

LEXICON UTILITY INSTALLATION GUIDE

Version 2.0

September 1996

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 V*IST*A **(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

Preface

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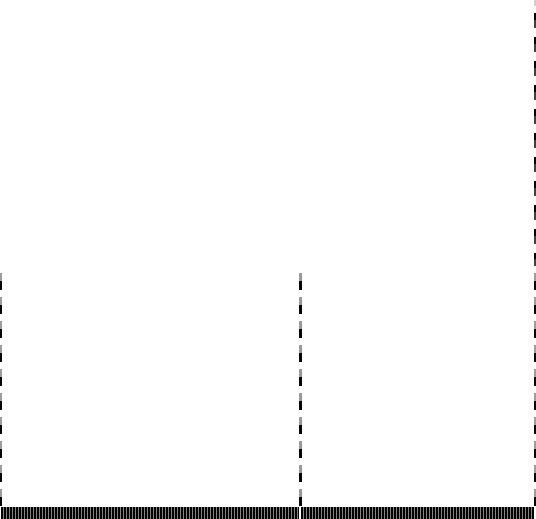
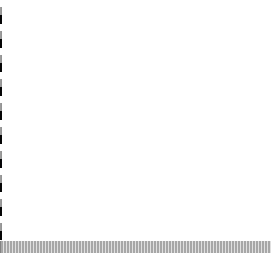
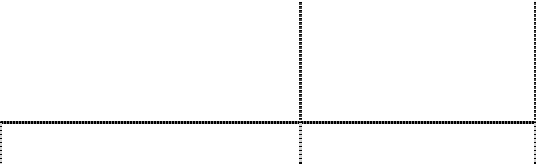
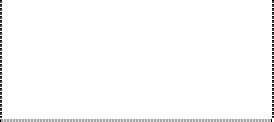
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# General Installation Information

* 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.

## Resource Requirements

V*IST*A’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:

* + 1. 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.
    2. Subset Definition file 757.2 containing user defaults
    3. 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.

