VistA Integration Adapter (VIA)
VIAB 1*9
Installation, Back-out, and Rollback Plan

Department of Veterans Affairs

April 2017

Version 0.3

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
April 2017	0.3	Updated for VIAB 1*9	*REDACTED*
March 2017	0.2	Updated for VIAB 1*10	*REDACTED*
March 2017	0.1	Initial Version	*REDACTED*

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*9, 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.

NOTE: If any section of this template does not apply to the product, please indicate N/A in that section.

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

```
APPLICATION/VERSION                                                    PATCH
------------------------------------------------------------------------------------------------
VistA Integration Adapter V. 1.0                                      VIAB 1*9
```

This patch (VIAB 1*9) is being released in the Kernel Installation and Distribution System (KIDS) distribution.

1.1 Documentation and Distribution

```
VIAB 1*9 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

```
VistA Patch Display                                              Page: 1
================================================================================
Run Date: APR 03, 2017                    Designation: VIAB 1*9  TEST v
Package : VISTA INTEGRATION ADAPTOR       Priority   : MANDATORY
Version : 1                               Status     : UNDER DEVELOPMENT
================================================================================

Subject:  VIA INCREMENT 5 UPDATES

Category:  ROUTINE

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

The VistA integration Adaptor (VIA) system is a middleware used to transport
clinical and non-clinical electronic information between producing and
consuming applications in VA systems.  VIA utilizes remote procedure calls
(RPCs) for data requested by consuming applications.

The purpose of this patch is to publish RPCs that were added to the VIAB WEB
SERVICES OPTION in the OPTION file (#19), RPC field (#320).

Several new RPCs were created to meet the needs of consuming applications.
 VIAB ADMIN         This RPC returns administration time information: -
                       StartText^StartTime^Duration^FirstAdmin
 VIAB ALLSAMP       This RPC returns all collection samples in the format:
                     n^SampIEN^SampName^SpecPtr^TubeTop^^^LabCollect^^SpecName
 VIAB ALLSPEC       This RPC returns a list of specimens from the TOPOGRAPHY
                     FIELD file (#61).
 VIAB DEA SIGINFO   This RPC returns provider/patient info that must be
                     displayed when signing a controlled substance order(s).
 VIAB DEATEXT       This RPC returns the text to show on the signature
                     dialog mandated by DEA for when a controlled substance
                     order is selected to be signed.
 VIAB DEVICE        This RPC returns a list of print devices.
 VIAB DFLTSPLY      This RPC returns days supply given quantity.
 VIAB DOWSCH        This RPC returns a list of schedule that have a frequency
                     defined and the frequency is less than or equal to 1440
                     minutes.
 VIAB EFR           This RPC supports request for data from the Embedded
                     Fragment Registry (EFR) project. Data is returned from
                     RESEARCH File #67.1 and LAB DATA File #63.04.
 VIAB FUTURE LAB    This RPC returns the number of days in the future to
  COLLECTS          allow  lab collects.
 VIAB GET IMMUNIZATION TYPE
                    This RPC returns a list of active immunizations.
 VIAB GET LAB       This RPC returns a list of lab collect times for a date
  TIMES             and location.
 VIAB IC VALID      This RPC determines whether the supplied time is a valid
                     lab immediate collect time.
 VIAB IMMED COLLECT This RPC returns help text showing lab immediate collect
                     times for the user's division.
```

