

**Vista Integration Adapter (VIA)  
VIAB 1\*14  
Installation, Back-out and Rollback Plan/RELEASE  
NOTES**



**Department of Veterans Affairs  
March 2019**

**Version 1.0**

## Revision History

**Note:** The revision history cycle begins once changes or enhancements are requested after the Installation, Back-out, Rollback Plan/RELEASE NOTES has been baselined.

Date	Version	Description	Author
March 2019	1.0	Updated for VIAB 1*14	<u>REDACTED</u>

## Artifact Rationale

The Installation, Back-out, Rollback Plan/ RELEASE NOTES defines the ordered, technical steps required to install the product, and if necessary, to back-out the installation, and to roll back to the previously installed version of the product.

# Table of Contents

- 1. Introduction ..... 1**
  - 1.1 Documentation and Distribution ..... 1**
- 2. System Requirements ..... 2**
- 3. Patch description and Installation Instructions..... 3**
  - 3.1. Patch Description ..... 3**
  - 3.2. Pre-Installation Instructions ..... 7**
  - 3.3. Installation Instructions ..... 7**
  - 3.4. Post-Installation Instructions ..... 8**
  - 3.5. KIDS Installation Example..... 8**
- 4. Backout and Rollback Procedure ..... 10**
  - 4.1. Overview of Backout and Rollback Procedures..... 10**
  - 4.2. Backout Procedure..... 10**
- 5. Rollback Procedure ..... 11**
- 6. RELEASE NOTES..... 12**
  - 6.1. Bed Management System (BMS) Date/Time Changes ..... 12**
  - 6.2. VIAB GET IMMUNIZATION TYPE RPC Entry ..... 12**
  - 6.3. VIA WEB SERVICE OPTION (Broker) Option..... 13**

# 1. Introduction

This document provides installation instructions for VIAB 1\*14, as managed through the VistA Integration Adapter project. All installation and back-out instructions must be documented in the Installation Plan, unless the operations documents specific tasks in Change Orders in the Change Management system and uses installation scripts to install a product. The Installation Plan always includes details of items that cannot be covered in Change Orders or installation scripts, including the criteria for determining if a back-out is necessary, the authority for making that decision, the order in which installed components will be backed out, the risks and criteria for a rollback, and authority for acceptance or rejection of the risks.

This VIAB patch introduces changes to the legacy VIA package Modules.

APPLICATION/VERSION	PATCH
VistA Integration Adapter V. 1.0	VIAB 1*14

This patch (VIAB 1\*14) is being released in the Kernel Installation and Distribution System (KIDS) distribution.

## 1.1 Documentation and Distribution

VIAB 1\*14 patch is being released via the Kernel Installation and Distribution System (KIDS).

Documentation can also be found on the VA Software Documentation Library at: <http://www.va.gov/vdl/application.asp?appid=221>

## **2. System Requirements**

There are no hardware interface features introduced with this project.

These enhancements are compatible with existing hardware. No hardware issues are involved with these enhancements.



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N/A

FORMS ASSOCIATED:

<u>FORM NAME</u>	<u>FILE NUMBER</u>	<u>NEW/MODIFIED/DELETED</u>
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N/A

MAIL GROUPS ASSOCIATED:

<u>MAIL GROUP NAME</u>	<u>NEW/MODIFIED/DELETED</u>
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N/A

OPTIONS ASSOCIATED:

<u>OPTION NAME</u>	<u>TYPE</u>	<u>NEW/MODIFIED/DELETED</u>
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VIAB WEB SERVICES OPTION	<u>BROKER (CLIENT/SERVER)</u>	<u>MODIFIED</u>
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PROTOCOLS ASSOCIATED:

<u>PROTOCOL NAME</u>	<u>NEW/MODIFIED/DELETED</u>
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N/A

SECURITY KEYS ASSOCIATED:

<u>SECURITY KEY NAME</u>
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N/A

TEMPLATES ASSOCIATED:

<u>TEMPLATE NAME</u>	<u>TYPE</u>	<u>FILE NAME (NUMBER)</u>	<u>NEW/MODIFIED/DELETED</u>
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N/A

REMOTE PROCEDURES ASSOCIATED:

<u>REMOTE PROCEDURE NAME</u>	<u>NEW/MODIFIED/DELETED</u>
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VIAB GET IMMUNIZATION TYPE	<u>MODIFIED</u>
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PARAMETER DEFINITIONS ASSOCIATED:

<u>PARAMETER NAME</u>	<u>NEW/MODIFIED/DELETED</u>
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N/A

ADDITIONAL INFORMATION:

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NEW SERVICE REQUESTS (NSRS):

N/A

PATIENT SAFETY ISSUES (PSIS):

N/A

DEFECT TRACKING SYSTEM TICKET(S) & OVERVIEW:

1. INC3239832 - SCHEDULED ADMISSIONS COMING OVER FROM VISTA ON WRONG DAY.

PROBLEM:

-----

WHEN START DATE AND END DATE WERE PASSING AS MIDNIGHT DATES TO RETURN ONE FULL DAY WORTH OF SCHEDULED ADMISSIONS, TWO FULL DAYS OF SCHEDULED ADMISSIONS WERE RETURNING.

RESOLUTION:

-----

CALL TO DTCHK^VIABMS1 HAS BEEN COMMENTED OUT.

TEST SITES:

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NORTH TEXAS VETERANS HEALTH CARE SYSTEM  
INDIANAPOLIS VA MEDICAL CENTER

SOFTWARE AND DOCUMENTATION RETRIEVAL INSTRUCTIONS:

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DOCUMENTATION DESCRIBING THE NEW FUNCTIONALITY AND/OR A HOST FILE CONTAINING A BUILD MAY BE INCLUDED IN THIS RELEASE.

THE PREFERRED METHOD IS TO RETRIEVE THE FILES FROM REDACTED. THIS TRANSMITS THE FILES FROM THE FIRST AVAILABLE SERVER. SITES MAY ALSO ELECT TO RETRIEVE THE FILES DIRECTLY FROM A SPECIFIC SERVER.

SITES MAY RETRIEVE THE SOFTWARE AND/OR DOCUMENTATION DIRECTLY USING SECURE FILE TRANSFER PROTOCOL (SFTP) FROM THE ANONYMOUS.SOFTWARE DIRECTORY AT THE FOLLOWING OI FIELD OFFICES:

REDACTED

DOCUMENTATION CAN ALSO BE FOUND ON THE VA SOFTWARE DOCUMENTATION LIBRARY AT: [HTTP://WWW.VA.GOV/VDL/APPLICATION.ASP?APPID=221](http://www.va.gov/vdl/application.asp?appid=221)

<u>DOCUMENTATION TITLE</u>	<u>FILE NAME</u>	<u>FTP MODE</u>
-----		
N/A		

<u>HOST FILE NAME</u>	<u>FTP MODE</u>
-----	
N/A	

PATCH INSTALLATION:

-----

PRE/POST INSTALLATION OVERVIEW:  
THIS PATCH CONTAINS PRE INSTALLATION INSTRUCTIONS.

PRE-INSTALLATION INSTRUCTIONS:  
THIS PATCH MAY BE INSTALLED WITH USERS ON THE SYSTEM. THIS PATCH SHOULD TAKE LESS THAN 5 MINUTES TO INSTALL.



NO MENU OPTIONS NEED TO BE DISABLED.

INSTALLATION INSTRUCTIONS:

