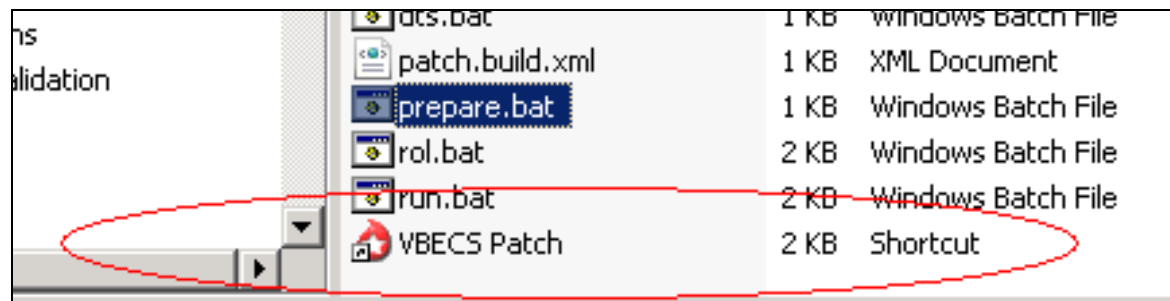
- 1) On the remote desktop connection to the cluster already open, use Windows Explorer to navigate to the **c:\temp\VBECS_Patch_1.5.1.1_110510** folder and double-click the **prepare.bat** file (Figure 35).

Figure 35: VBECS Patch Folder



- 2) A VBECS Patch shortcut is created (Figure 36).

Figure 36: VBECS Patch Shortcut



- 3) Double-click on the **VBECS Patch** shortcut to initiate the VBECS patch configuration.
- 4) A VBECS Patch form will open.
- 5) Enter the following for the required fields (Figure 37).
 - **Cluster IP Address** – This is the IP address of the VBECS cluster [initially noted for installation on the Server Configuration Checklist in the *VistA Blood Establishment Computer Software (VBECS) Installation*]. Verify this information with a system administrator. It will be used to identify the clustered servers on which the patch will be installed.
 - **Contact E-mail** – This is the email address of the contact person or group.
 - **Contact Name** – This is the full name (usually the patch installer) displayed in the patch installation shutdown message. Users will contact him if the patch installation interferes with their work.
 - **Contact Phone** – This is the telephone number of the contact person.
 - **Message TimeOut** – This is the number of minutes current VBECS users will be warned they have to complete activities before patching disconnects their session. . If there are no users on the system override the default 10 minute value by entering **-1**. Users will not be warned if this value is **-1**.
 - **SQL Server Name** – This is the name of the VBECS SQL server [initially noted for installation on the Configuration Checklist under SQL Server Information in the *VistA Blood Establishment Computer Software (VBECS) Installation*]. Verify this information with a system administrator. It will be used to identify the database to be patched.
 - **VBECS Environment** – This is the VBECS environment. Select **prod** to patch VBECS Production environment.

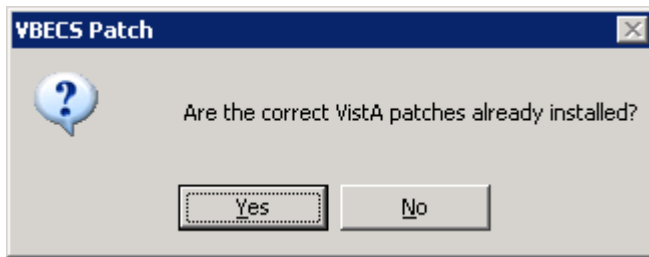
Figure 37: Example of VBECS Patch Form

The figure displays two instances of the VBECS Patch configuration window. The left window shows the initial state with placeholder text for the VBECS Patch section: Cluster IP Address (YOUR CLUSTER IP), Contact E-mail ([E-MAIL]), Contact Name ([NAME]), Contact Phone ([PHONE]), Message TimeOut (10), SQL Server Name (YOUR SQL SERVER NAME), and VBECS Environment (prod). The right window shows the same form after configuration, with specific values entered: Cluster IP Address (000.000.000.000), Contact E-mail (FirstName.LastName@va.gov), Contact Name (FirstName LastName), Contact Phone (800-555-1234), Message TimeOut (10), SQL Server Name (VHA\SQLZ1 OR R01\SQL\SQL01), and VBECS Environment (prod). A green arrow points from the left window to the right window, indicating the progression of the configuration process. Both windows also show a VBECS Patch Process section with a tree view of tasks: Backup VBECS Environment, Verify VBECS cluster, Prepare VBECS cluster for backup, Archive existing VBECS database and application files, Apply VBECS Patch Updates, Prepare VBECS cluster for patch, and Patch VBECS application and database. The bottom of each window has 'Close' and 'Start' buttons.


- 6) Click **Start**.

- 7) A prompt to verify that all correct VistA patches are installed appears (Figure 38).




Figure 38: Required VistA Patches Prompt



- 8) Verify that all required VistA patches are installed. Check the box in Appendix F: VBECS Patch Installation Record Form for the Production Environment.
- 9) Click **Yes** to proceed on required VistA patches dialog. The VBECS Patch process starts. The patch will complete within 30 minutes.

 *If a Patch fails to successfully complete within 30 minutes, file a Remedy ticket immediately. Do not release VBECS for use until the ticket is resolved.*

10) Refer to Figure 39 for the following:

- A green “patch is working” animation () in the bottom left of the VBECS Patch form will be in motion while the patching is in progress.
- The blue progress bar in the middle of form () will increment based on the overall patch progress.
- VBECS Patch Process checkpoints are displayed in the lower portion of the form. A green check mark  indicates that VBECS Patch process step completed successfully.


