



LEXICON UTILITY INSTALLATION GUIDE

Version 2.0
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Department of Veterans Affairs
Software Service
Computerized Patient Record System Product Line

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Preface

The Lexicon Utility provides a basis for a common language of terminology so that all members of a health care team may communicate with each other. As such, the clinician can either use it alone or in conjunction with another *VISTA (Veterans Information System Technology Architecture, the new name for DHCP)* package such as the Problem List, the Text Integration Utility (TIU) or the Automated Information Collection System (AICS).

Scope of the Manual

This manual provides the information necessary for the efficient and safe installation of the Lexicon Utility.

Audience

The intended audience for this publication is VAMC IRM staff.

Related Manuals:

Lexicon Utility Technical Manual/Developer's Guide
Lexicon Utility User Manual

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General Installation Information

1. Namespace (*changed*)

Lexicon Utility V. 2.0: LEX

The package name, namespace, and global roots have been changed in version 2.0.

Package name	Version 1.0 Clinical Lexicon Utility	Version 2.0 Lexicon Utility
Namespace	GMPT	LEX
Data Global	^GMP	^LEX
Utility Global	^GMPT	^LEXT

We changed the namespace because of an accident, which occurred in August of 1995, in which a developer KILLED ^GMP global instead of the desired ^TMP nodes.

TMP and GMP differ by one character (T to G), adjacent to each other on the standard QWERTY keyboard, both controlled by the same hand (left) and both controlled by the same finger (left index). The ^LEX global namespace should prove to be much safer than GMP.

2. Resource Requirements

VISTA's Lexicon Utility is a dynamic dictionary of medical terms mapped to coding schemes such as ICD-9, CPT-4, and DSM-IV. The Lexicon Utility can support other coding schemes that are unique to the VA, such as the codes used by the Social Work Service or US Code Title 38 Chapter 4 for Service Connected Disabilities.

Two globals accompany this package:

- ^LEX Main Lexicon files, contains terminology and lexical information
- ^LEXT Utility and temporary storage file, contains user defaults

Once installed, the Lexicon Utility's global files remain relatively static with the following three exceptions:

- a) Unresolved Narrative file 757.06 will grow over time. However, after the file size grows to 50 records, the entries in this file are packed into a Mailman message and sent to Salt Lake City IRMFO and the records are deleted.
- b) Subset Definition file 757.2 containing user defaults
- c) Shortcuts file 757.4 containing shortcuts to access the Lexicon data

Estimated Disk Space

Global	75	mb
Host File	124	mb



NOTE:

- 1) If your site receives the data via a TCP/IP - FTP transfer, you must reserve an additional 124 mb of disk space to accommodate the host file.
- 2) If your site does not have the capability of electronic file transfer, and must receive the data on a tape cartridge, you may restore the global directly from the tape without requiring additional disk space.

3. Package Components

Globals

Deleted at Site

The installation process does not delete any globals. However, we recommend that after installation you delete the ^GMP and ^GMPT globals.

Sent to Site

^LEX and ^LEXT are new globals for this package and will replace ^GMP and ^GMPT globals (if installed) from the Clinical Lexicon Utility V. 1.0.

The ^LEX is not included in the KIDS installation. You must load the ^LEX data before the installation begins.

The ^LEXT global is included in the KIDS installation.

Data Dictionaries

Deleted at Site

Data dictionaries for the Clinical Lexicon Utility V. 1.0 for ^GMP and GMPT are deleted during the installation. The global is not deleted by the installation.

Sent to Site

All data dictionaries for the Lexicon Utility V. 2.0 for globals ^LEX and LEXT are added to your system during the installation.

Files

Deleted at Site

None.

Sent to Site

Number	Name	Entries	Exported on (H)ost (K)ids	Remarks
757	Major Concept Map	99859	H	
757.001	Concept Usage	99859	H	
757.01	Expressions	133676	H	
757.011	Expression Type	5	H	
757.014	Expression Form	12	H	
757.02	Codes	53130	H	
757.03	Coding Systems	27	H	
757.04	Excluded Words	127	H	
757.05	Replacement Words	199	H	
757.06	Unresolved Narratives	0	H	
757.1	Semantic Map	145581	H	
757.11	Semantic Class	15	H	
757.12	Semantic Type	133	H	
757.2	Subset Definitions	12	K	Stored in ^LEXT global
757.21	Subsets	6271	H	
757.3	Look-up Screens	10	H	
757.31	Displays	9	H	
757.4	Shortcuts	1043	H	
757.41	Shortcut Context	3	H	

