

International Classification of Diseases, 10th Edition, Clinical Modification (ICD-10-CM) and

Procedure Coding System (ICD-10-PCS) Code Sets

**ICD\*18.0\*57 LEX\*2.0\*80**



**INSTALLATION GUIDE Apr 21, 2014**

**Effective Oct 1, 2014**

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# Pre-Installation Information

The ICD-10 Implementation project is comprised of three major components. The first is a Kernel Installation and Distribution System (KIDS) distribution with two builds containing updated data dictionaries (DDs), application programmer interfaces (APIs), routines, and options. The first build is the ICD Coding System build and the second is the Lexicon Utility. The builds are contained in a single multi-package KIDS distribution and will be installed in the order listed below:

Global Host File Name: **ICD\_18\_57.GBL**

KIDS Host File Name: **ICD\_18\_57.KID**

Install Name: **ICD\*18.0\*57**

Order of

|  |  |  |
| --- | --- | --- |
| Installation | Install Name (to install) | Contents |
| 1st | ICD\_18\_57.GBL | ^LEXM (data) (using ^%GI) |
| 2nd | ICD\_18\_57.KID | ICD\*18.0\*57 |
| 3rd |  | LEX\*2.0\*80 |

The second major component is a global host file containing the data.

Global Host File Name: **ICD\_18\_57.GBL**

The third component is the accompanying documentation, including Technical Manuals and User Manuals.

Lexicon Technical Manual Lexicon User Manual

ICD Technical Manual

## Minimum Required Packages

Before installing ICD-10, make sure that your system includes the following Department of Veterans Affairs (VA) software packages and versions (those listed or higher).

## Minimum Required Packages and Versions

|  |  |  |
| --- | --- | --- |
| **PACKAGE** | **MINIMUM VERSION** | **COMMENT** |
| **DRG Grouper** | 18.0 |  |
| **Lexicon Utility** | 2.0 |  |
| **Kernel** | 8.0 | TaskMan Running, place in WAIT state for the installation |
| **MailMan** | 8.0 | Running |
| **VA FileMan** | 22.0 |  |

## Required, Companion and Other Builds

### Required Builds

|  |  |  |  |
| --- | --- | --- | --- |
| **Build** | **Required Build** | **Released** | **Content** |
| ICD\*18.0\*57 | ICD\*18.0\*6 | Sep 24, 2003 | Code Set Versioning |
| ICD\*18.0\*12 | Oct 08, 2004 | Code Text Descriptors |
| ICD\*18.0\*15 | Jun 09, 2005 | Legacy APIs Fixes |
| ICD\*18.0\*29 | Nov 15, 2007 | ICD Legacy APIs Fixes |
| LEX\*2.0\*81 | Feb 14, 2012 | AWRD Cross-Reference fix |
| PSO\*7.0\*404 | Aug 14, 2012 | Global Read of ICD files |
| ONC\*2.11\*56 | Sep 27, 2012 | Global Read of ICD files |
| RA\*5.0\*112 | Apr 17, 2013 | Global Read of ICD files |
| ICD\*18.0\*62 | May 01, 2013 | DRG Grouper Fixes |
| GMPL\*2.0\*43 | May 14, 2013 | Global Read of ICD files |
| TIU\*1.0\*267 | May 14, 2013 | Global Read of ICD files |
| ICD\*18.0\*69 | Jun 21, 2013 | DRG Grouper Fixes |
| DG\*5.3\*870 | Jul 15, 2013 | Global Read of ICD files |
| IBD\*3.0\*64 | Sep 03, 2013 | Global Read of ICD files |
| LR\*5.2\*429 | Sep 18, 2013 | Global Read of ICD files |
| ACKQ\*3.0\*22 | Dec 12, 2013 | Global Read of ICD files |
| LEX\*2.0\*94 | Jan 14, 2014 | FY14 2nd Qtr Data Update |
| LEX\*2.0\*80 | LEX\*2.0\*25 | Sep 24, 2003 | Code Set Versioning |
| LEX\*2.0\*30 | Oct 08, 2004 | Code Text Descriptors |
| LEX\*2.0\*62 | May 06, 2009 | Code Set Queries |
| LEX\*2.0\*81 | Feb 14, 2012 | AWRD Cross-Reference fix |
| PSO\*7.0\*404 | Aug 14, 2012 | Global Read of ICD files |
| ONC\*2.11\*56 | Sep 27, 2012 | Global Read of ICD files |
| RA\*5.0\*112 | Apr 17, 2013 | Global Read of ICD files |
| ICD\*18.0\*62 | May 01, 2013 | DRG Grouper Fixes |
| GMPL\*2.0\*43 | May 14, 2013 | Global Read of ICD files |
| TIU\*1.0\*267 | May 14, 2013 | Global Read of ICD files |
| ICD\*18.0\*69 | Jun 21, 2013 | DRG Grouper Fixes |
| DG\*5.3\*870 | Jul 15, 2013 | Global Read of ICD files |
| IBD\*3.0\*64 | Sep 03, 2013 | Global Read of ICD files |
| LR\*5.2\*429 | Sep 13, 2013 | Global Read of ICD files |
| ACKQ\*3.0\*22 | Dec 12, 2013 | Global Read of ICD files |
| LEX\*2.0\*94 | Jan 14, 2014 | FY14 2nd Qtr Data Update |