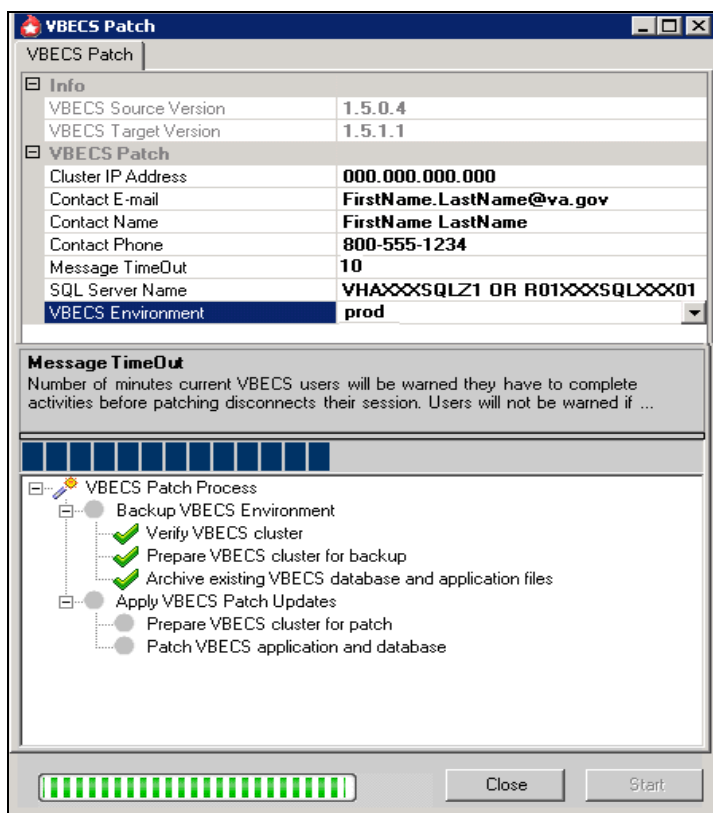
 *If the patch takes longer than 5 minutes to complete the first 3 checks, file a Remedy ticket immediately. Do not release VBECS for use until the ticket is resolved.*

Figure 39: Example of VBECS Patch Process Form



VBECS Patch

VBECS Patch

Info




VBECS Source Version	1.5.0.4
VBECS Target Version	1.5.1.1


VBECS Patch

Cluster IP Address	000.000.000.000
Contact E-mail	FirstName.LastName@va.gov
Contact Name	FirstName LastName
Contact Phone	800-555-1234
Message TimeOut	10
SQL Server Name	VHAXXXSQLZ1 OR R01XXSQLXX01
VBECS Environment	prod

Message TimeOut
Number of minutes current VBECS users will be warned they have to complete activities before patching disconnects their session. Users will not be warned if ...

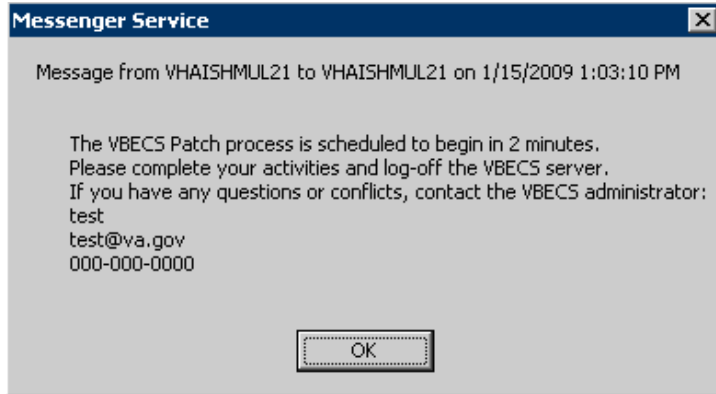
VBECS Patch Process

- Backup VBECS Environment
 - Verify VBECS cluster 
 - Prepare VBECS cluster for backup 
 - Archive existing VBECS database and application files 
- Apply VBECS Patch Updates
 - Prepare VBECS cluster for patch
 - Patch VBECS application and database

 Close Start

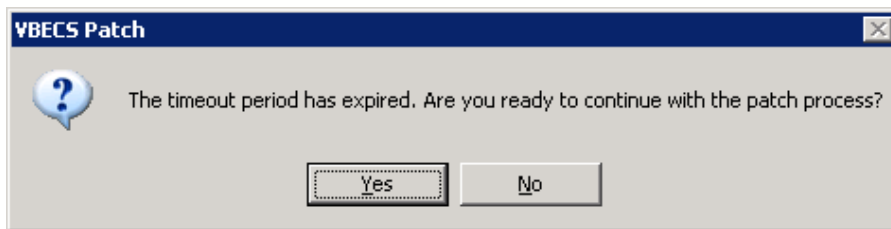
- 11) Active users (users connected to the system through remote desktop), will receive a message indicating the number of minutes they have to complete their work and log out (Message TimeOut argument entered in Step 5). The patch will not make any system changes during this timeout period (Figure 40).

Figure 40: Example of Messenger Service



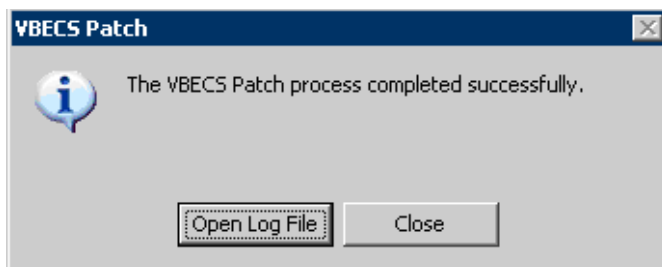
- 12) Click **OK**, after the timeout period had expired, a message signifying the final opportunity to abort the patch installation is displayed (Figure 41).


Figure 41: VBECS Patch: Continue Patch Message




- 13) Click **Yes** to continue with the patch installation. **IMPORTANT:** If active users exist, their sessions on the VBECS server will be automatically terminated. Click **No** to abort the current patching attempt and restart the patch process at a later time.
- 14) When the patch script finishes successfully a “**VBECS Patch process completed successfully**” message will be received (Figure 42).

Figure 42: VBECS Patch Process Complete Message



 *If a Patch Failure message is displayed, please file a Remedy ticket immediately. Do not proceed or release VBECS for use until the ticket is resolved.*

- 15)  Capture a screen shot of VBECS Patch process completed successfully.
- 16) Insert the screen shot in Appendix F: VBECS Patch Installation Record Form for the Production Environment.
- 17) A log file will be created in the
L:\VBECS_Archive\VBECSRecords\VBECS_<mmddyy>_1.5.0.4_to_1.5.1.1\prod
directory, with <cluster>.<nnn.med.va.gov>_VBECS_1.5.1.1_prod_<hhmm>.log as the file
name, where:
- <mmddyy> represents the current date.
 - <hhmm> represents the hour and minute the patch began execution.
 - <nnn> represents 'vha' or 'region name' (e.g. RO1).
- For example, vhaxxxcluz1.vha.med.va.gov_VBECS_1.5.1.1_prod_0928.log.



