VistA Integration Adapter (VIA)
VIAB*1*15
Installation, Back-out, and Rollback Plan
RELEASE NOTES

Department of Veterans Affairs

May 2019

Version 0.10

Revision History

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

Date	Version	Description	Author
March 2017	0.1	Initial Version	Jennifer Morrison Cyrus
March 2017	0.2	Updated for VIAB*1*10	Aline Diener
July 2017	0.3	Updated for VIAB*1*11	Valarie Vanse
February 2018	0.7	Updated for VIAB*1*11	Valarie Vanse
February 2018	0.10	Updated for VIAB*1*11	Valarie Vanse
April 2018	0.14	Updated for VIAB*1*11	Valarie Vanse
May 2018	0.15	Updated for VIAB*1*11	Valarie Vanse
May 2018	0.5	Updated for VIAB*1*12	Valarie Vanse
July 2018	0.8	Updated for VIAB*1*12	Valarie Vanse
August 2018	0.2	Updated for VIAB*1*13	Valarie Vanse
March 2019	1.0	Updated for VIAB*1*14	Valarie Vanse
May 2019	1.0	Updated for VIAB*1*15	Valarie Vanse

Artifact Rationale

The Installation, Back-out, Rollback Plan 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

This document provides installation instructions for VIAB*1*15, as managed through the VistA Integration Adapter project. All installation and back-out instructions must be documented in the Installation Plan, unless the operations shop 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*15

This patch (VIAB*1*15) is being released in the Kernel Installation and Distribution System (KIDS) distribution.

1.1 Documentation and Distribution

VIAB*1*15 patch is being released via the Kernel Installation and Distribution System (KIDS).

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.

3. Patch Description and Installation Instructions

3.1.   Patch Description

```
==============================================================================
Run Date: MAY 16, 2019                     Designation: VIAB*1*15
Package : VISTA INTEGRATION ADAPTOR        Priority   : EMERGENCY
Version : 1                                Status     : COMPLETE/NOT
RELEASED
==============================================================================
Associated patches: (v)VIAB*1*11   <<= must be installed BEFORE `VIAB*1*15'

Subject:  BMS LISTORDERS/LISTORDERACTIONS MODIFICATIONS

Category:  ROUTINE

Description:
===========

This EMERGENCY patch is required to allow Bed Management System (BMS) to
migrate off of MDWS to VIA per the White House Mandate and to remediate
known security issues.

Changes include:

1. The LISTORDERS and LISTORDERACTIONS target of the VIAB BMS RPC is
being modified to sort by the DATE/TIME ORDERED field and use the "AF"
cross reference on the ORDER file for lookup.

2. The CURRENT ACTION field of the Order is the only ORDER ACTION
sub-entry evaluated.

3. DATE/TIME ORDERED sub-field of the ORDER ACTION sub-entry of the
Order is the field value used between the evaluating BMS start and end
times.

Patch Components:
-----------------
Files & Fields Associated:
File Name (Number)        Field Name (Number)     New/Modified/Deleted
------------------        -------------------     --------------------
N/A

Forms Associated:
Form Name                 File Number             New/Modified/Deleted
---------                 -----------             --------------------
N/A

Mail Groups Associated:
Mail Group Name           New/Modified/Deleted
---------------           --------------------
N/A
```

```
Options Associated:
Option Name                     Type            New/Modified/Deleted
---------------                 -----------     --------------------
N/A

Protocols Associated:
Protocol Name           New/Modified/Deleted
-------------           --------------------
N/A

Security Keys Associated:
Security Key Name
-----------------
N/A

Templates Associated:
Template Name       Type    File Name (Number)      New/Modified/Deleted
-------------       ----    ------------------      --------------------
N/A

Remote Procedures Associated:
Remote Procedure Name       New/Modified/Deleted
---------------------       --------------------
N/A

Parameter Definitions Associated:
Parameter Name          New/Modified/Deleted
--------------          --------------------
N/A

Additional Information:
-----------------------
New Service Requests (NSRs):
N/A

Patient Safety Issues (PSIs):
N/A

Defect Tracking System Ticket(s) & Overview:
1. INC3515187 - D/T Discharge Icons not showing on Dashboard

Problem:
--------
At times, "D" and "T" icons are not showing on the Bed Management System
(BMS) Dashboard after a patient has a discharge or transfer order placed.
It was determined that using the Clinical Reminders Index, with regards to
the order start date, wasn't a datetime value all the time.  Rather, start
date could be datetime, or, date only.  These, date only, values were not
picked up by the Bed Management System (BMS) background queues when run.

Resolution:
-----------
The LISTORDERS and LISTORDERACTIONS target of the RPC is being modified to
sort by DATE/TIME ORDERED and use the "AF" cross-reference on the ORDER
```