1. THIS RELEASE IS PROVIDED USING PACKMAN, CHOOSE THE PACKMAN MESSAGE CONTAINING THIS BUILD. SELECT THE INSTALL/CHECK MESSAGE PACKMAN OPTION TO LOAD THE BUILD.
2. FROM THE KERNEL INSTALLATION AND DISTRIBUTION SYSTEM MENU, SELECT THE INSTALLATION MENU. FROM THIS MENU,
  - A. SELECT THE VERIFY CHECKSUMS IN TRANSPORT GLOBAL OPTION TO CONFIRM THE INTEGRITY OF THE ROUTINES THAT ARE IN THE TRANSPORT GLOBAL. WHEN PROMPTED FOR THE INSTALL NAME ENTER THE PATCH OR BUILD NAME VIAB\*1\*14.
  - B. SELECT THE BACKUP A TRANSPORT GLOBAL OPTION TO CREATE A BACKUP MESSAGE OF ANY ROUTINES EXPORTED WITH THIS PATCH. IT WILL NOT BACKUP ANY OTHER CHANGES SUCH AS DDS OR TEMPLATES.
  - C. YOU MAY ALSO ELECT TO USE THE FOLLOWING OPTIONS:
    - I. PRINT TRANSPORT GLOBAL - THIS OPTION WILL ALLOW YOU TO VIEW THE COMPONENTS OF THE KIDS BUILD.
    - II. COMPARE TRANSPORT GLOBAL TO CURRENT SYSTEM - THIS OPTION WILL ALLOW YOU TO VIEW ALL CHANGES THAT WILL BE MADE WHEN THIS PATCH IS INSTALLED. IT COMPARES ALL OF THE COMPONENTS OF THIS PATCH, SUCH AS ROUTINES, DDS, TEMPLATES, ETC.
  - D. SELECT THE INSTALL PACKAGE(S) OPTION AND CHOOSE THE PATCH (VIAB\*1\*14) TO INSTALL.
    - I. IF PROMPTED 'WANT KIDS TO REBUILD MENU TREES UPON COMPLETION OF INSTALL? YES//', PRESS <ENTER>.
    - II. WHEN PROMPTED 'WANT KIDS TO INHIBIT LOGONS DURING THE INSTALL? NO//', PRESS <ENTER>.
    - III. WHEN PROMPTED 'WANT TO DISABLE SCHEDULED OPTIONS, MENU OPTIONS AND PROTOCOLS? NO//', PRESS <ENTER>.
      - A. WHEN PROMPTED 'ENTER OPTIONS YOU WISH TO MARK AS 'OUT OF ORDER':', PRESS THE ENTER KEY.
      - B. WHEN PROMPTED 'ENTER PROTOCOLS YOU WISH TO MARK AS 'OUT OF ORDER':', PRESS THE ENTER KEY.
      - C. WHEN PROMPTED 'DELAY INSTALL (MINUTES): (0 - 60): 0//', ANSWER 0.

POST-INSTALLATION INSTRUCTIONS:

-----  
N/A

ROUTINE INFORMATION:

THE SECOND LINE OF EACH OF THESE ROUTINES NOW LOOKS LIKE:  
;;1.0;VISTA INTEGRATION ADAPTER;\*[PATCH LIST]\*\*;06-FEB-2014;BUILD 17

THE CHECKSUMS BELOW ARE NEW CHECKSUMS, AND  
CAN BE CHECKED WITH CHECK1^XTSUMBLD.

ROUTINE NAME: VIABMS1  
BEFORE: B102618166 AFTER: B103511639 \*\*8,11,13,14\*\*

ROUTINE LIST OF PRECEDING PATCHES: 13

=====  
REDACTED  
=====

### 3.2. Pre-Installation Instructions

Patch VIAB 1\*13 must be installed prior to installation of VIAB 1\*14.

This patch may be installed with users on the system. This patch should take less than 5 minutes to install.

No menu options need to be disabled.

### 3.3. Installation Instructions

INSTALLATION INSTRUCTIONS:

1. THIS RELEASE IS PROVIDED USING PACKMAN, CHOOSE THE PACKMAN MESSAGE CONTAINING THIS BUILD. SELECT THE INSTALL/CHECK MESSAGE PACKMAN OPTION TO LOAD THE BUILD.
2. FROM THE KERNEL INSTALLATION AND DISTRIBUTION SYSTEM MENU, SELECT THE INSTALLATION MENU. FROM THIS MENU,
  - A. SELECT THE VERIFY CHECKSUMS IN TRANSPORT GLOBAL OPTION TO CONFIRM THE INTEGRITY OF THE ROUTINES THAT ARE IN THE TRANSPORT GLOBAL. WHEN PROMPTED FOR THE INSTALL NAME ENTER THE PATCH OR BUILD NAME VIAB\*1\*14.
  - B. SELECT THE BACKUP A TRANSPORT GLOBAL OPTION TO CREATE A BACKUP MESSAGE OF ANY ROUTINES EXPORTED WITH THIS PATCH. IT WILL NOT BACKUP ANY OTHER CHANGES SUCH AS DDS OR TEMPLATES.
  - C. YOU MAY ALSO ELECT TO USE THE FOLLOWING OPTIONS:
    - I. PRINT TRANSPORT GLOBAL - THIS OPTION WILL ALLOW YOU TO VIEW THE COMPONENTS OF THE KIDS BUILD.
    - II. COMPARE TRANSPORT GLOBAL TO CURRENT SYSTEM - THIS OPTION WILL