## 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

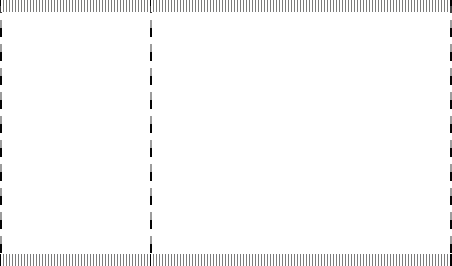
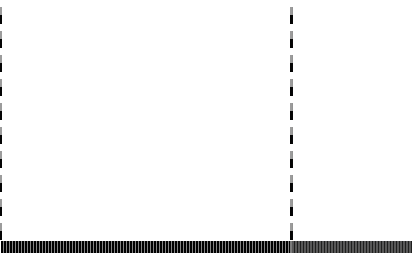
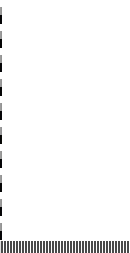
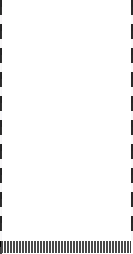
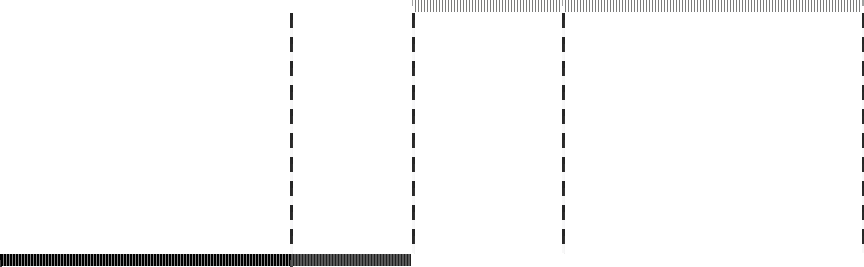
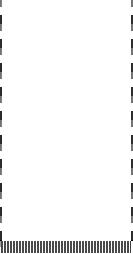
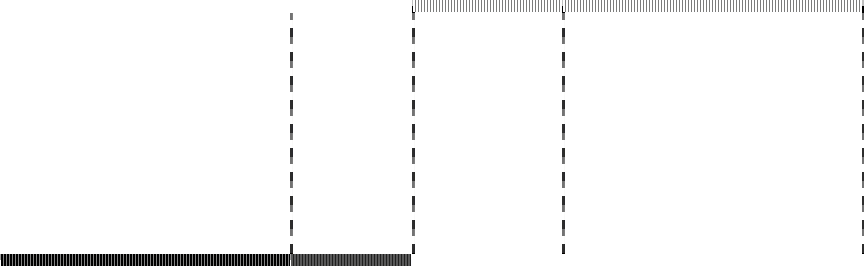
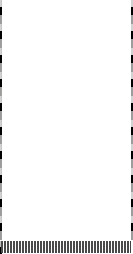
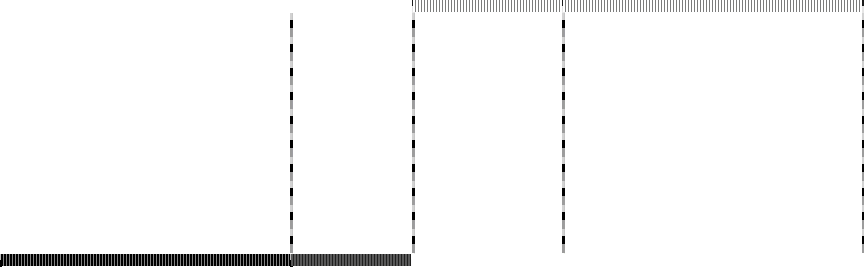
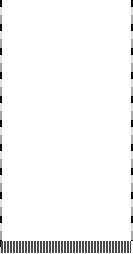