By design, there may be non-fatal errors and warnings within the log file output. Ignore warnings and non-fatal errors upon successful completion of the VBECS Patch process.

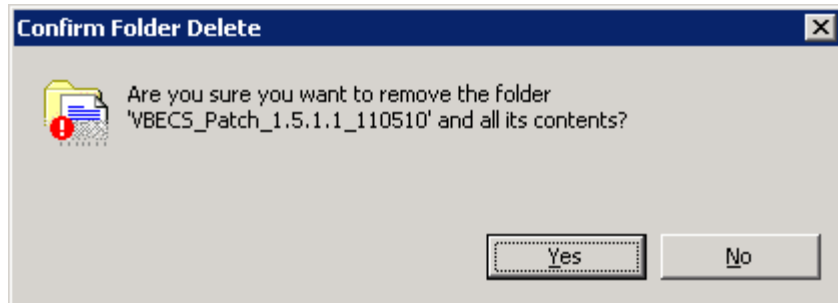
- 18) Record the name of the log file in Appendix F: VBECS Patch Installation Record Form for the Production Environment.
- 19) Click **Close** to close the VBECS Patch success message.
- 20) Click **Close** on the VBECS Patch main window to exit the patch application.

5 Delete Patch Files

To delete the VBECS 1.5.1.1 Patch files:

- 1) On the remote desktop connection to the cluster already open, use Windows Explorer to navigate to **c:\temp** folder.
- 2) Select the **VBECS_Patch_1.5.1.1_110510** folder.
- 3) While holding down the Shift key press the **Delete** key. Click **Yes** to confirm file deletion (Figure 43).

Figure 43: Example of Patch Files for Deletion



- 4) Check the box in Appendix F: VBECS Patch Installation Record Form for the Production Environment.
- 5) Print Appendix F: VBECS Patch Installation Record Form for the Production Environment and initial and date the printed copy. Save this with your records of previous VBECS installations.
- 6) Manually check the box on the printed copy of Appendix F: VBECS Patch Installation Record Form for the Production Environment verifying that the form was printed, initialed and dated.
- 7) Notify the blood bank that the patch has been successfully installed in the Production account and request the blood bank to verify that the Production account can receive orders.

For new VBECS installations: Begin VistA Database Conversion in accordance with Blood Bank Pre-Implementation Data Validation, Mapping, and Conversion ADPAC Guide if the conversion process has not already been completed

Glossary

Acronym, Term	Definition
.NET	Microsoft's framework for Web services and component software (pronounced "dot net").
CPS (formerly EPS, formerly EVS)	Clinical Product Support.
IRM	Information Resource Management.
Remote Desktop Connection (formerly Terminal Services)	The connectivity tool used to access VBECS on the server.
VBECS	VistA Blood Establishment Computer Software.
Veterans Health Information Systems and Technology Architecture (VistA)	Formerly the Decentralized Hospital Computer Program (DHCP) of the Veterans Health Administration (VHA), Department of Veterans Affairs (VA). VistA software, developed by the VA, is used to support clinical and administrative functions at VA Medical Centers nationwide. It is written in M and, via the Kernel, runs on all major M implementations regardless of vendor. VistA is composed of packages that undergo a verification process to ensure conformity with name spacing and other VistA standards and conventions.

This page intentionally left blank.

Appendices

Appendix A: Installation Logs

Parts of the installation produce logs, which can help resolve installation issues. The logs and their locations are as follows:

- VBECS Patch Scripts on the cluster.
 - When the patch is executed for the Test environment, a log file will be created in:
 - L:\VBECS_Archive\VBECSRecords\VBECS_<mmddyy>_1.5.0.4_to_1.5.1.1\test\<cluster>.<nnn.med.va.gov>_VBECS_1.5.1.1_test_<hhmm>.log as the file name, where:
 - <mmddyy> represents the date the patch was run.
 - <hhmm> represents the hour and minute the patch began execution.
 - <nnn> represents 'vha' or 'region name' (e.g. RO1).

For example, vhaxxxcluz1.vha.med.va.gov_VBECS_1.5.1.1_test_1504.log.

- When the patch is executed for the Prod environment, a log file will be created in:
 - L:\VBECS_Archive\VBECSRecords\VBECS_<mmddyy>_1.5.0.4_to_1.5.1.1\prod\<cluster>.<nnn.med.va.gov>_VBECS_1.5.1.1_prod_<hhmm>.log as the file name, where:
 - <mmddyy> represents the date the patch was run.
 - <hhmm> represents the hour and minute the patch began execution.
 - <nnn> represents 'vha' or 'region name' (e.g. RO1).

For example, vhaxxxcluz1.vha.med.va.gov_VBECS_1.5.1.1_prod_1504.log.

This page intentionally left blank.

Appendix B: Active Directory Server Administrator Groups

Each site has two user groups in Active Directory (VHA.med.va.gov\VBECS\VBECS Users) that support VBECS. Members of the administrative group can access the administrative component of VBECS. Members of the user group can access functional components of VBECS. Multidivisional sites share groups. Table 1 lists all group names.

