Meaningful Use

New VistA Data Elements

Preferred Language

Installation Guide

Patches DG*5.3*887
SD*5.3*619

January 2017
V 1.2

Revision History

Date	Version	Description	Author
1/2017	1.2	Revised host file name	Ruth Gong
8/2016	1.1	Revised per input from Donna Fitch, Release Manager	Sami Alsahhar B. Donaldson
7/2016	1.0	Section 6, Installation, now contains up-to-date instructions.	Hilary Miller B. Donaldson
7/2016	0.2	Technical edits	Bobbie Donaldson
8/2014	0.1	Initial Installation Instructions. This patch supports changes that allow the electronic filing of Preferred Language elements to meet the Meaningful Use 2014 Edition certification criteria.	• VA Project Manager Preston Wang • Lead Developer Wiley Stuckey • PIMS SME Charleen Ray

Table of Contents

1. Introduction

The Preferred Language Patches (DG*5.3*887 and SD*5.3*619) are an enhancement to the Veterans Health Information Systems and Technology Architecture (VistA) Patient Registration (DG) and Scheduling (SD) modules. These two bundled patches contain the necessary software changes for capturing a patient's preferred language (the language that the patient prefers to use during a healthcare visit) in the VA's CPRS and VistA Systems. These patches are designed to meet the requirements for obtaining the 2011 (formerly Stage 1) EHR certification to support Meaningful Use (MU) demonstration by the VA in CPRS/VistA for the 2014 Edition certification criteria. Ultimately, VistA will include the functionality needed to obtain both 2014 EHR certifications and to support MU demonstration.

The patient's preferred language is captured inside the VistA PIMS modules. The ADT module, Registration, has been modified so that the Preferred Language information can be captured during the patient registration process (Register a Patient [DG REGISTER PATIENT], Load/Edit Patient Data [DG LOAD PATIENT DATA], and Eligibility Verification [DG ELIGIBILITY VERIFICATION]). Additionally, the Patient Inquiry option has been modified to allow both the Registration option [DG PATIENT INQUIRY] and the CPRS GUI link to retrieve and display the preferred language information in a view only format so that the current functionality remains the same. Lastly, a new option, Meaningful Use Language Statistics [DG MEANINGFUL USE LANG STATS], has been added to the ADT Manager Menu [DG MANAGER MENU] that will allow the user to generate a report that displays the number of active patients that have provided a response to the preferred language prompt.

The Scheduling module has been modified to request and capture preferred language using certain Appointment Menu options for making an appointment (Make Appointment [SDM] and Appointment Management > MA option).

Note: **Users should be made aware that processing of Preferred Language must ONLY be entered in VistA using menu options. The use of VA FileMan is discouraged.**

Below is a list of all the applications involved in this project along with their patch numbers:

Application/Version	Patch
Patient Registration (DG) V 5.3	DG*5.3*887
Scheduling (SD) V 5.3	SD*5.3*619

The patches DG*5.3*887 and SD*5.3*619 are being released in the Kernel Installation and Distribution System (KIDS) combined build distribution:
PATIENT_PREFERRED_LANG_V4_0.KID

Pre-requisites

The following are required patches that must be installed before this build:

- DG*5.3*754

- DG*5.3*871

- SD*5.3*441

- DI*22.2*0

The following routines should be backed up on the system:

- DGRPCADD
- DGRPD
- DGRPE
- DGRPV
- VADPT
- VADPT1
- SDM

2. Document Retrieval

Updated documentation describing the new functionality introduced by this build is available.
The documentation will be in the form of Adobe Acrobat files.

The preferred method is to retrieve files from **download.vista.med.va.gov**. Refer to the patch description for all details.

Documentation can also be found on the VA Software Documentation Library at:
http://www4.va.gov/vdl/

File Description	Documentation File Name
MU Preferred Language Patch Description	DG_5_3_887_PD
	SD_5_3_619_PD
MUNVDE Preferred Language Installation Guide	DG_5_3_887_Install_Guide
MUNVDE Preferred Language Release Notes	DG_5_3_887_Rel_Notes
MUNVDE Preferred Language Implementation Guide	DG_5_3_887_Implement_Guide
ADT Module/Registration Menu User Manual	dg_5_3_p887_reg_um.pdf

3. Pre/Post-Installation Overview

Prior to installation, obtain the KIDS build in host file format from one of the designated sites located in the anonymous.software directory. The host file can be retrieved from one of the following OI Field Offices using Secure File Transfer Protocol (SFTP):

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

The host file name for this patch is **PATIENT_PREFERRED_LANG_V4_0.KID** and it contains the following builds:

DG*5.3*887
SD*5.3*619

Use ASCII Mode when downloading the file.

There are NO post-installation routines associated with this build.

4. Pre-Installation Instructions

N/A

5. Installation

This build may be installed with users on the system, but it is recommended that it be installed during non-peak hours to minimize potential disruption to registration or scheduling users. This build should take less than 5 minutes to install.

The installation should be performed by a user with programmer access.

Install the patch first in a training or test account.

