

**Meaningful Use**  
**New VistA Data Elements**  
**Preferred Language**  
**Installation Guide**



**Patches DG\*5.3\*887**  
**SD\*5.3\*619**

**February 2017**  
**V 1.2**

## Revision History

Date	Version	Description	Author
2/2017	1.2	Revised host file name	REDACTED
8/2016	1.1	Revised per input from Donna Fitch, Release Manager	REDACTED
7/2016	1.0	Section 6, Installation, now contains up-to-date instructions.	REDACTED
7/2016	0.2	Technical edits	REDACTED
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.	REDACTED

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# 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) Electronic Health Record (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 Patient Information Management System (PIMS) modules. The Admissions, Discharges, Transfers (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.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
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
PIMS Technical Manual	PIMSTM

## 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 **REDACTED** directory. The host file can be retrieved from one of the following OI Field Offices using Secure File Transfer Protocol (SFTP):

**REDACTED**

The host file name for this patch is **PATIENT\_PREFERRED\_LANG.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.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.KID** (e.g.,

**/home/anonymous/software/**

**PATIENT\_PREFERRED\_LANG.KID**

KIDS DISTRIBUTION SAVED ON FEB 23, 2017@07:31:37  
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:
- Verify Checksums in Transport Global** – This option will allow you to ensure the integrity of the routines that are in the transport global.
  - 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.
  - 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 FEB 23, 2017@07:31:37

THIS DISTRIBUTION WAS LOADED ON FEB 25, 2017@09:01:34 WITH HEADER OF
PATCH DG*5.3*887 & SD*5.3*619  ;CREATED ON FEB 23, 2017@07:31:37
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      FEB 25, 2017 9:11 AM      PAGE
1
-----
-----

DGMUSTAT  CALCULATED      7514407
DGRPCADD  CALCULATED      18204630
DGRPD     CALCULATED      69529511
DGRPE     CALCULATED      71849762
DGRPV     CALCULATED      19742844
VADPT     CALCULATED      16811812
VADPT0    CALCULATED      13625852
VADPT1    CALCULATED      50294297

    8 ROUTINES CHECKED, 0 FAILED.

PACKAGE: SD*5.3*619      FEB 25, 2017 9:11 AM      PAGE
1
-----
-----
```



SDM            CALCULATED    36241723

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

This Distribution was loaded on Feb 25, 2017@09:01:34 with header of  
Patches DG\*5.3\*887 and SD\*5.3\*619    ;Created on FEB 23, 2017@07:31:37

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//  
RESPOND YES. WHEN PROMPTED TO SELECT THE OPTIONS YOU WOULD LIKE TO  
PLACE OUT OF ORDER, ENTER:

- DG REGISTER PATIENT
- DG LOAD PATIENT DATA
- DG ELIGIBILITY VERIFICATION
- SDM
- SDAM APPT MGT

(THIS WILL PLACE THE LISTED ABOVE OPTIONS OUT OF ORDER DURING THE  
INSTALLATION.)

Enter the Device you want to print the Install messages.



## 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.