Routines

Deleted at Site

Clinical Lexicon Utility V. 1.0

GMPTA1	GMPTA2	GMPTA3	GMPTA4	GMPTA5
GMPTDD1	GMPTDD2	GMPTDD3	GMPTDD4	GMPTDDIS
GMPTDDT1	GMPTDDT2	GMPTDDT3	GMPTDDT4	GMPTDDTD
GMPTDDTF	GMPTDDTV	GMPTDGRP	GMPTDIC1	GMPTDIC2
GMPTDIC3	GMPTDIC4	GMPTDIC5	GMPTDISP	GMPTDLIM
GMPTDMGR	GMPTDOVR	GMPTDTSK	GMPTDUSR	GMPTDVER
GMPTDVOC	GMPTEDF1	GMPTEDF2	GMPTERF	GMPTERI
GMPTHLP	GMPTI *	GMPTLK	GMPTLK2	GMPTNDX1
GMPTNDX2	GMPTNDX3	GMPTNDX4	GMPTNDX5	GMPTNTEG
GMPTOLKN	GMPTPRNT	GMPTSEND	GMPTSET2	GMPTSET3
GMPTSET4				

Sent to Site***Lexicon Utility V. 2.0***

LEXA	LEXA1	LEXA2	LEXA3	LEXA4
LEXAB	LEXABC	LEXAFIL	LEXAL	LEXAL2
LEXALK	LEXAM	LEXAR	LEXAR2	LEXAR3
LEXAR4	LEXAR5	LEXAR6	LEXAR7	LEXAS
LEXAS2	LEXAS3	LEXAS4	LEXAS5	LEXAS6
LEXAS7	LEXASC	LEXASO	LEXCODE	LEXDCC
LEXDCCC	LEXDCCS	LEXDCX	LEXDCXS	LEXDD1
LEXDD2	LEXDD3	LEXDD4	LEXDDS	LEXDDSD
LEXDDSP	LEXDDSS	LEXDDT1	LEXDDT2	LEXDDTC
LEXDDTD	LEXDDTF	LEXDDTV	LEXDFL	LEXDFLC
LEXDFLS	LEXDFLT	LEXDFN	LEXDFN2	LEXDFSB
LEXDFSE	LEXDFSI	LEXDFS0	LEXDFSS	LEXDFST
LEXDM	LEXDM2	LEXDM3	LEXDM4	LEXDMG
LEXDMGO	LEXDMGT	LEXDMGU	LEXDMGV	LEXDSV
LEXDVO	LEXDVOS	LEXEDF1	LEXEDF2	LEXERF
LEXERI	LEXHLP	LEXIENV	LEXILG	LEXILGD
LEXILGO	LEXILGP	LEXILGU	LEXILGX	LEXLGM
LEXLGM2	LEXLGM3	LEXLGM4	LEXLGM5	LEXLK
LEXLK2	LEXMTLU	LEXNDX1	LEXNDX2	LEXNDX3
LEXNDX4	LEXNDX5	LEXNDX6	LEXPL	LEXPLEM
LEXPLIA	LEXPLUP	LEXPRNT	LEXSC	LEXSC2
LEXSC3	LEXSET	LEXSET2	LEXSET3	LEXSET4
LEXSET5	LEXSRC	LEXTOLKN	LEXU	

Problem List V. 2.0

GMPLBLDC	GMPLNFM	GMPLHIST	GMPLUTL1	GMPLX
----------	---------	----------	----------	-------

Clinical Lexicon Utility V. 1.0

GMPTSET	GMPTU
---------	-------



NOTE: These two GMPT* namespaced routines from the previous version remain to support Database Integration Agreements for the Clinical Lexicon Utility version 1.0.

Options***Renamed at Site******Clinical Lexicon Utility V. 1.0***

Option ...	Renamed as ...
Clinical Lexicon Management Menu GMPT CLINICAL LEXICON MGT MENU	Lexicon Management Menu LEX MGT MENU
Edit a term GMPT MGR EDIT TERM	Edit Lexicon LEX MGR EDIT LEXICON
Defaults GMPT MGR DEFAULTS	Defaults LEX MGR DEFAULTS
Clinical Lexicon Utility GMPT CLINICAL LEXICON UTILITY	Lexicon Utility LEX UTILITY
Clinical Lexicon Look-up GMPT CLINICAL LEXICON LOOK-UP	Look-up Term LEX LOOK-UP
Lexicon Look-up Defaults GMPT USER DEFAULTS	User Defaults LEX USER DEFAULTS
Edit User/User Group Defaults GMPT MGR USER DEFAULTS	Edit User/User Group Defaults LEX MGR USER DEFAULTS
List User/User Group Defaults GMPT MGR LIST DEFAULTS	List User/User Group Defaults LEX MGR LIST DEFAULTS
Edit Term Definition GMPT MGR EDIT DEFN	Edit Term Definition LEX MGR EDIT DEFN

Problem List V. 2.0

Option ...	Renamed as ...
Problem Look-up Defaults GMPL USER SCREEN	Problem Look-up Defaults GMPL USER LOOK-UP DEFAULTS

Renaming existing options to reflect the new option menu tree guarantees option menu assignments made in version 1.0 are retained in version 2.0.