```
VIAB IMOLOC        This RPC returns - Is it an IMO order?
VIAB IMTYPSEL      This RPC returns data associated with imaging types.
VIAB INPLOC        This RPC returns a list of wards from the HOSPITAL
                   LOCATION file.
VIAB ISPROSVC      This RPC returns 1 or 0 if the input IEN in File #123.5
                   is marked as part of the Consults-Prosthetics interface.
VIAB LOAD          This RPC returns sample, specimen, & urgency info about
                   a lab test.
VIAB LOC TYPE      This RPC returns C for a Clinic and W for a Ward or -1
                   if not a clinic or ward type.
VIAB MAXDAYS       This RPC returns the maximum number of days for a
                   continuous lab order.
VIAB MEDHIST       This RPC returns Medication Administration History.
VIAB PROVDX        This RPC returns provisional diagnosis prompting
                   information for service.
VIAB SCDIS         This RPC returns service connected percentage and rated
                   disabilities for a patient.
VIAB SCHALL        This RPC returns a list of schedules for a location.
VIAB SCSEL         This RPC returns a list of the patient's service connected
                   conditions.
VIAB SRGY RPTLIST  This RPC returns a list of surgery data for a patient.
VIAB TIU SECVST    This RPC save the secondary visit  in TIU, if inpatient.
VIAB VALSCH        This RPC returns 1 if valid, 0 if not for a schedule.
VIAB VISIT         This RPC returns a list of visit types for a clinic.
VIABDPS2 OISLCT    This RPC returns the defaults for a pharmacy orderable
                   item.
VIABDXC ON         This RPC returns E if order checking enabled, otherwise D.
```

The following existing RPCs were added to VIAB WEB SERVICES OPTION.
   MD CLIO
   PX SAVE DATA

This patch corrects an error found by Bed Management System (BMS) while testing the "ListPatient" service. When an invalid patient number is passed in
as the input parameter, an error occurs LSTPAT+19^VIABMS *RESULT(3). Routine VIABMS was modified to prevent a hard error.

Patch Components:

Files & Fields Associated:

```
 File Name (Number)        Field Name (Number)    New/Modified/Deleted
 ------------------        -------------------    --------------------
 N/A
```

Forms Associated:

```
 Form Name                    File #               New/Modified/Deleted
 ---------                    ------               --------------------
 N/A
```

Mail Groups Associated:

```
 Mail Group Name       New/Modified/Deleted
 ---------------       --------------------
```

```
N/A

Options Associated:

Option Name              Type                  New/Modified/Deleted
-----------              ----                  --------------------
 VIAB WEB SERVICES OPTION  Broker (Client/Server)  Modified

 RPCs added to VIAB WEB SERVICES option by this patch:
     MD CLIO                                      SEND TO SITE
     PX SAVE DATA                                 SEND TO SITE
     VIAB ADMIN                                   SEND TO SITE
     VIAB ALLSAMP                                 SEND TO SITE
     VIAB ALLSPEC                                 SEND TO SITE
     VIAB DEA SIGINFO                             SEND TO SITE
     VIAB DEATEXT                                 SEND TO SITE
     VIAB DEVICE                                  SEND TO SITE
     VIAB DFLTSPLY                                SEND TO SITE
     VIAB DOWSCH                                  SEND TO SITE
     VIAB EFR                                     SEND TO SITE
     VIAB FUTURE LAB COLLECTS                     SEND TO SITE
     VIAB GET IMMUNIZATION TYPE                   SEND TO SITE
     VIAB GET LAB TIMES                           SEND TO SITE
     VIAB IC VALID                                SEND TO SITE
     VIAB IMMED COLLECT                           SEND TO SITE
     VIAB IMOLOC                                  SEND TO SITE
     VIAB IMTYPSEL                                SEND TO SITE
     VIAB INPLOC                                  SEND TO SITE
     VIAB ISPROSVC                                SEND TO SITE
     VIAB LOAD                                    SEND TO SITE
     VIAB LOC TYPE                                SEND TO SITE
     VIAB MAXDAYS                                 SEND TO SITE
     VIAB MEDHIST                                 SEND TO SITE
     VIAB PROVDX                                  SEND TO SITE
     VIAB SCDIS                                   SEND TO SITE
     VIAB SCHALL                                  SEND TO SITE
     VIAB SCSEL                                   SEND TO SITE
     VIAB SRGY RPTLIST                            SEND TO SITE
     VIAB TIU SECVST                              SEND TO SITE
     VIAB VALSCH                                  SEND TO SITE
     VIAB VISIT                                   SEND TO SITE
     VIABDPS2 OISLCT                              SEND TO SITE
     VIABDXC ON                                   SEND TO SITE

 Option Details:
     Field              Value
     -----              -----
     NAME (#.01):         VIAB WEB SERVICES OPTION
     MENU TEXT (#1):      VIAB Web Services Option
     DESCRIPTION (#3.5):  This option is required by the Kernel Broker
                          to give access to the RPCs used by the Vista
                          Integration Adapter (VIA) team.