Table 1: Group Names

VISN	Facility #	Facility	Server Administrative Group	VBECS Admin AD Group
1	523	Boston (Boston HCS)	vhaBHS VbecsServerAdmins	vhaBHS VBECS Administrators
	608	Manchester	vhaMANVbecsServerAdmins	vhaMANVBECSAdministrators
	631	Northampton	vhaNHMVbecsServerAdmins	vhaNHMVBECSAdministrators
	650	Providence	vhaPROVbecsServerAdmins	vhaPROVbecsAdministrators
	402	Togus	vhaTOGVbecsServerAdmins	vhaTOGVbecs Administrators
	689	West Haven (Connecticut HCS)	vhaCONVbecsServerAdmins	vhaCONVbecsAdministrators
	405	White River Junction	vhaWRJVbecsServerAdmins	vhaWRJVbecsAdministrators
2	528A8	Albany (Upstate New York HCN) MC	VhaUNYVbecsServerAdmins	vhaUNYVbecsAdministrators
	528A6	Bath (Upstate New York HCN)		
	528	Buffalo (Upstate New York HCN)		
	528A5	Canandaigua VA Medical Center		
	528A7	Syracuse (Upstate New York HCS)		
3	526	Bronx	vhaBRXVbecsServerAdmins	vhaBRXVbecsAdministrators
	620A4	Castle Point (Hudson Valley HCS)	vhaHVVbecsServerAdmins	vhaHVVbecsAdministrators
	561	East Orange (New Jersey HCS)	vhaNJHVbecsServerAdmins	vhaNJHVbecsAdministrators
	630	New York (New York Harbor HCS) New York	vhaNYHVbecsServerAdmins	vhaNYHVbecsAdministrators
	630A4	New York (New York Harbor HCS) Brooklyn		
	632	Northport	vhaNOPVbecsServerAdmins	vhaNOPVbecsAdministrators
4	503	Altoona	vhaALTVbecsServerAdmins	vhaALTVbecsAdministrators
	529	Butler	vhaBUTVbecsServerAdmins	vhaBUTVbecsAdministrators
	540	Clarksburg	vhaCLAVbecsServerAdmins	vhaCLAVBECSAdministrators
	542	Coatesville	vhaCOAVbecsServerAdmins	vhaCOAVbecsAdministrators
	562	Erie	vhaERIVbecsServerAdmins	vhaERIVbecsAdministrators
	595	Lebanon	vhaLEBVbecsServerAdmins	vhaLEBVbecsAdministrators
	642	Philadelphia	vhaPHIVBECS_ADM	vhaPhiladelphiaBBAdmin
	646	Pittsburgh University Drive (Pittsburgh HCS)	vhaPTHVbecsServerAdmins	vhaPTHVbecsAdministrators
	693	Wilkes-Barre	vhaWBPVbecsServerAdmins	vhaWBPVbecsAdministrators
	460	Wilmington	vhaWIMVbecsServerAdmins	vhaWIMVbecsAdministrators
5	512	Baltimore (Maryland HCS)	vhaBALVbecsServerAdmins	vhaBALVbecsAdministrators
	512A5	Perry Point (Maryland HCS)		
	613	Martinsburg	vhaMWVVbecsServerAdmins	vhaMWVVbecsAdministrators
	688	Washington	vhaWASVbecsServerAdmins	vhaWAS VBECS Administrators
6	637	Asheville	vhaASHVbecsServerAdmins	vhaASHVbecsAdministrators
	517	Beckley	vhaBECVbecsServerAdmins	vhaBECVbecsAdministrators
	558	Durham	vhaDURAdmin	v06DURVbecsAdministrators


VISN	Facility #	Facility	Server Administrative Group	VBECs Admin AD Group
	565	Fayetteville NC	vhaFNCVbecsServerAdmins	vhaFNCVbecsAdministrators
	590	Hampton	vhaHAMVbecsServerAdmins	vhaHAMVbecsAdministrators
	652	Richmond	vhaRICVbecsServerAdmins	vhaRICVbecsAdministrators
	658	Salem	vhaSAMVbecsServerAdmins	vhaSAMVbecsAdmins
	659	Salisbury (Heffner)	vhaSBYVbecsServerAdmins	vhaSBYVbecsAdministrators
7	508	Atlanta	vhaATGVbecsServerAdmins	vhaATGVbecsAdministrators
	509	Augusta	vhaAUGVbecsServerAdmins	vhaAUGVbecsAdministrators
	521	Birmingham MC	vhaBIRVbecsServerAdmins	vhaBIRVbecsAdministrators
	534	Charleston	vhaHAVbecsServerAdmins	vhaHAVbecsAdministrators
	544	Columbia SC	vhaCMSVbecsServerAdmins	vhaCMSVbecsAdministrators
	557	Dublin	vhaDUBVbecsServerAdmins	vhaDUBVbecsAdministrators
	619	Montgomery (Central Alabama HCS)	vhaCAVVbecsServerAdmins	vhaCAVVbecsAdministrators
	619A4	Tuskegee (Central Alabama HCS)		
8	516	Bay Pines MC	vhaBAYVbecsServerAdmins	vhaBAYVbecsAdministrators
	573	Gainesville (N Florida/S Georgia HCS)	vhaNFLVbecsServerAdmins	vhaNFL VbecsAdministrators
	573A4	Lake City (N Florida/S Georgia HCS)		
	672	San Juan	vhaSAJVbecsServerAdmins	vhaSAJVbecsAdministrators
	546	Miami	vhaMIAVbecsServerAdmins	vhaMIAVbecsAdministrators
	673	Tampa	vhaTAMVbecsServerAdmins	vhaTAMVbecsAdministrators
	548	West Palm Beach	vhaWPBVbecsServerAdmins	vhaWPBVbecsAdministrators
9	581	Huntington	vhaHUNVbecsServerAdmins	vhaHUNVbecsAdministrators
	596	Lexington	vhaLEXVbecsServerAdmins	vhaLEXVbecsAdministrators
	603	Louisville	vhaLOUVbecsServerAdmins	vhaLOUVbecsAdministrators
	614	Memphis	vhaMEMVbecsServerAdmins	vhaMEMVbecsAdministrators
	621	Mountain Home	VhaMOUVbecsServerAdmins	vhaMOUVbecsAdministrators
	626	Nashville (Tennessee Valley HCS)	vhaTVHVbecsServerAdmins	vhaTVHVbecsAdministrators
	626A4	Murfreesboro (Tennessee Valley HCS)		
10	538	Chillicothe	vhaCLLVbecsServerAdmins	vhaCLLVbecsAdministrators
	539	Cincinnati	v10CINAdmin	v10CinVbecsAdministrators
	541	Cleveland Wade Park	v10CLEAdmin	vHACLEVbecsAdministrators
		Columbus	v10COSVbecsServerAdmins	v10COSVbecsAdministrators
	552	Dayton	v10DAYVbecsServerAdmins	vhaDAYVbecsAdministrators
11	506	Ann Arbor	vhaANN_VbecsServerAdmins	vhaANN_VbecsAdministrators
	515	Battle Creek	vhaBACVbecsServerAdmins	vhaBACVbecsAdministrators
	550	Danville (Illiana HCS)	vhaDANVbecsServerAdmins	vhaDANVbecsAdministrators
	553	Detroit Allen Park	vhaDETVbecsServerAdmins	vhaDETVbecsAdministrators
	610	Marion IN (Northern Indiana HCS)	vhaNINVbecsServerAdmins	VhaNinVbecsAdministrators
	610A4	Fort Wayne (Northern Indiana HCS)		
	583	Indianapolis	vhaIND_VBECs_ADMIN	vhalindianapolisBBAdmin
	655	Saginaw	vhaSAGVbecsServerAdmins	vhaSAGVbecsAdmin
12	537	Chicago Westside (Chicago HCS)	v12CHSVbecsServerAdmins	v12CHSVbecsAdministrators
	578	Hines VA Hospital	v12HINVbecsServerAdmins	v12HINVbecsAdministrators
	585	Iron Mountain	vhaIROVbecsServerAdmins	vhaIROVbecsAdministrators
	607	Madison	v12MADVbecsServerAdmins	v12MADVbecsAdministrators
	695	Milwaukee	v12MIWVbecsServerAdmins	v12MIWVbecsAdministrators
	556	North Chicago	v12NCHVbecsServerAdmins	v12NCHVbecsAdministrators