file for lookup.

Test Sites:

North Texas Veterans Health Care System
Indianapolis VA Medical Center

Software and Documentation Retrieval Instructions:

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
download.vista.med.va.gov. 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:

Hines: fo-hines.med.va.gov
Salt Lake City: fo-slc.med.va.gov

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

Documentation Title   File Name   FTP Mode

N/A

Host File Name   FTP Mode

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*15.

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*15) 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 <ENTER>.
         b. When prompted 'Enter protocols you wish to mark as 'Out
            Of Order':', press <ENTER>.
         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 5

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

Routine Name: VIABMS
    Before:B223339724   After:B225861141 **8,10,11,15**
Routine Name: VIABMS4
    Before: n/a   After: B31028755 **15**

```
Routine list of preceding patches: 11
===============================================================================
User Information:
  Entered By  :   WOODHOUSE,GREGORY    Date Entered  :   JUL 17,2018
  Completed By:   YORTY,M ROBERT       Date Completed:   MAY 15,2019
  Released By :                        Date Released :
===============================================================================
```

3.2.   Pre-Installation Instructions

Patch VIAB 1*11 must be installed prior to installation of VIAB 1*15.

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*15.

   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*15) 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 <ENTER>.
                b. When prompted 'Enter protocols you wish to mark as 'Out
                   Of Order':', press <ENTER>.
                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 2

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

Routine Name: VIABMS
     Before:B223339724   After:B225861141  **8,10,11,15**
Routine Name: VIABMS4
```

3.4.   Post-Installation Instructions

```
-------------------------------
N/A
```

3.5.   KIDS Installation Example

```
-------------------------------
Select Installation <TEST ACCOUNT> Option: 6  Install Package(s)
Select INSTALL NAME: VIAB*1.0*15      3/20/19@08:58:16
     => VIAB*1*15 TEST v1

This Distribution was loaded on Mar 20, 2019@08:58:16 with header of
   VIAB*1*15 TEST v1
   It consisted of the following Install(s):
    VIAB*1.0*15
Checking Install for Package VIAB*1.0*15

Install Questions for VIAB*1.0*15

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//   HOME  (CRT)
```

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.

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:

- The LISTORDERS and LISTORDERACTIONS target of the VIAB BMS RPC
- The CURRENT ACTION field of the Order
- The DATE/TIME ORDERED sub-field of the ORDER ACTION sub-entry of the Order

6.1. LISTORDERS and LISTORDERACTIONS Target of the VIAB BMS RPC

The LISTORDERS and LISTORDERACTIONS target of the VIAB BMS RPC is being modified to sort by the DATE/TIME ORDERED field and use the "AF" cross reference on the ORDER file for lookup.

6.2. CURRENT ACTION Field of the Order

The CURRENT ACTION field of the Order is the only ORDER ACTION sub-entry evaluated.

6.3. DATE/TIME ORDERED Sub-field of the ORDER ACTION Sub-entry of the Order

DATE/TIME ORDERED sub-field of the ORDER ACTION sub-entry of the Order is the field value used between the evaluating BMS start and end times.