New Remote Procedure Calls:
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VIAB ADMIN
```

```
 VIAB ALLSAMP
 VIAB ALLSPEC
 VIAB DEA SIGINFO
 VIAB DEATEXT
 VIAB DEVICE
 VIAB DFLTSPLY
 VIAB DOWSCH
 VIAB EFR
 VIAB FUTURE LAB COLLECTS
 VIAB GET IMMUNIZATION TYPE
 VIAB GET LAB TIMES
 VIAB IC VALID
 VIAB IMMED COLLECT
 VIAB IMOLOC
 VIAB IMTYPSEL
 VIAB INPLOC
 VIAB ISPROSVC
 VIAB LOAD
 VIAB LOC TYPE
 VIAB MAXDAYS
 VIAB MEDHIST
 VIAB PROVDX
 VIAB SCDIS
 VIAB SCHALL
 VIAB SCSEL
 VIAB SRGY RPTLIST
 VIAB TIU SECVST
 VIAB VALSCH
 VIAB VISIT
 VIABDPS2 OISLCT
 VIABDXC ON

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


 Patient Safety Issues (PSIs):
 ----------------------------
 N/A


 Remedy Ticket(s) & Overview:
 ---------------------------
 N/A


Test Sites:
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Central Alabama Veterans Health Care System
VA Gulf Coast Veterans Health Care System


Patch Installation:
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Pre/Post Installation Overview:
```

```
------------------------------
```
Patch VIAB 1*8 must be installed prior to installation of VIAB 1*9.

Pre-Installation Instructions:
```
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```
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:
```
--------------------------
```
This installation will install modified Remote Procedure Calls (RPCs).

1. Choose the PackMan message containing this patch.

2. Choose the INSTALL/CHECK MESSAGE PackMan option.

3. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following options. When prompted for the INSTALL NAME enter the patch VIAB 1*9:
    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 DDs or templates.
    b. 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 components of this patch (routines, DDs, templates, etc.).
    c. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.

4. From the Installation Menu, select the Install Package(s) option and choose the patch (VIAB 1*9) to install.

5. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//', press <ENTER>.

6. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', press <ENTER>.

7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', press <ENTER>.

8. If prompted 'Delay Install (Minutes): (0 - 60): 0//' respond 0.

Post-Installation Instructions:
```
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```
N/A

Routine Information:

```
====================


Routine Information:
====================


No routines included.


===============================================================================
User Information:
  Entered By  :    REDACTED     Date Entered  :   SEP 21,2016
  Completed By:                            Date Completed:
  Released By :                            Date Released :
===============================================================================
```

3.2.   Pre-Installation Instructions

Patch VIAB 1*8 must be installed prior to installation of VIAB 1*9.

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.   Choose the PackMan message containing this patch.

 2.   Choose the INSTALL/CHECK MESSAGE PackMan option.

 3.   From the Kernel Installation and Distribution System Menu, select
      the Installation Menu.  From this menu, you may elect to use the
      following options. When prompted for the INSTALL NAME enter the
      patch VIAB 1*9:
      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 DDs or templates.
      b.   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 components of this patch
           (routines, DDs, templates, etc.).
      c.   Verify Checksums in Transport Global - This option will allow
```

           you to ensure the integrity of the routines that are in the
           transport global.

4. From the Installation Menu, select the Install Package(s) option and
     choose the patch (VIAB 1*9) to install.

5. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of
     Install? YES//', press <ENTER>.

6. When prompted 'Want KIDS to INHIBIT LOGONs during the install?
     NO//', press <ENTER>.

7. When prompted 'Want to DISABLE Scheduled Options, Menu Options,
     and Protocols? NO//', press <ENTER>.

8. If prompted 'Delay Install (Minutes): (0 - 60): 0//' respond 0.

3.4.   Post-Installation Instructions

```
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```
N/A

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 log a Remedy 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.