VISN	Facility #	Facility	Server Administrative Group	VBECs Admin AD Group
	676	Tomah	vhaTOMVbecsServerAdmins	vhaTOMVbecsAdministrators
15	589	Kansas City (Heartland West HCS)	v15KANVbecsAdministrator	v15KANVbecsAdministrator
	589A4	Columbia MO (Heartland West HCS)		
	589A5	Topeka (Eastern Kansas HCS)		
	589A6	Leavenworth (Eastern Kansas HCS)		
	589A7	Wichita		
	657	St. Louis (Heartland East HCS)	STL VBECs Server Administration	EasternOrbitVbecsAdmin
	657A4	Poplar Bluff (Heartland East HCS)		
	657A5	Marion IL		
16	502	Alexandria	vhaALXVbecsServerAdmins	vhaALXVbecsAdministrators
	520	Biloxi (VA Gulf coast HCS)	v16BILVbecsServerAdmins	v16BILVbecsAdministrators
	564	Fayetteville AR	v16FAVVbecsServerAdmins	v16FAVVbecsAdministrators
	580	Houston	vhaHOUVbecsServerAdmins	vhaHOUVbecsAdministrators
	586	Jackson	v16JACVbecsServerAdmins	v16JACVbecsAdministrators
	598	Little Rock (Central AR Veterans HCS)	v16LITVbecsServerAdmins	v16LITVbecsAdministrators
	623	Muskogee	vhaMUSVbecsServerAdmins	vhaMUSVbecsAdministrators
	629	New Orleans (SE Louisiana HCS)		
	635	Oklahoma City	v16OKLVbecsServerAdmins	v16OKLVbecsAdministrators
	667	Shreveport	v16SHVVbecsServerAdmins	v16SHVVbecsAdministrators
17	549	Dallas (North Texas HCS)	v17NTXVbecsServerAdmins	v17NTXVbecsAdministrators
	671	San Antonio (South Texas HCS)	v17STXVbecsServerAdmins	v17STXVbecsAdministrators
	671A4	Kerrville (South Texas HCS)		
	674	Temple (Central Texas HCS)	v17CTXVbecsServerAdmins	v17CTXVbecsAdministrators
18	501	Albuquerque (New Mexico HCS)	R01VBECSServerAdmins	R01ABQVbecsAdministrators
	504	Amarillo	R01VBECSServerAdmins	R01AMAVbecsAdministrators
	519	Big Spring (VA W Texas HCS)	R01VBECSServerAdmins	R01BIGVbecsAdministrators
	644	Phoenix	R01VBECSServerAdmins	R01PHOVbecsAdministrators
	649	Prescott (VA Northern Arizona HCS)	R01VBECSServerAdmins	R01PREVbecsAdministrators
	678	Tucson (VA Southern Arizona HCS)	R01VBECSServerAdmins	R01TUCVbecsAdministrators
19	442	Cheyenne	R01VBECSServerAdmins	R01CHYVbecsAdministrators
	554	Denver (Eastern Colorado HCS)	R01VBECSServerAdmins	R01DENVbecsAdministrators
	436	Fort Harrison (Montana HCS)	R01VBECSServerAdmins	R01FHMVbecsAdministrators
	575	Grand Junction	R01VBECSServerAdmins	R01GRJVbecsAdministrators
	660	Salt Lake City	R01VBECSServerAdmins	R01SLCVbecsAdministrators
20	531	Boise	R01VBECSServerAdmins	R01BOIVbecsAdministrators
	648	Portland (/Vancouver)	R01VBECSServerAdmins	R01PORVbecsAdministrators
	653	Roseburg (VA Roseburg HCS)	R01VBECSServerAdmins	R01ROSVbecsAdministrators
	663	Seattle (Puget Sound HCS)	R01VBECSServerAdmins	R01PugVbecsAdministrators
	663A4	American Lake (Puget Sound HCS)		
	668	Spokane	R01VBECSServerAdmins	R01SPOVbecsAdministrators