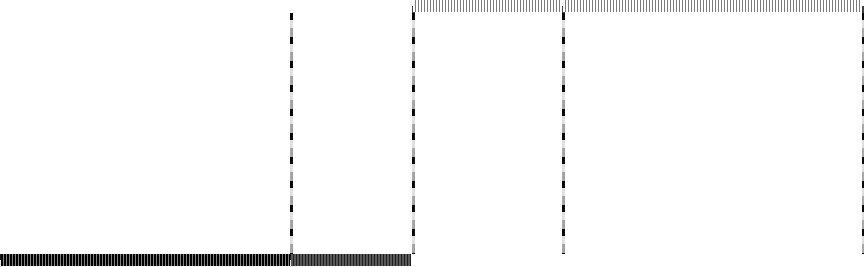
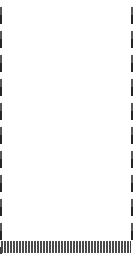
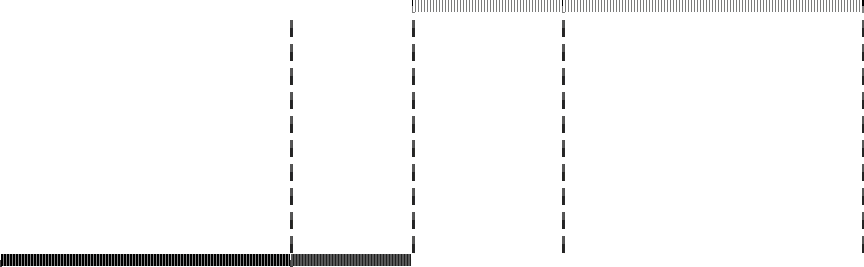
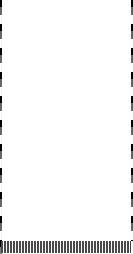
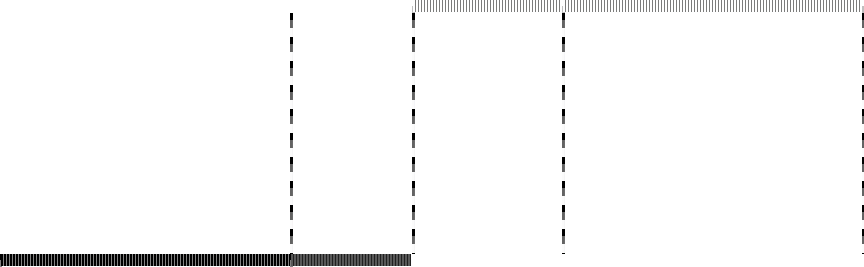
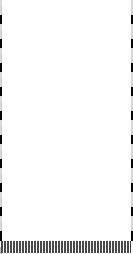
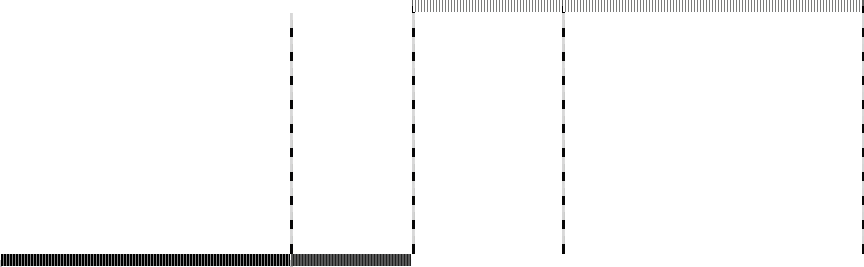
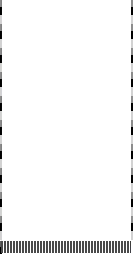
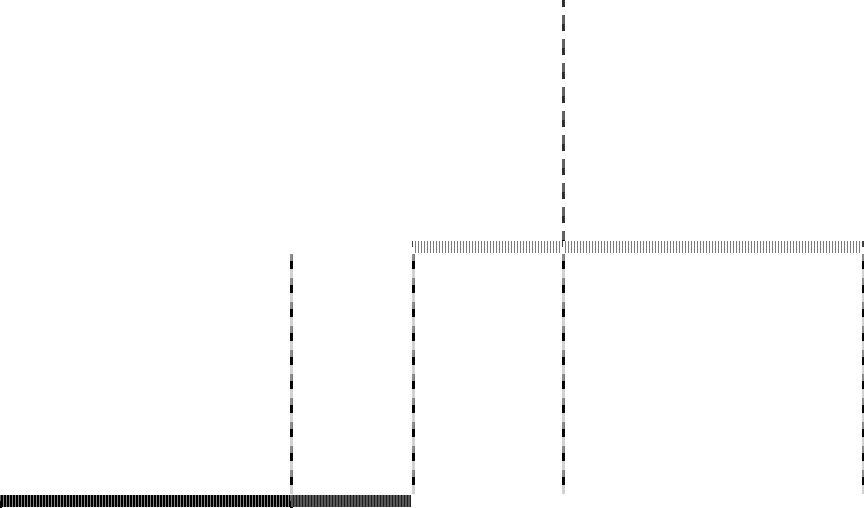
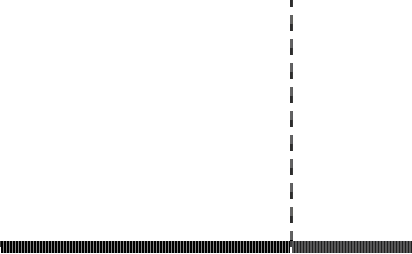
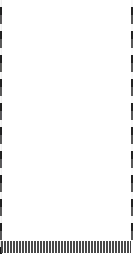