Sent to Site

Lexicon Utility V. 2.0

Option Name	Option Menu Text	Option Type
LEX MGT MENU	Lexicon Management Menu	Menu (managers)
LEX MGR DEFAULTS	Defaults	Menu
LEX MGR USER DEFAULTS	Edit User/User Group Defaults	LEXDMG
LEX MGR LIST DEFAULTS	List User/User Group Defaults	LEXDD1
LEX MGR EDIT LEXICON	Edit Lexicon	Menu
LEX MGR EDIT DEFN	Edit Term Definition	LEXEDF1
LEX MGR EDIT SHORTCUTS	Edit Shortcuts by Context	LEXSC
LEX UTILITY	Lexicon Utility	Menu (users)
LEX LOOK-UP	Look-up Term	LEXLK (demo)
LEX USER DEFAULTS	User Defaults	Menu
LEX USER FILTER	Filter	EN^LEXDFL
LEX USER DISPLAY	Display	EN^LEXDCC
LEX USER VOCABULARY	Vocabulary	EN^LEXDVO
LEX USER SHORTCUTS	Shortcuts	EN^LEXDCX
LEX USER DEFAULT LIST	List Defaults	EN^LEXDDS

Problem List V. 2.0

Option Name	Option Menu Text	Option Type
GMPL USER LOOK-UP DEFAULTS	Problem Look-up Defaults	Menu
GMPL USER LOOK-UP FILTER	Filter	EN1^LEXDFL
GMPL USER LOOK-UP DISPLAY	Display	EN1^LEXDCC
GMPL USER LOOK-UP VOCABULARY	Vocabulary	EN1^LEXDVO
GMPL USER LOOK-UP SHORTCUTS	Shortcuts	EN1^LEXDCX
GMPL USER LOOK-UP LIST	List Current Defaults	EN^LEXDDS

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Pre-Installation

1. Required and Recommended Software and Files

Required Packages

Packages that the Lexicon Utility either points to or makes direct calls to supported the following entry points:

- Kernel 8.0
- VA Fileman 21
- Kernel Toolkit 7.3

Recommended Packages

Packages which either point to the Lexicon or make direct calls to supported Lexicon Utility entry points:

- Automated Information Collection System (AICS) 2.1
- Problem List 2.0
- PCE Patient/IHS Subset 1.0
- Text Integration Utility 1.0 (when released)

Required Files

Files that the Lexicon Utility makes direct global reads to supported fields:

Global Root	File Number	File Name
^ICD9	80	ICD Diagnosis
^ICD0	81	ICD Procedures
^ICPT	80.1	CPT
^YSD(627.7)	627.7	DSM
^VA(200)	200	New Person

The Lexicon Utility reads and writes to this file on supported fields.

Global Root	File Number	File Name
^AUPNPROB	9000011	Problem

2. Environment

General

All Sites

Back up your system before you install Lexicon Utility V. 2.0.

There should be no “clinical” users on the system during install.

Verify that DUZ, DUZ(“AG”), DT,DTIME, and U are defined and DUZ(0)=”@”.

DSM Sites

Log into the UCI where the Lexicon Utility is to be installed.

MSM Sites

Make sure that journaling is on.

The Stack/Stap should be increased to at least 20k during installation and operation. We recommend a partition size of 48k during installation and operation.

Disable Options

To protect the environment during install, place the following Options “OUT OF ORDER”:

GMPL BUILD SELECTION LIST
GMPL CLINICAL USER
GMPL PROBLEM LISTING
GMPL USER SCREEN



NOTE: From the time Clinical Lexicon Utility V. 1.0's Data Dictionaries are deleted until the time Lexicon Utility V. 2.0's Data Dictionaries are installed, the Problem List application (and other applications calling the Lexicon) are unable to locate the Special Lookup and Fileman cannot recognize the new global.

Initialize New Globals

MSM Sites

Set the new globals to null on the file server:

```
S ^LEX=""
S ^LEXT=""
```

Using the ^%GCH (Global Characteristics) utility, make sure the protection for both ^LEX and ^LEXT are set as follows:

System	RWD
World	RWD
Group	RWD
User	RWD

DSM Sites

Set the new globals to null in the UCI where the main Lexicon files will reside:

```
S ^LEX=""
S ^LEXT=""
```

Using the ^%GLOMAN (Global Management) utility, make sure the protection for both ^LEX and ^LEXT are set as follows:

System	RWP
World	RWP
Group	RWP
User	RWP

Translation

We recommend the Lexicon global ^LEX be installed in one UCI and translated to all other UCIs where the Lexicon Utility is installed. This will save on disk space and reduce future maintenance and file update times.