VISN	Facility #	Facility	Server Administrative Group	VBECs Admin AD Group
21	570	Fresno (VA Central California HCS)	R01VBECSServerAdmins	R01FREVBECsAdministrators
	640	Palo Alto (Palo Alto HCS)	R01VBECSServerAdmins	R01PALVbecsAdministrators
	640A4	Livermore (Palo Alto HCS)		
	612	Martinez (Northern California HCS)	R01VBECSServerAdmins	R01MACVbecsAdministrators
	612A4	Sacramento (Northern California HCS)		
	654	Reno (VA Sierra Nevada HCS)	R01VBECSServerAdmins	R01RenVbecsAdministrators
	662	San Francisco	R01VBECSServerAdmins	R01SFCVBECsAdministrators
22	605	Loma Linda	R01VBECSServerAdmins	R01LOMVbecsAdministrators
	600	Long Beach	R01VBECSServerAdmins	R01LONVbecsAdministrators
	664	San Diego	R01VBECSServerAdmins	R01SDCVbecsAdministrators
	691	West Los Angeles (Greater Los Angeles HCS)	R01VBECSServerAdmins	R01GLAVbecsAdministrators
	636	Omaha (NWIHS)	v23OMAVBECSServerAdmins	v23OMAVbecsAdministrators
23	636A6	Des Moines (Central Plains Network)		
	636A8	Iowa City		
	437	Fargo	v23FARVbecsServerAdmins	v23FARVbecsAdministrators
	568	Fort Meade(Black Hills HCS)	v23BHHVbecsServerAdmins	v23BHHVbecsAdministrators
	568A4	Hot Springs (Black Hills HCS)		
	618	Minneapolis	v23MINVbecsServerAdmins	v23MINVbecsAdministrators
	438	Sioux Falls	v23SUXVbecsServerAdmins	V23SUXVbecsAdministrators
	656	St. Cloud	v23STCVbecsServerAdmins	V23STCVbecsAdministrators
CPS	NA	Salt Lake City and Albany	R01VBECSServerAdmins	R01SLCVbecsAdministrators

Appendix C: Instructions for Capturing Screen Shots for Installation Records

Throughout the installation guide, the user is asked to capture screen shots at various points in the installation to confirm that the installation was performed correctly. These points are indicated by the

camera icon:  .

To capture a screen shot:

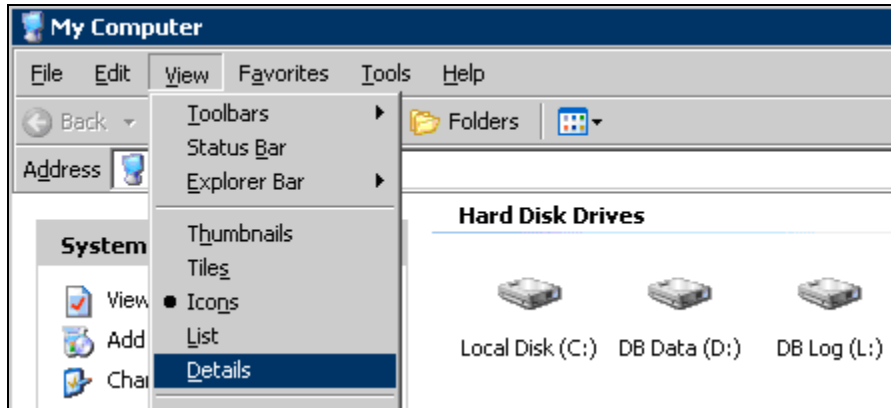
- 1) When the screen you wish to capture is displayed, press **Ctrl + Alt + Print Screen key**.
- 2) In the *VBECS Patch Installation Record Form for the Test (or Production) Environment*, place the cursor where you want to insert the picture.
- 3) Press **Ctrl + V** to paste.

This page intentionally left blank.

Appendix D: Setup Detailed Folders View

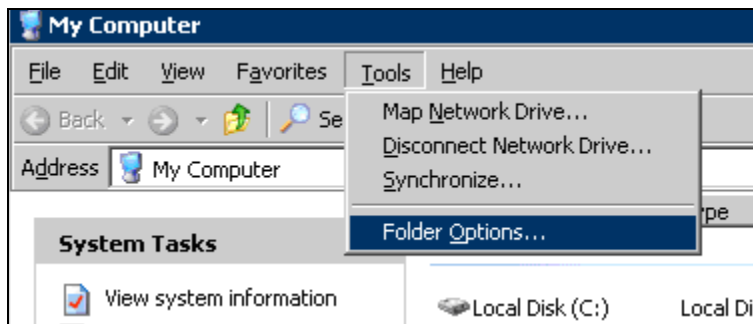
- 1) Click **Start, My Computer**.
- 2) Select **View, Details** (Figure 44).

Figure 44: Details Menu



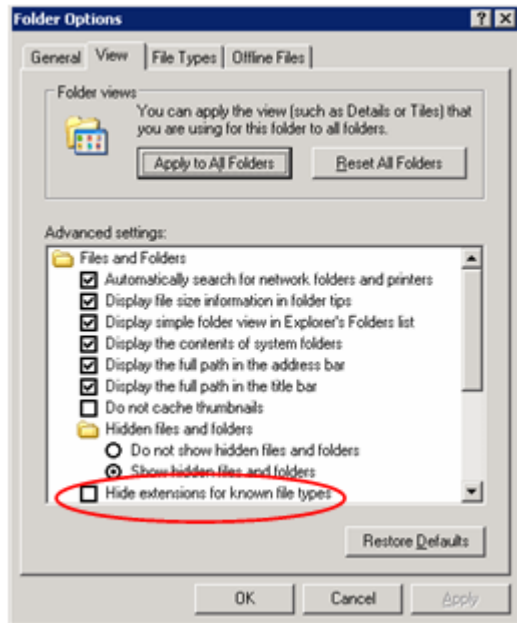
- 3) Select **Tools, Folder Options** (Figure 45).

Figure 45: Folder Options Menu



- 4) Select the **View** tab. Make sure the “Hide extensions for known file types” check box is clear (Figure 46).
- 5) Click **Apply to All Folders** (Figure 46).

Figure 46: Folder Options Dialog



- 6) At the prompt, click **Yes** to set the folders on your computer to match the current folder's view settings. Click **OK** to close the Properties dialog.

Appendix E: VBECS Patch Installation Record Form for the Test Environment

VBECS Patch Installation Record for the Test Environment

Complete each section of this installation record as you complete the corresponding installation steps:

- Insert screen shots, as indicated.
- Replace the text in angle brackets and delete the brackets.
- To select a check box, double-click it, and then click the **Checked** radio button under Default value.
- Copy and paste the contents of this appendix into a separate Word document.
- Print, sign and date the completed appendix.
- Add all printed documents related to Appendix E to the package for the Validation Records.

Installation Procedure for the Test Environment

1 Download the VBECS 1.5.1.1 Patch File

Step 14: Screen Shot: FTP Transfer Completed.

<Insert screen shot.>

2 Verify the Contents of the VBECS 1.5.1.1 Patch File

Step 9: ☐ Verified the VBECS_Patch_1.5.1.1_110510 file contents.