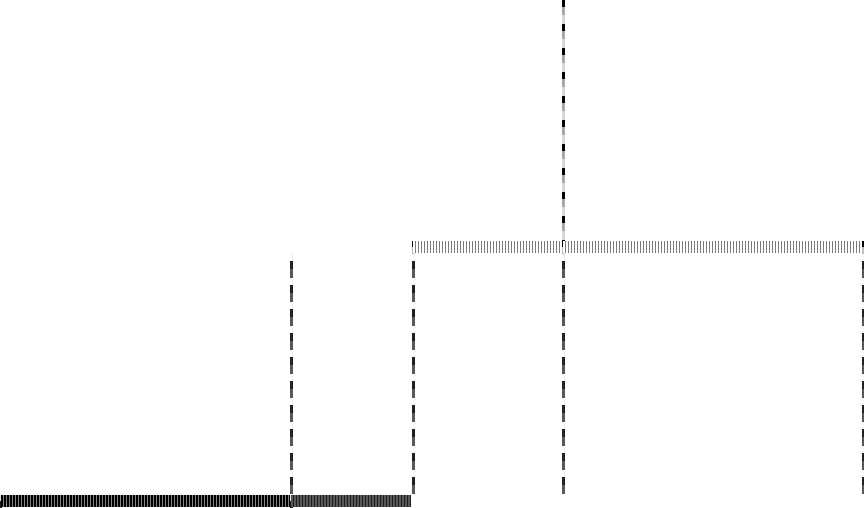
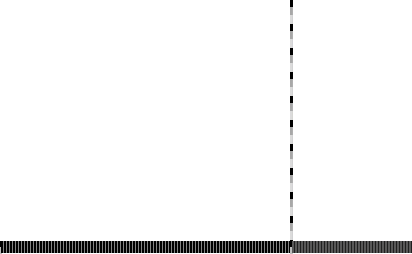
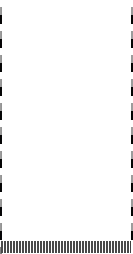
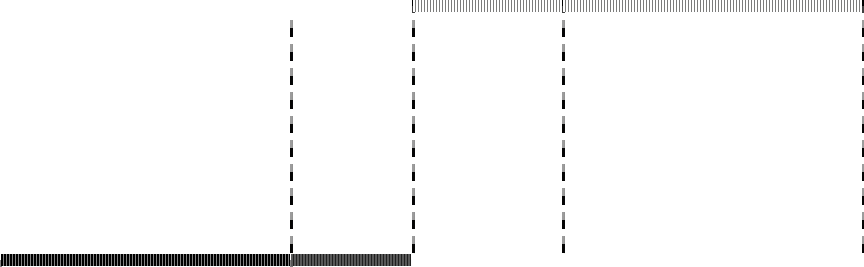
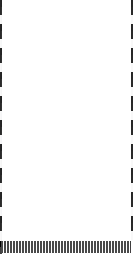
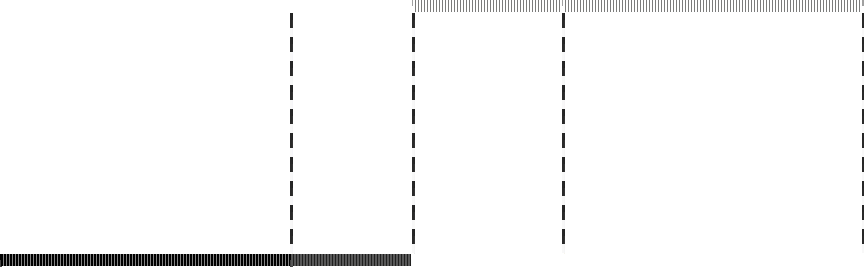
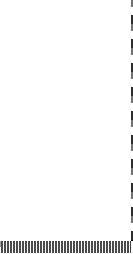
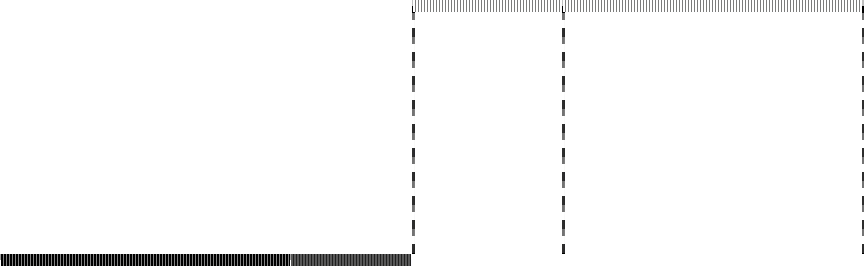
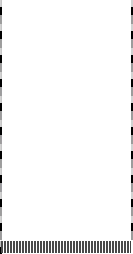
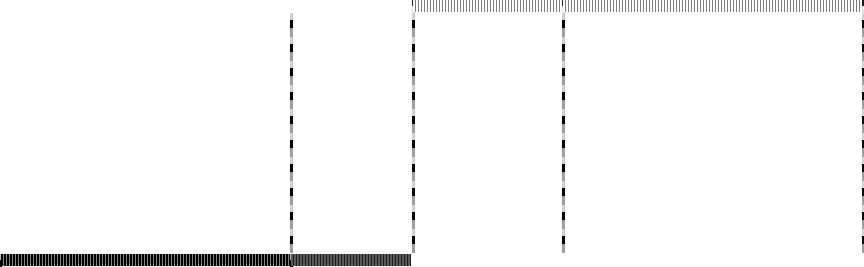
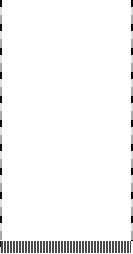
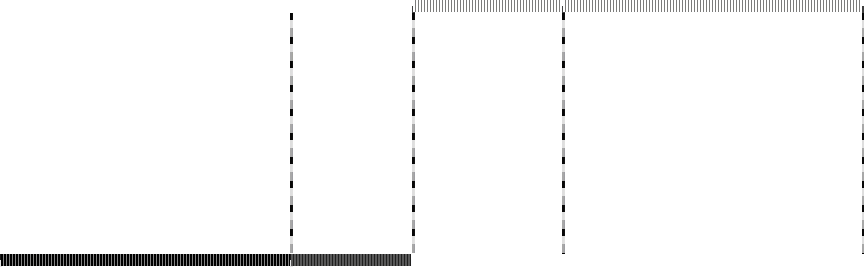