3. Special Considerations

Pre-Installation Routine

The Pre-Install routine **deletes** the data dictionaries for the Clinical Lexicon Utility V. 1.0. Any abort which occurs after the Pre-Install routine has run requires either a full re-install of Clinical Lexicon Utility V. 1.0 (to restore version 1) or a full install of the Lexicon Utility V. 2.0 (to continue to install version 2).

Post-Installation Routine

The Post-Install routine **updates** the Problem List Problem file #9000011 where possible. Once you do this, it is not possible to un-install Lexicon Utility version 2.0 and re-install the Clinical Lexicon Utility V. 1.0.

Installation

1. Data

The data global ^LEX is exported as a host file and is obtained via:

- 1) File Transfer, TCP/IP, FTP or from network shared resources.
- 2) Tape Cassette, when electronic file transfer capability does not exist.

The ^LEX global has been placed in a host file using the ^%GTO (Global Transfer Output) utility. This file is readable by both DSM and MSM sites.

The ^LEX global is exported with all of the indexes intact. This is done to save global load time at the sites.

Global Load Times *	Load Global	Re-Indexing
Export with Indexes Intact	45 minutes - 1 hour 15 minutes	0
Export without Indexes	20 minutes - 45 minutes	12+ hours
* Times vary depending on the activity on the system.		

Exporting the global with the indexes intact necessitates KILLing any previous version (Alpha or Beta test version) of the ^LEX global on your system.

All Sites

Sign into the system where you plan to install the Lexicon Utility data global ^LEX (this will probably be the same account where the Clinical Lexicon Utility V. 1.0 ^GMP global is located).



NOTE: If the ^LEX global exists on your system (i.e., as a prior alpha or beta test version), KILL the ^LEX global before continuing.

MSM Site



NOTE: Device names and path names may vary from site to site.

Load from Host File:

If your site received the ^LEX data global via TCP/IP, FTP, or a network shared directory, load the global using the ^%GR (Global Restore) utility as follows:

```
>D ^%GR
MSM - Global Restore Utility

Enter input device <HFS>: <Enter>
File name>: LEX_2_0.GBL

Global(s) saved at HH:MM:SS on DD-MMM-YY
Header comment is: Lexicon Utility v 2.0
Selective restore (allows rename) <N>: NO
Global: ^LEX
Restore complete
```

Load from Tape:

If your site received the ^LEX data global on 4mm tape, then load the global using the ^%GR (Global Restore) utility as follows:

```
>D ^%GR
MSM - Global Restore Utility

Enter input device <HFS>: 47
Select tape mode <ASU>: ASU
Enter block size <1024>: 2048

Global(s) saved at HH:MM:SS on DD-MMM-YY
Header comment is: Lexicon Utility v 2.0
Selective restore (allows rename) <N>: NO
Global: ^LEX
Restore complete
```

DSM Site



NOTE: Device names and path names may vary from site to site.

Load from Host File:

If your site received the ^LEX data global via TCP/IP - FTP, then load the global using the ^%GTI (Global Transfer Input) utility as follows:

```
>D ^%GTI

This routine restores globals saved with ^%GTO

Input Device ? >   DEVICE:[DIRECTORY]LEX_2_0.GBL

Globals were saved on DD-MMM-YY
Header: Lexicon Utility v 2.0
Restore all (A) or selected (S) ? <A>   <Enter>
^LEX starting at HH:MM:SS
Finished at HH:MM:SS
```


2. Package

Verify that DUZ, DUZ("AG"), DT,DTIME, and U are defined and DUZ(0)="@".

Load a Distribution

Do ^XUP and select the "Kernel Installation & Distribution System" option, then select "Installation" menu.

```
>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT100  <Enter>

Select OPTION NAME: Kernel Installation & Distribution  XPD MAIN
                    Kernel Installation & Distribution System

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

Select Kernel Installation & Distribution System Option: Installation

                        Load a Distribution
                        Print Transport Global
                        Compare Transport Global to Current System
                        Verify Checksums in Transport Global
                        Install Package(s)
                        Restart Install of Package(s)
                        Unload a Distribution
                        Backup a Transport Global

Select Installation Option: Load a Distribution

Enter a Host File: LEX_2_0.KID

KIDS Distribution saved on MMM DD, YYYY@HH:MM:SS
Comment: Lexicon Utility v 2.0

This Distribution contains Transport Globals for the following
Package(s):
    LEXICON UTILITY 2.0
    GMPL*2.0*7

Want to Continue with Load? YES//  <Enter> YES
Loading Distribution...

Want to RUN the Environment Check Routine? YES//  <Enter>
Will first run the Environment Check Routine, LEXIENV

Update          Clinical Lexicon Utility v 1.0          Problem List v 2.0
To              Lexicon Utility v 2.0                    Problem List v 2.0*7

Use LEXICON UTILITY 2.0 to install this Distribution.
```