Step 11: Screen Shot: VBECS_Patch_1.5.1.1_110510 Properties

<Insert screen shot.>

3 Prerequisites for Installation

N/A

4 Execute VBECS Patch Scripts against the Cluster

Step 8: ☐ Verified that all required Vista patches are installed.

Step 16: Screen shot: VBECS Patch process completed successfully.

<Insert screen shot.>

Step 18: VBECS Patch Log Output File Name

Log File:

5 Delete the Patch Files

Step 4: ☐ Deleted the VBECS 1.5.1.1 patch files on server.

Step 6: ☐ Verified that Appendix E was printed, initialed and dated.

List problems occurring in the installation process.

_____ Name (Print.)	_____ Title
------------------------	----------------

_____ Signature	_____ Date
--------------------	---------------

Give this patch installation record for the test environment to the blood bank supervisor, or follow your records retention policy.

Appendix F: VBECS Patch Installation Record Form for the Production Environment

VBECS Patch Installation Record for the Production Environment

Complete each section of this installation record as you complete the corresponding installation steps:

- Insert screen shots, as indicated.
- Replace the text in angle brackets and delete the brackets.
- To select a check box, double-click it, and then click the **Checked** radio button under Default value.
- Copy and paste the contents of this appendix into a separate Word document.
- Print, sign and date the completed appendix.
- Add all printed documents related to Appendix F to the package for the Validation Records.

Installation Procedure for the Production Environment

1 Download the VBECS 1.5.1.1 Patch File

Step 14: Screen Shot: FTP Transfer Completed.

<Insert screen shot.>

2 Verify the Contents of the VBECS 1.5.1.1 Patch File

Step 9: ☐ Verified the VBECS_Patch_1.5.1.1_110510 file contents.

Step 11: Screen Shot: VBECS_Patch_1.5.1.1_110510 Properties

<Insert screen shot.>

3 Prerequisites for Installation

N/A

4 Execute VBECS Patch Scripts against the Cluster

Step 8: ☐ Verified that all required VistA patches are installed.

Step 16: Screen shot: VBECS Patch process completed successfully.

<Insert screen shot.>

Step 18: VBECS Patch Log Output File Name

Log File:

5 Delete Patch Files

Step 4: ☐ Deleted the VBECS 1.5.1.1 Patch files on server.

Step 6: ☐ Verified that Appendix F was printed, initialed and dated.

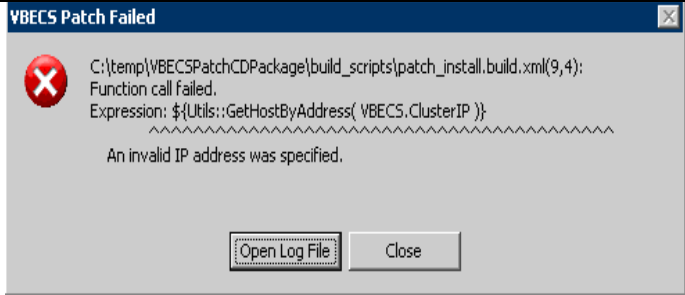
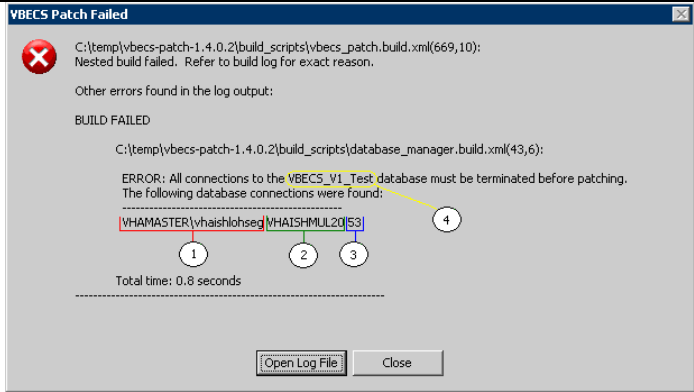
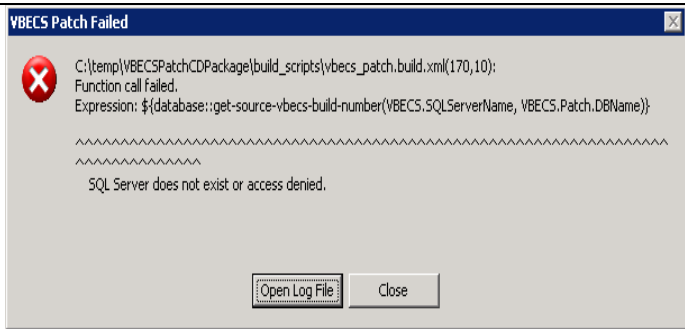
List problems occurring in the installation process.

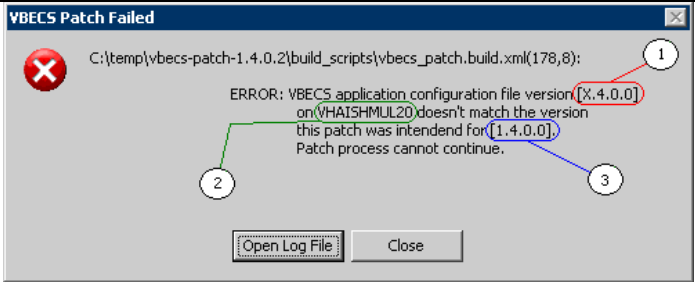
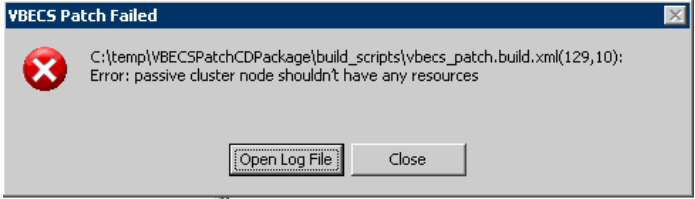
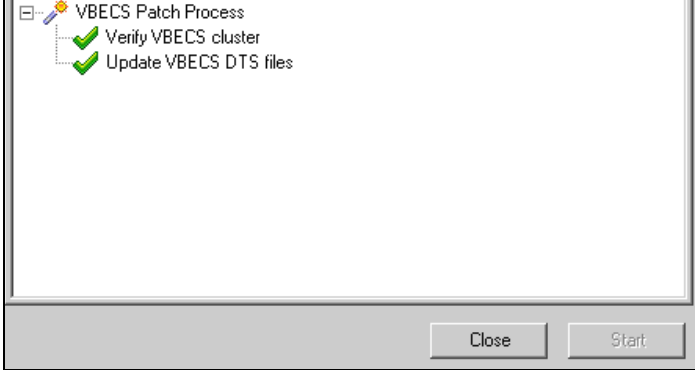