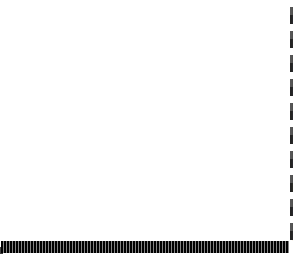
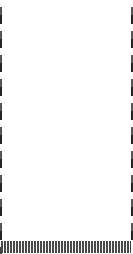
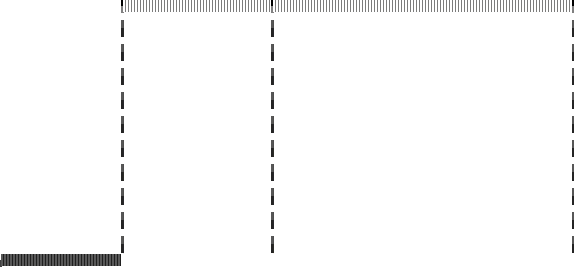
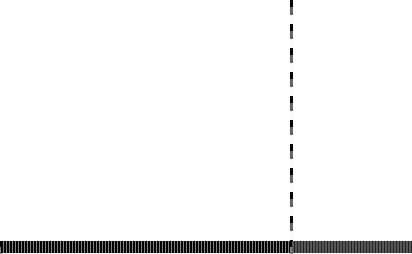
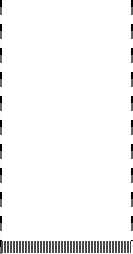
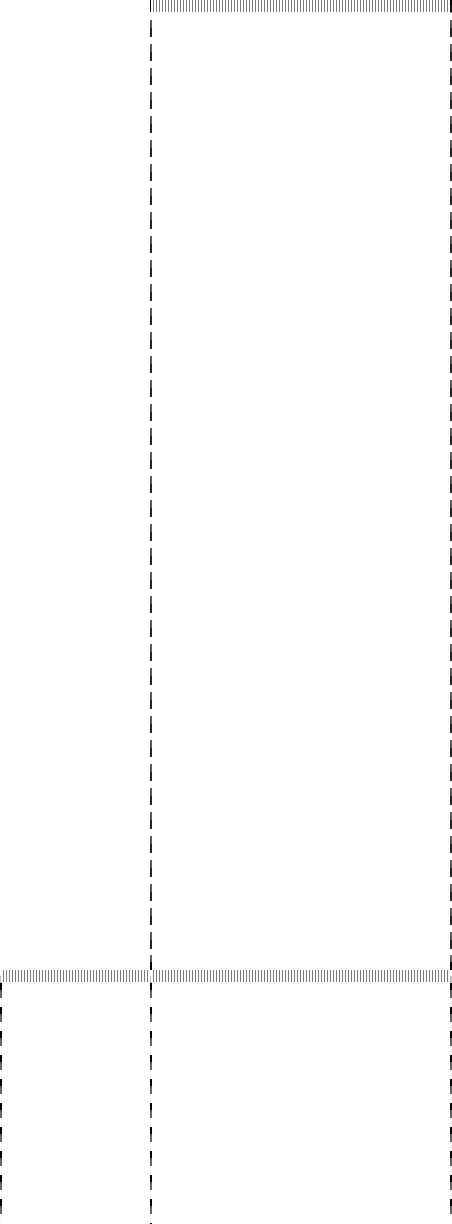
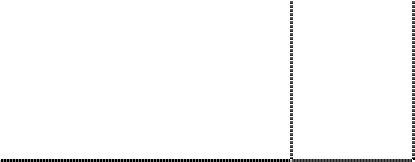
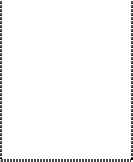
All data dictionaries for the Lexicon Utility V. 2.0 for globals ^LEX and LEXT are added to your system during the installation.