Verify Checksums in Transport Global

From the "Installation" menu, select "Verify Checksums in Transport Global" to verify that all routines have the correct checksums.

```

Select OPTION NAME: XPD MAIN
Kernel Installation & Distribution System

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

Select Kernel Installation & Distribution System Option: Installation

    Load a Distribution
    Print Transport Global
    Compare Transport Global to Current System
    Verify Checksums in Transport Global
    Install Package(s)
    Restart Install of Package(s)
    Unload a Distribution
    Backup a Transport Global

Select Installation Option: Verify Checksums in Transport Global
Select INSTALL NAME: LEXICON UTILITY 2.0
    Loaded from Distribution MM/DD/YY@HH:MM:SS
    => LEXICON UTILITY V 2.0 ;Created on MMM DD, YYYY@HH:MM:SS
DEVICE: HOME// <Enter> VAX

PACKAGE: LEXICON UTILITY 2.0      MMM DD, YYYY HH:MM      PAGE 1
-----
119 Routine checked, 0 failed.

```

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 and call your IRM Field Office and report the problem.

Install Package(s)

While installing the package, you are asked if you want to disable options. Please disable the following Problem List options:

```

GMPL BUILD SELECTION LIST
GMPL CLINICAL USER
GMPL PROBLEM LISTING
GMPL USER SCREEN

```

From the "Installation" menu, select "Install Package(s)" and proceed with the install.

If the Installation aborts, run the "Unload a Distribution" option to remove the "LEXICON UTILITY 2.0" transport global from your system. Call your IRM Field Office and report the problem.

```
Select OPTION NAME: XPD MAIN
  Kernel Installation & Distribution System

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

Select Kernel Installation & Distribution System Option: Installation

Load a Distribution
Print Transport Global
Compare Transport Global to Current System
Verify Checksums in Transport Global
Install Package(s)
Restart Install of Package(s)
Unload a Distribution
Backup a Transport Global

Select Installation Option: Install Package(s)
Select INSTALL NAME: LEXICON UTILITY 2.0
```

Installation Capture Example

The following example installation of the Lexicon Utility V. 2.0 was conducted on a DSM system into an account where the Clinical Lexicon Utility V. 1.0 existed. Within the example, MSM specific prompts and responses are added and marked as "MSM only."

Symbolic representations, such as MM/DD/YY@HH:MM:SS, are substituted for actual times in the listing below.

Device ;C-OTHER is used to facilitate the capture.

```

>ZW DUZ
DUZ=1216
DUZ(0)=@
DUZ(1)=
DUZ(2)=660
DUZ("AG")=V
DUZ("BUF")=1
DUZ("LANG")=

>ZW DTIME
DTIME=300

>ZW U
U=^

>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT220

Select OPTION NAME: XPD MAIN           Kernel Installation &
Distribution System

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

Select Kernel Installation & Distribution System Option: Installation

        Load a Distribution
        Print Transport Global
        Compare Transport Global to Current System
        Verify Checksums in Transport Global
        Install Package(s)
        Restart Install of Package(s)
        Unload a Distribution

Select Installation Option: Install Package(s)
Select INSTALL NAME: LEXICON UTILITY 2.0
        Loaded from Distribution MM/DD/YY@HH:MM:SS
        => Lexicon Utility v 2.0 ;Created on MMM DD, YYYY@HH:MM:SS

This Distribution was loaded on MMM DD, YYYY@HH:MM:SS with header of