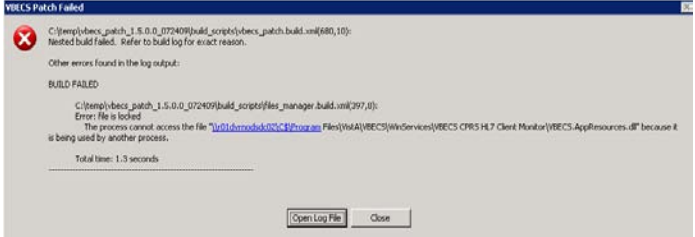
_____ Name (Print.)	_____ Title
------------------------	----------------

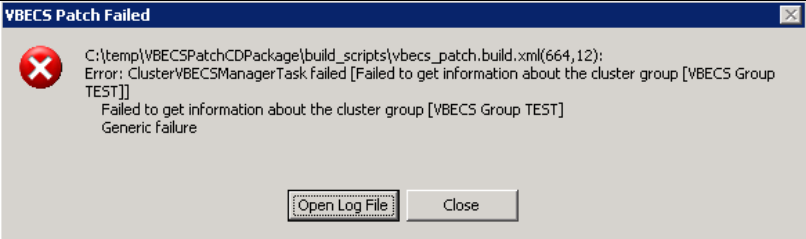
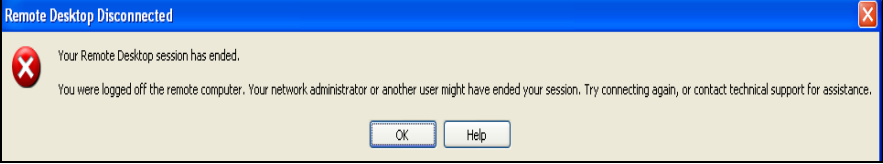
_____ Signature	_____ Date
--------------------	---------------

Give this patch installation record for the production environment to the blood bank supervisor, or follow your records retention policy.

Appendix G: Troubleshooting Messages

Error Message	Example Screen Shot	Solution
An invalid IP address was specified.		<p>An invalid IP was supplied as an input argument.</p> <p>OR</p> <p>The IP address was formatted correctly, but does not point to a VBECS server.</p> <p>Provide the correct IP Address.</p>
All connections to the <Database Name> database must be terminated before patching.		<p>A user has an active connection to the Database of the target environment.</p> <p>The information listed for each open connection is:</p> <ol style="list-style-type: none"> 1. User Login ID 2. Computer Name 3. SQL Process ID 4. Database Name <p>Contact the Database Administrator. Ask the DB Admin to kill all user processes running on the server.</p>
The SQL Server does not exist or access denied.		<p>The SQL Server Name supplied does not exist, cannot be accessed or the patcher does not have permission to use it.</p> <p>Check the SQL Server Name and Verify patches Database rights with the DB Admin.</p>

Error Message	Example Screen Shot	Solution
<p>VBECS application configuration file version [S.S.S.S] on <ACTIVE CLUSTER NODE> doesn't match the version this patch was intended for [T.T.T.T] Patch Process cannot continue.</p> <p>** [S.S.S.S] - Source</p> <p>** [T.T.T.T] - Target</p>		<p>The database version does not match the version the patch was coded to update.</p> <ol style="list-style-type: none"> 1. BuildNumber version found in the VBECS.exe.config file. 2. Cluster node containing the suspect file. 3. Target Patch version. <p>Contact the VBECS Administrator to resolve build number discrepancies (i.e., this patch may already be installed).</p>
<p>The Passive Cluster node should not have active resources.</p>		<p>The Passive node has active resources.</p> <p>Contact the VBECS Administrator to resolve cluster configuration issues.</p>
<p>The Start button of the VBECS GUI Patch is disabled</p>		<p>Either the patch is running or the patch has completed.</p> <p>Click Close.</p> <p>Open a new VBECS Patch form by double-clicking  VBECS Patch shortcut.</p>
<p>Access denied</p>		<p>The VBECS Services were not stopped or the patch files are Read-only.</p>

Error Message	Example Screen Shot	Solution
VBECS Patch Failed		<p>The VBECS Group Test (VBECS Test Services) may have been stopped.</p> <p>Right click on VBECS Group Test and select Bring Online.</p>
Remote Desktop Disconnected		<p>The user applying the patch has an active session at the server (KVM) console. Log of the server console and repeat the patch process.</p>

This page intentionally left blank.

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This page intentionally left blank.

Index

D

Delete Patch Files	
Prod	32
Test.....	18
Download and Verify the Contents of the VBECS Patch.....	5, 19
Download the VBECS 1.5.1.1 Patch File	5
Download the VBECS 1.5.1.1 Patch File	19

E

Execute VBECS Patch Scripts against the Cluster	
Prod	26
Test.....	12

H

How This Installation Guide Is Organized	3
--	---

I

Installation Logs.....	35
Installation Procedure for the Production Environment.....	19
Instructions for Capturing Screen Shots for Installation Records.....	41
Introduction.....	1

P

Prerequisites for Installation	
Production	25
Test.....	11
Problems?.....	3
Product Support	3

R

Related Manuals and Reference Materials.....	2
--	---

S

Screen Shots.....	3
Set Up Detailed Folders View	43

V

VA Service Desk.....	3
VBECS Patch Installation Record Form for the Production Environment.....	47
VBECS Patch Installation Record Form for the Test Environment	45
Verify the Contents of the VBECS 1.5.1.1 Patch File.....	7
Verify the Contents of the VBECS 1.5.1.1 Patch File.....	22

This is the last page of *VistA Blood Establishment Computer Software (VBECS) 1.5.1
Patch Installation Guide*.