#### 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 | LEXDFSO | 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 | GMPLENFM | GMPLHIST | GMPLUTL1 | GMPLX |

***Clinical Lexicon Utility V. 1.0***

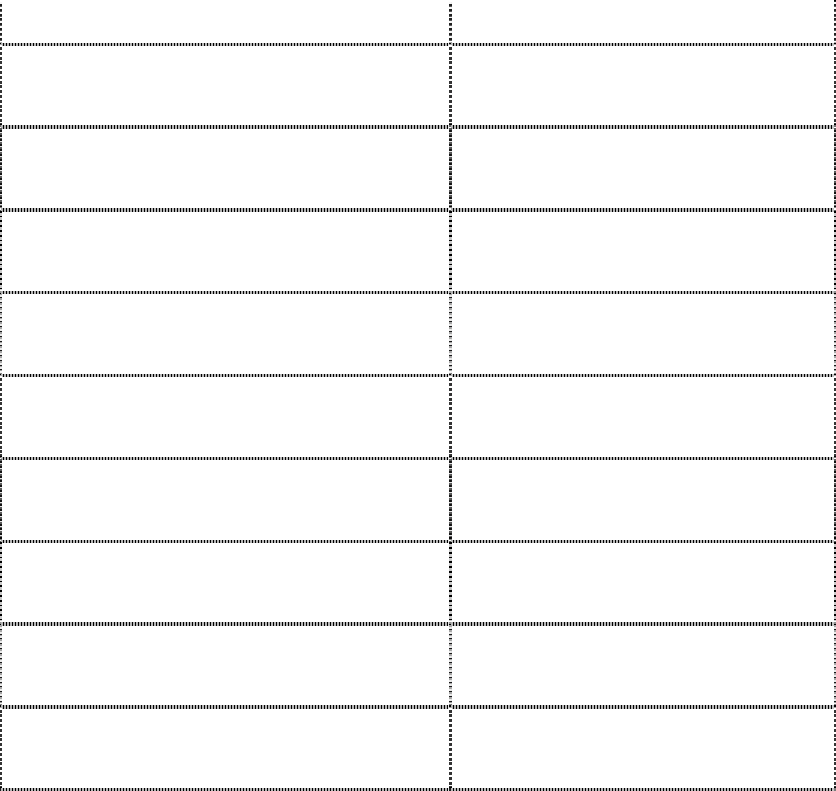
|  |  |
| --- | --- |
| GMPTSET | GMPTU |