ALLOW YOU TO VIEW ALL CHANGES THAT WILL BE MADE WHEN THIS PATCH IS INSTALLED. IT COMPARES ALL OF THE COMPONENTS OF THIS PATCH, SUCH AS ROUTINES, DDS, TEMPLATES, ETC.

- D. SELECT THE INSTALL PACKAGE(S) OPTION AND CHOOSE THE PATCH (VIAB\*1\*14) TO INSTALL.
- I. IF PROMPTED 'WANT KIDS TO REBUILD MENU TREES UPON COMPLETION OF INSTALL? YES//', PRESS <ENTER>.
- II. WHEN PROMPTED 'WANT KIDS TO INHIBIT LOGONS DURING THE INSTALL? NO//', PRESS <ENTER>.
- III. WHEN PROMPTED 'WANT TO DISABLE SCHEDULED OPTIONS, MENU OPTIONS AND PROTOCOLS? NO//', PRESS <ENTER>.
- A. WHEN PROMPTED 'ENTER OPTIONS YOU WISH TO MARK AS 'OUT OF ORDER':', PRESS THE ENTER KEY.
- B. WHEN PROMPTED 'ENTER PROTOCOLS YOU WISH TO MARK AS 'OUT OF ORDER':', PRESS THE ENTER KEY.
- C. WHEN PROMPTED 'DELAY INSTALL (MINUTES): (0 - 60): 0//', ANSWER 0.

Routine Information:  
=====

The second line of each of these routines now looks like:

```
;;1.0;VISTA INTEGRATION ADAPTER; **[Patch List]**;06-FEB-2014;Build 17
```

The checksums below are new checksums, and can be checked with CHECK1^XTSUMBLD.

Routine Name: VIABMS1  
Before: B102618166 After: B103511639 \*\*8,11,13,14\*\*

Routine list of preceding patches: 13

## 3.4. Post-Installation Instructions

-----  
N/A

## 3.5. KIDS Installation Example

-----  
Select Installation <TEST ACCOUNT> Option:

Select Kernel Installation & Distribution System <TEST ACCOUNT> Option:  
INInstallation

Select Installation <TEST ACCOUNT> Option: INInstall Package(s)  
Select INSTALL NAME: VIAB\*1.0\*14 3/12/19@10:04:31  
=> VIAB\*1\*14 TEST v2

This Distribution was loaded on Mar 12, 2019@10:04:31 with header of  
VIAB\*1\*14 TEST v2

It consisted of the following Install(s):

VIAB\*1.0\*14

Checking Install for Package VIAB\*1.0\*14

Install Questions for VIAB\*1.0\*14

Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO// Yes

Want KIDS to INHIBIT LOGONs during the install? NO//

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//

Enter the Device you want to print the Install messages.

You can queue the install by enter a 'Q' at the device prompt.

Enter a '^' to abort the install.

DEVICE: HOME// UCX/TELNET

VIAB\*1.0\*14

-----  
-----  
Installing REMOTE PROCEDURE

Installing OPTION

Updating Routine file...

Updating KIDS files...

VIAB\*1.0\*14 Installed.

Mar 12, 2019@10:20:45

Not a production UCI

NO Install Message sent  
-----  
-----

100%		25	50	75		
Complete	+	-----				+

Install Completed

## 4. Backout and Rollback Procedure

### 4.1. Overview of Backout and Rollback Procedures

The rollback plan for VistA applications is complex and not able to be a “one size fits all.” The general strategy for VistA rollback is to repair the code with a follow-on patch. The development team recommends that sites contact Enterprise Service Desk and log a ServiceNow ticket if it is a nationally released patch; otherwise, the site should contact the product development team directly for specific solutions to their unique problems.