```

```

Lexicon Utility v 2.0 ;Created on MMM DD, YYYY@HH:MM:SS
It consisted of the following Install(s):
  LEXICON UTILITY 2.0
  GPL*2.0*7

Will first run the Environment Check Routine, LEXIENV

Install Questions for LEXICON UTILITY 2.0

  757      MAJOR CONCEPT MAP
Note: You already have the 'MAJOR CONCEPT MAP' File.

  757.001  CONCEPT USAGE

  757.01   EXPRESSIONS
Note: You already have the 'EXPRESSIONS' File.

  757.011  EXPRESSION TYPE

  757.014  EXPRESSION FORM
Note: You already have the 'EXPRESSION FORM' File.

  757.02   CODES
Note: You already have the 'CODES' File.

  757.03   CODING SYSTEMS
Note: You already have the 'CODING SYSTEMS' File.

  757.04   EXCLUDED WORDS
Note: You already have the 'EXCLUDED WORDS' File.

  757.05   REPLACEMENT WORDS
Note: You already have the 'REPLACEMENT WORDS' File.

  757.06   UNRESOLVED NARRATIVES
Note: You already have the 'UNRESOLVED NARRATIVES' File.

  757.1    SEMANTIC MAP
Note: You already have the 'SEMANTIC MAP' File.

  757.11   SEMANTIC CLASSES
Note: You already have the 'SEMANTIC CLASSES' File.

  757.12   SEMANTIC TYPES
Note: You already have the 'SEMANTIC TYPES' File.

  757.2    SUBSET DEFINITIONS (including data)
Note: You already have the 'SUBSET DEFINITIONS' File.
I will OVERWRITE your data with mine.

  757.21   SUBSETS
Note: You already have the 'SUBSETS' File.

  757.3    LOOK-UP SCREENS
Note: You already have the 'LOOK-UP SCREENS' File.

  757.31   DISPLAYS

  757.4    SHORTCUTS

```

```

757.41   SHORTCUT CONTEXT

Install Questions for GMPL*2.0*7

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES//
                                                <Enter>

MSM Only

Want to MOVE routines to other CPUs?  NO// YES

Enter options you wish to mark as 'Out Of Order':  GMPL BUILD
                                                    SELECTION LIST
Build Problem Selection List(s)

Enter options you wish to mark as 'Out Of Order':  GMPL CLINICAL USER
Patient Problem List

Enter options you wish to mark as 'Out Of Order':  GMPL PROBLEM
                                                    LISTING
Search for Patients having selected Problem

Enter options you wish to mark as 'Out Of Order':  GMPL USER SCREEN
Problem Look-up Defaults

Enter options you wish to mark as 'Out Of Order':  <Enter>

Enter protocols you wish to mark as 'Out Of Order':  <Enter>

Delay Install (Minutes):  (0-60): 0//  <Enter>

MSM Only - For all volume sets on your system which will use the
Lexicon Utility

Please enter VOLUME SET you want me to update.

Select VOLUME SET:  PSB
Are you adding 'PSB' as a new VOLUME SET (the 1ST for this
INSTALL)?  Y (YES)

Select VOLUME SET:  CSA
Are you adding 'PSB' as a new VOLUME SET (the 1ST for this
INSTALL)?  Y (YES)

etc.

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// ;C-OTHER  VAX

Install Started for LEXICON UTILITY 2.0 :
MMM DD, YYYY@HH:MM:SS

```

```

Installing
Routines:.....
                MMM DD, YYYY@HH:MM:SS

Running Pre-Install Routine: PRE^LEXILG.

Saving Lexicon v 1.0 User Defaults

Removing Lexicon v 1.0 from the Multi-Term Look-up Utility (MTLU)

Saving Lexicon v 1.0 Pointers

Renaming Lexicon v 1.0 Options

Old Name                                New Name

GMPT CLINICAL LEXICON MGT MENU          LEX MGT MENU
Clinical Lexicon Management Menu        Lexicon Management Menu

GMPT MGR EDIT TERM                      LEX MGR EDIT LEXICON
Edit a term                             Edit Lexicon

GMPT MGR DEFAULTS                       LEX MGR DEFAULTS
Defaults                                Defaults

GMPT CLINICAL LEXICON UTILITY           LEX UTILITY
Clinical Lexicon Utility                Lexicon Utility

GMPT CLINICAL LEXICON LOOK-UP           LEX LOOK-UP
Clinical Lexicon Look-up                Look-up Term

GMPT USER DEFAULTS                     LEX USER DEFAULTS
Lexicon Look-up Defaults                 User Defaults

GMPT MGR USER DEFAULTS                  LEX MGR USER DEFAULTS
Edit User/User Group Defaults           Edit User/User Group
Defaults

GMPT MGR LIST DEFAULTS                  LEX MGR LIST DEFAULTS
List User/User Group Defaults           List User/User Group
Defaults

GMPT MGR EDIT DEFN                      LEX MGR EDIT DEFN
Edit Term Definition                    Edit Term Definition

GMPL USER SCREEN                        GMPL USER LOOK-UP DEFAULTS
Problem Look-up Defaults                 Problem Look-up Defaults

Deleting Lexicon v 1.0 Data Dictionaries

This might take quite a while, I've got 15 Data Dictionaries to
Delete.

^GMP(757) DD Deleted
^GMP(757.01) DD Deleted
^GMP(757.014) DD Deleted
^GMP(757.02) DD Deleted
^GMP(757.03) DD Deleted