* **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

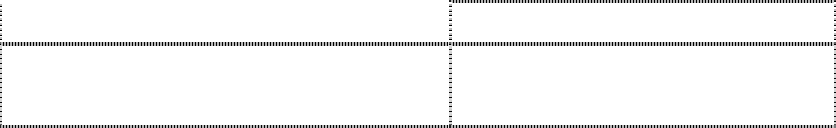
##### Renamed at Site

***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

## 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

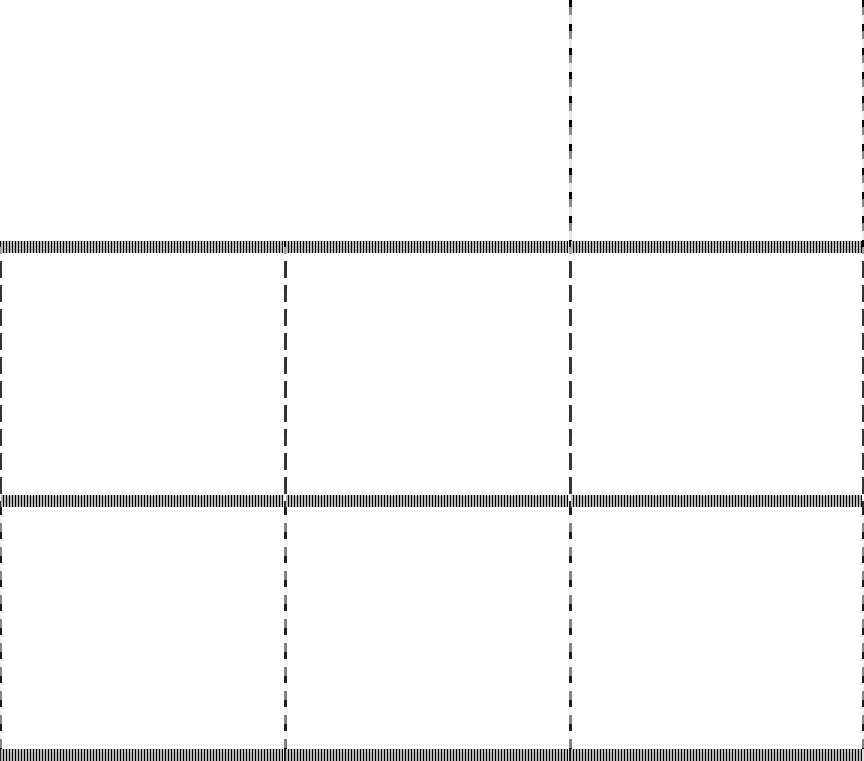
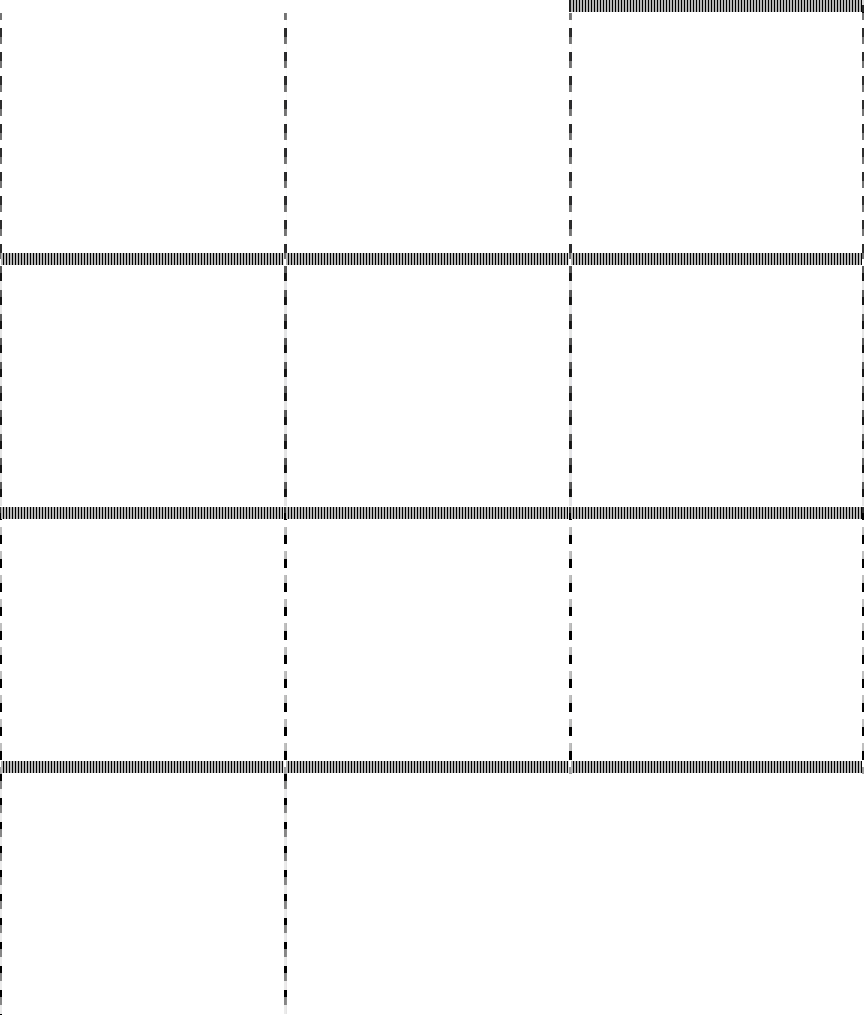
##### Recommended Packages

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)

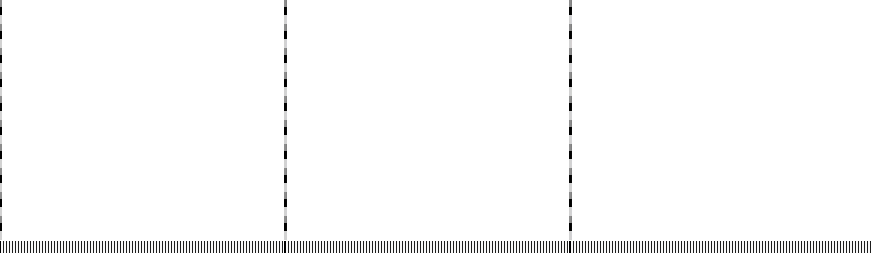
##### Required Files

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 |

## 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.

Pre-Installation

#### 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 |
| ***DSM Sites*** | User | RWD |

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 |
| ***Translation*** | User | RWP |

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.