### 4.2. Backout Procedure

During the VistA Installation Procedure of the KIDS build, the installer should have backed up the modified routines by the use of the ‘Backup a Transport Global’ action as specified in the Patch Description Installation Instructions. The installer can restore the routines using the MailMan message that were saved prior to installing the patch. The backout procedure for global, data dictionary and other VistA components is more complex and will require issuance of a follow-on patch to ensure all components are properly removed. All software components (routines and other items) must be restored to their previous state at the same time and in conjunction with restoration of the data. This backout may need to include a database cleanup process.

Please contact the product development team for assistance if the installed patch that needs to be backed out contains anything at all besides routines before trying to backout the patch. If the installed patch that needs to be backed out includes a pre or post install routine please contact the product development team before attempting the backout.

From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following option. When prompted for the INSTALL enter the patch #.

- a. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.

## **5. Rollback Procedure**

The rollback procedure for VistA patches is complicated and may require a follow-on patch to fully roll back to the pre-patch state. This is due to RPCs update and menu options updates.

Please contact the product development team for assistance if needed.

## 6. RELEASE NOTES

The following features in VIA are affected by this effort:

- Bed Management System (BMS) Date/Time Changes
- VIAB GET IMMUNIZATION TYPE RPC Entry
- VIAB WEB SERVICE OPTION (Broker)

### 6.1. Bed Management System (BMS) Date/Time Changes

The range returned between SDATE and EDATE (which are mandatory) was modified to be an inclusive range of times (not days).

### 6.2. VIAB GET IMMUNIZATION TYPE RPC Entry

This enhancement is the addition of documentation information entered into the REMOTE PROCEDURE File (#8994).

#### Before:

NAME: VIAB GET IMMUNIZATION TYPE	TAG: IMMTYPE
ROUTINE: VIABRPC	RETURN VALUE TYPE: ARRAY
AVAILABILITY: RESTRICTED	APP PROXY ALLOWED: <u>YES</u>
RETURN PARAMETER DESCRIPTION:	
RETURNS A LIST OF ACTIVE IMMUNIZATIONS.	

#### After:

NAME: VIAB GET IMMUNIZATION TYPE	TAG: IMMTYPE
ROUTINE: VIABRPC	RETURN VALUE TYPE: ARRAY
AVAILABILITY: RESTRICTED	APP PROXY ALLOWED: <u>YES</u>
DESCRIPTION:	
RETURNS A LIST OF ACTIVE IMMUNIZATIONS.	
INPUT PARAMETER: RESULT	PARAMETER TYPE: REFERENCE
REQUIRED: YES	SEQUENCE NUMBER: 1
DESCRIPTION:	
THIS FIELD IS PASSED BY REFERENCE AND THIS RPC POPULATES THE FIELD WITH IMMUNIZATION INFORMATION.	
INPUT PARAMETER: VIACVXS	PARAMETER TYPE: LITERAL
REQUIRED: NO	SEQUENCE NUMBER: 2
DESCRIPTION:	
ONE OR MORE CVX CODE(S) SEPARATED BY COMMAS TO BE RETRIEVED.	
RETURN PARAMETER DESCRIPTION:	
RETURNS A LIST OF ACTIVE IMMUNIZATIONS FROM IMMUNIZATIONS FILE (#9999999.14).	

#### EXAMPLE:

```
D IMMTYPE^VIABRPC(.RESULT,VIACVXS)
```

```
RETURNS: IMMUNIZATION IEN^SHORT NAME^CVX CODE^CPT CODE^CPT DESCRIPTION
```

```
RESULT(1)="71^INFLUENZA, HIGH DOSE SEASONAL^135^90662^FLU VACC PRSV FREE
```

```
INC ANT IG"  
RESULT(2)="1140^INFLUENZA, SEASONAL, INJECTABLE, PRESERVATIVE  
FREE^140^90656^FLU VACCINE NO PRESERV 3 & >"  
RESULT(3)="72^PNEUMOCOCCAL CONJUGATE PCV 13^133^90670^PNEUMOCOCCAL VACC 13  
VAL I M"  
VAL I M"
```

### **6.3. VIA WEB SERVICE OPTION (Broker) Option**

Reconcile the VIAB WEB SERVICE OPTION option with the list of RPCs that VIA has permission to use with the ICRs that were approved.