```

```
^GMP(757.04) DD Deleted
^GMP(757.041) DD Deleted
^GMP(757.05) DD Deleted
^GMP(757.06) DD Deleted
^GMP(757.1) DD Deleted
^GMP(757.11) DD Deleted
^GMP(757.12) DD Deleted
^GMPT(757.2) DD Deleted
^GMP(757.21) DD Deleted
^GMP(757.3) DD Deleted

Installing Data Dictionaries: .....
      MMM DD, YYYY@HH:MM:SS

Installing Data:
      MMM DD, YYYY@HH:MM:SS
Installing PACKAGE COMPONENTS:

Installing OPTION.....
      MMM DD, YYYY@HH:MM:SS

Running Post-Install Routine: POST^LEXILG.

Restoring Lexicon User Defaults for use with Lexicon v 2.0

Repointing Files/Fields for use with Lexicon v 2.0

      PROBLEM SELECTION CATEGORY CONTENTS
      SELECTION
      IMP/EXP SELECTION
      V POV
      PROBLEM
      PROVIDER NARRATIVE

Checking for GMPT Package file entry (not used in Lexicon v 2.0)

      GMPT Package File entry was found

      The GMPT namespace was used by the Clinical Lexicon
      Utility version 1.0.  The GMPT Package File entry may
      be deleted.

Checking for ^GMP or ^GMPT (not used in Lexicon v 2.0)

      ^GMP Global Found
      ^GMPT Global Found

      Don't forget to delete the ^GMP and ^GMPT globals
      used by the Clinical Lexicon Utility, version 1.0

      Press <Return> to continue      <Enter>

Updating Routine file.....

Updating KIDS files.....

LEXICON UTILITY 2.0 Installed.
      MMM DD, YYYY@HH:MM:SS
```

```
Install Message sent #NNNNN

Install Started for GMPL*2.0*7 :
      MMM DD, YYYY@HH:MM:SS

Installing Routines:.....
      MMM DD, YYYY@HH:MM:SS

Updating Routine file.....

Updating KIDS files.....

GMPL*2.0*7 Installed.
      MMM DD, YYYY@HH:MM:SS

Install Message sent #NNNNN
```

Build File Contents

Use the KIDS Build File Print option if you would like a complete listing of package components (e.g., routines, options and globals) exported with this software.

```

Select OPTION NAME: XPD MAIN
  Kernel Installation & Distribution System

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

Select Kernel Installation & Distribution System Option: Utilities

  Build File Print
  Install File Print
  Convert Loaded Package for Redistribution
  Purge Build or Install Files
  Update Routine File
  Verify a Build
  Verify Package Integrity

Select Utilities Option: Build File Print
Select BUILD NAME: LEXICON UTILITY 2.0          LEXICON UTILITY
DEVICE: HOME// <Enter>
.....

```

Install File Contents

Use the KIDS Install File Print option to print out the results of the installation process.

```

Select OPTION NAME: XPD MAIN
  Kernel Installation & Distribution System

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

Select Kernel Installation & Distribution System Option: Utilities

  Build File Print
  Install File Print
  Convert Loaded Package for Redistribution
  Purge Build or Install Files
  Update Routine File
  Verify a Build
  Verify Package Integrity

Select Utilities Option: Install File Print
Select INSTALL NAME: LEXICON UTILITY 2.0
  Install Completed MM/DD/YY@HH:MM:SS
=> LEXICON UTILITY V 2.0 ; Created on MMM DD, YYYY@HH:MM:SS
DEVICE: HOME// <Enter>
.....

```

Post-Installation

1. Package Installation Message

The Kernel Installation and Distribution System generates a package installation message. This message reports the installation of the Lexicon Utility V. 2.0 on FORUM.

Example of Lexicon Utility Package Installation message:

```
Subj: LEXICON UTILITY 2.0 INSTALLATION [#NNNNNN] DD MMM YY HH:MM ST
From: <POSTMASTER@VAMCSITE.VA.GOV> Page 1
-----
PACKAGE INSTALL
SITE: VAMCSITE.VA.GOV
PACKAGE: LEXICON UTILITY
VERSION: 2.0
Start time: MMM DD, YYYY@HH:MM:SS
Completion time: MMM DD, YYYY@HH:MM:SS
Run time: H:MM:SS
DATE: 2YYMMDD
Installed by: PROGRAMMER,IRMA
```

2. Post-Installation Routine Messages

The Post-Installation routine generates two (2) post-install messages.

a) Lexicon Installation Message

This message reports the results of the installation of the Lexicon Utility V. 2.0 to the Salt Lake City IRM Field Office. The purpose is to check for unusual events in the installation sequence.