## 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

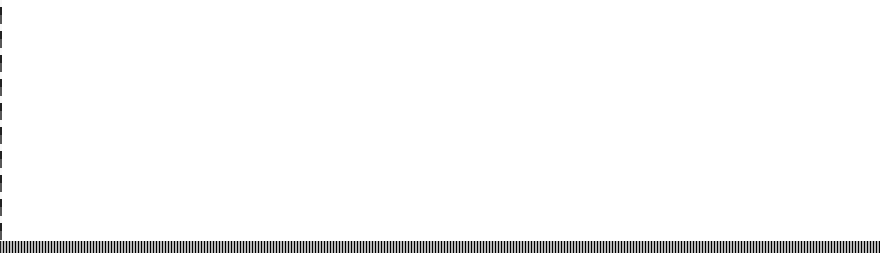
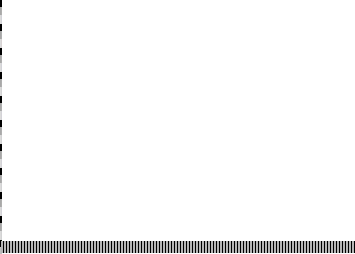
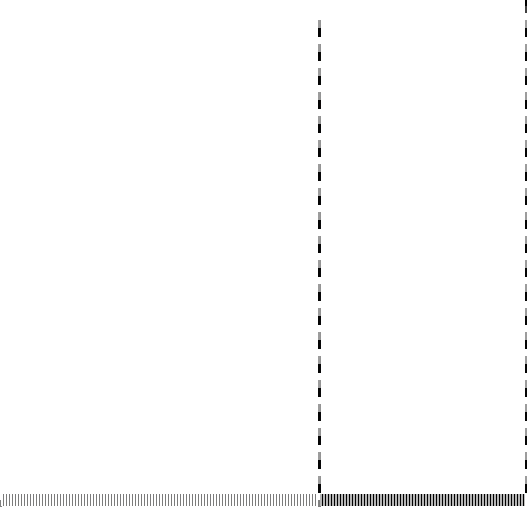
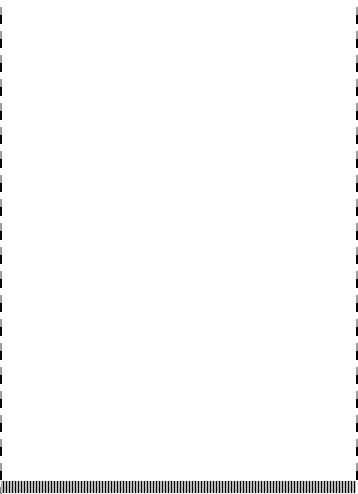
## Data

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

Installation

### 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

## 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**

Distribution System

Kernel Installation &

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 GMPL\*2.0\*7

Will first run the Environment Check Routine, LEXIENV Install Questions for LEXICON UTILITY 2.0

1. 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.

* 1. CODES

Note: You already have the 'CODES' File.

* 1. CODING SYSTEMS

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

* 1. EXCLUDED WORDS

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

* 1. REPLACEMENT WORDS

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

* 1. UNRESOLVED NARRATIVES

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

* 1. SEMANTIC MAP

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

* 1. SEMANTIC CLASSES

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

* 1. 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

## 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>](mailto: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

## Post-Installation Routine Messages

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

##### 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>](mailto: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 User Defaults Transferred Old Options were Deleted Special Lookup is LEXA1

New Globals are Installed Lexicon removed from MTLU New Options are Installed Problem List calls ^LEX

Lexicon v 2.0 installed

##### 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>](mailto:POSTMASTER@VAMCSITE.VA.GOV) Page 1

Problem List Survey

UCI: VAH,ROU (Production)

ON: MMM DD, YYYY at HH:MM am

Uncoded

Unresolved Narratives 45

Lexicon Terms 56

Inactive ICD Code

0

8

Active

ICD Code Total

10 55

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

## 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.

Post-Installation

### 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.

This page intentionally left blank

# 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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