The following is an example of the KIDS installation steps for **PATIENT_PREFERRED_LANG_V4_0.KID**

1.   Navigate to the Kernel Installation and Distribution System (KIDS) Menu:
```
Select OPTION NAME: XPD MAIN       Kernel Installation & Distribution
System


        Edits and Distribution ...
        Utilities ...
        Installation ...
```

```
        Patch Monitor Main Menu ...
```

2.   From the Kernel Installation and Distribution System Menu, select **Installation**:
```
Select Kernel Installation & Distribution System Option: Installation
```

```
            1        Load a Distribution
            2        Verify Checksums in Transport Global
            3        Print Transport Global
            4        Compare Transport Global to Current System
            5        Backup a Transport Global
            6        Install Package(s)
                     Restart Install of Package(s)
                          Unload a Distribution
```

3.   From the Installation menu, select **Load a Distribution**:

When prompted to **"Enter a Host File:"** enter the full directory path where you saved the host file **PATIENT_PREFERRED_LANG_V4_0.KID**. (e.g., Download.vista.med.va.gov//**$1%dga23/anonymous/software/ <ins>PATIENT_PREFERRED_LANG_V4_0.KID</ins>**

```
KIDS Distribution saved on May 04, 2016@12:08:26
Comment: Patch DG*5.3*887 & SD*5.3*619


This Distribution contains Transport Globals for the following
Package(s):
Build DG*5.3*887
OK to continue with Load? NO// YES

Build SD*5.3*619
OK to continue with Load? NO// YES
Distribution OK!

Want to Continue with Load? YES//
Loading Distribution...

    DG*5.3*887
    SD*5.3*619
```

Note: Use INSTALL NAME: DG*5.3*887 to install this Distribution.

4.   From the Installation menu, you may elect to use the following options:
      a.   **Verify Checksums in Transport Global** – This option will allow you to ensure the integrity of the routines that are in the transport global.
      b.   **Print Transport Global** – This option will allow you to print a summary report of the Transport Global. This includes an exported routine list, install questions, and required builds.

     c.   **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, data dictionaries (DD's), templates, etc.).

     d.   **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. For the purpose of this Installation Guide, select Verify Checksums in Transport Global:

If there are any discrepancies, do not run the **Install Package(s)** option. Instead, run the **Unload a Distribution** option to remove the Transport Global from your system. Retrieve the file again from the anonymous directory (in case there was corruption in SFTP'ing) and **Load the Distribution** again. If the problem persists, log a Remedy ticket and/or call the National Service Desk (1-855-673-4357) to report the problem.

See the example below:

```
Select Installation Option: 2  Verify Checksums in Transport Glob
al
Select INSTALL NAME: DG*5.3*887       5/10/16@09:01:34
    => Patch DG*5.3*887 & SD*5.3*619  ;Created on May 04, 2016@12:08:26

This Distribution was loaded on May 10, 2016@09:01:34 with header of
   Patch DG*5.3*887 & SD*5.3*619  ;Created on May 04, 2016@12:08:26
   It consisted of the following Install(s):
     DG*5.3*887     SD*5.3*619

Want each Routine Listed with Checksums: Yes//   YES
DEVICE: HOME//   HOME  (CRT)

PACKAGE: DG*5.3*887     May 10, 2016 9:11 am                          PAGE
1
-------------------------------------------------------------------------
-----
```
[Note: Checksums will need to get updated to match V4 as necessary]
```
DGMUSTAT   Calculated    7514407
DGRPCADD   Calculated   18204630
DGRPD      Calculated   69529511
DGRPE      Calculated   71849762
DGRPV      Calculated   19742844
VADPT      Calculated   16811812
VADPT1     Calculated   50294297

   7 Routines checked, 0 failed.

PACKAGE: SD*5.3*619     May 10, 2016 9:11 am                          PAGE
1
-------------------------------------------------------------------------
-----
```

```
SDM      Calculated   35288638

    1 Routine checked, 0 failed.
```

6.   From the Installation menu, select **Install Package(s)**:

```
Select Installation Option: 6  Install Package(s)
Select INSTALL NAME: DG*5.3*887     5/10/16@09:01:34
     => Patches DG*5.3*887 and SD*5.3*619  ;Created on May 04,
2016@12:08:26
```
[**Note:** Date may need to be updated for V 4]

```
This Distribution was loaded on May 10, 2016@09:01:34 with header of
   Patches DG*5.3*887 and SD*5.3*619  ;Created on May 04, 2016@12:08:26
   It consisted of the following Install(s):
    DG*5.3*887     SD*5.3*619
Checking Install for Package DG*5.3*887

Install Questions for DG*5.3*887

Incoming Files:


   2        PATIENT  (Partial Definition)
Note:  You already have the 'PATIENT' File.
```

Answer the questions the same way that they are answered in the example below.

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

Checking Install for Package SD*5.3*619

Install Questions for SD*5.3*619




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// ;;9999  HOME  (CRT)


                              SD*5.3*619
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□
 Install Started for SD*5.3*619 :
            May 10, 2016@09:12:03

Build Distribution Date: Apr 19, 2016
```

```
Installing Routines:
            May 10, 2016@09:12:03

Updating Routine file...

Updating KIDS files...

SD*5.3*619 Installed.
            May 10, 2016@09:12:03


 NO Install Message sent
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
  100%    □          25            50            75
□
Complete
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Install Completed
```

6. Post-Installation Instructions

N/A

7. Technical Guide

N/A

8. Post-Install Routine Summary

This summary of routines should match the transport global listing of routines as there are no Post-install routines or actions required.

9. Back Out/Rollback 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 was created during installing the patch by executing the following steps:

Step 1: Executing the backup message which was created during the installation. By executing this, all existing routines in the build will be restored to their original picture.

Step 2: Delete routine DGMUSTAT.

Step 3: Use the FileMan ENTER OR EDIT FILE ENTRIES option to edit the *Edit the ADT Manager Menu* [DG MANAGER MENU] menu in order to delete the *Meaningful Use Language Statistics* [DG MEANINGFUL USE STATISTICS] option.

Step 4: Delete the [DG MEANINGFUL USE STATISTICS] option from the OPTION file (#19).

Step 5: Delete the LANGUAGE DATE/TIME field (#7) in the PATIENT file (#2).

After completing these steps, the system is back as it was before the preferred language patches were installed.