Example of Lexicon Utility Installation message:

```
Subj: Lexicon Installation [#NNNNNN] DD MMM YY HH:MM ST
From: <POSTMASTER@VAMCSITE.VA.GOV> Page 1
-----
Lexicon Installation v2.0

Installing Version:      2.0
Installed on:           MMM DD, YYYY at HH:MM:SS
Installation in account: VAH,ROU (Production)

^GMP and ^GMPT not Deleted      New Globals are Installed
User Defaults Transferred       Lexicon removed from MTLU
Old Options were Deleted        New Options are Installed
Special Lookup is LEXA1         Problem List calls ^LEX

Lexicon v 2.0 installed
```

b) Problem List Survey Message

This message reports the results of the Problem List update initiated by the Lexicon Utility V. 2.0 in the Post-Installation routine. It will report the contents of the Problem List Problem file and any updates which occur as a result of the installation of the Lexicon Utility V. 2.0.

Example of Problem List Survey message:

```

Subj: Lexicon/Problem List Survey  [#NNNNNN] DD MMM YY HH:MM ST
From: <POSTMASTER@VAMCSITE.VA.GOV>  Page 1
-----
Problem List Survey

UCI:    VAH,ROU (Production)
ON:     MMM DD, YYYY at HH:MM am

                Uncoded      Inactive      Active
                ICD Code     ICD Code     Total
Unresolved Narratives      45           0           10           55
Lexicon Terms              56           8          333          397
-----
Total Problems             101           8          343          452

22 Exact match unresolved narratives resolved to the Lexicon
16 Inactive ICD codes/6 digit codes re-coded to an active ICD Code
38 Uncoded Lexicon terms re-coded to an ICD code other than 799.9
    
```

3. Post Installation Instructions

Options

Reactivate the options that you placed “OUT OF ORDER.” These options include:

- GMPL BUILD SELECTION LIST
- GMPL CLINICAL USER
- GMPL PROBLEM LISTING
- GMPL USER LOOK-UP DEFAULTS



NOTE: GMPL USER LOOK-UP DEFAULTS was renamed from GMPL USER SCREEN.

Purge Routines

(Optional) Remove the Environment Check, Pre-Installation routine and Post-Installation routine with the LEXI* namespace.

Translation

Review the translation tables to make sure that the Lexicon Utility data global (^LEX) is appropriately translated.

Globals

After the Lexicon Utility V. 2.0 is installed in all UCIs where the Clinical Lexicon Utility V. 1.0 was installed, it is safe to delete the ^GMP and ^GMPT globals. This will free up approximately 45 mb.

Environment

Restore the environment. If you expanded your symbol table, buffer size, or partition size prior to installation, reduce the environment parameters to their original values.

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Appendix: Release Notes

Changes since version 1.0:

Terminology

Added

The Common Procedural Terminology (CPT-4) and the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV) have been added to the Lexicon Utility.

Namespace LEX

Changed

The namespace was changed from GMPT to LEX. All routines and package variables have been renamed from GMPT* to LEX* to conform to the new namespace.

Global Root ^LEX

Changed

The global roots have been changed from ^GMP and ^GMPT to ^LEX and ^LEXT respectively. This was done to prevent inadvertent deletion of Lexicon data.

The difference between typing ^TMP and ^GMP is one character on a standard QWERTY keyboard, both controlled by the same finger and located approximately a quarter of an inch from each other.

Concept Usage file 757.001

Added

The Concept Usage file records the usage of Lexicon by applications performing lookups using the Special Lookup Routines. This Concept Usage is later used to determine the order of the selection list during lookup. The more frequently used terms "float" to the top of the list.

Expression Type file 757.011

Added

The Expression Type field (757.01) has been changed from a set of codes to a pointer to the new file Expression Type, #757.011.

Shortcut Functionality

Added

The Shortcuts File 757.4 and the Shortcuts Context file 757.41 were added to support shortcuts by context.

Shortcut User Default

Added

Context-sensitive shortcuts have been added as a user default. For example, the user may have one set of shortcuts for searching in the Problem List application and another set defined for another application.

Excluded String File

Deleted

Excluded String File #757.041 was deleted. This file was required to run the Lexicon Special Lookup Routine under the Multi-Term Lookup Utility (MTLU) v 1.0 running on the VAX. With the upgrade of the MTLU and conversion of VAX to Alpha, this file no longer serves a purpose.

Silent Lookup

Added

A Silent Lookup was added in support of GUI applications. The Lexicon Special Lookup Routine has been modified to call the Silent Lookup so that the behavior of the "loud" lookup would be identical to the "silent" lookup. This lookup also includes:

- 1) Reordering the selection list with the most frequently used at the top.
- 2) Placing the exact match at the top of the selection list.

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