### Companion Builds

These builds are not required, but should be installed shortly after ICD\*18.0\*57 to address problems with both the ICD-10 and Legacy ICD-9 environments.

|  |  |  |
| --- | --- | --- |
| **Patch** | **Content** | **Comment** |
| LR\*5.2\*422 | Anatomic Pathology ICD-10 | Required by LR\*5.2\*421 |
| LR\*5.2\*421 | Emerging Pathogens ICD-10 | Requires LR\*5.2\*422 |

These builds are not required. They make changes to the DRG Grouper component of the package.

|  |  |  |
| --- | --- | --- |
| **Patch** | **Released** | **Content** |
| ICD\*18.0\*60 | Pending | DRG ICD-10 Class I Remediation |
| ICD\*18.0\*64 | Pending | ICD-10 DRG Grouper |

### Other Noteworthy Builds

Applications that access ICD data have been modified to use ICD-10 data. These changes are exported in to the following patches:

|  |  |
| --- | --- |
| **Patch** | **Package/Content** |
| PX\*1.0\*199 | Patient Care Encounter |
| IBD\*3.0\*63 | Encounter Forms |
| SR\*3.0\*177 | Surgery |
| GMPL\*2\*42 | Problem List |
| IB\*2.0\*461 | Integrated Billing |
| GMRC\*3.0\*73 | Consults |
| OR\*3.0\*361 | Order Entry |
| FB\*3.5\*139 | Fee Basis |
| MC\*2.3\*44 | Medicine |
| ICD\*18.0\*64 | DRG Grouper |
| DG\*5.3\*850 | Admission, Discharge, Transfer (ADT) |
| IBD\*3.0\*65 | Encounter Forms |
| GMTS\*2.7\*101 | Health Summary |
| RMPR\*3\*168 | Prosthetics |
| OR\*3\*353 | Group Notes |
| MD\*1.0\*29 | Clinical Procedures |
| EC\*2\*114 | Event Capture |
| EDP\*2.0\*2 | Emergency Department |
| DSIF\*3.2\*37 | Fee Basis Claims System (FBCS) |
| MC\*2.3\*43 | Medicine |
| TIU\*1.0\*263 | Text Integration Utilities |
| OR\*3.0\*365 | Order Entry for CPRS 29 |
| GMPL\*2.0\*44 | Problem List/Clinical Reminders |

|  |  |
| --- | --- |
| PXRM\*2.0\*26 | Clinical Reminders |
| DG\*5.3\*862 | Patient Treatment File |
| ICD\*18.0\*60 | DRG Grouper |
| SD\*5.3\*586 | Scheduling |
| PRCA\*4.5\*281 | Accounts Receivable |
| SD\*5.3\*593 | Ambulatory Care |
| ROR\*1.5\*19 | Clinical Case Registries |
| HBH\*1\*25 | Hospital Based Home Care |
| ECX\*3\*138 | DSS Extracts |
| YS\*5.01\*107 | Mental Health |
| ACKQ\*3\*21 | QUASAR |
| SPN\*3.0\*3 | Spinal Cord |
| PSU\*4\*19 | Pharmacy Benefits Management |

## New Files

|  |  |  |  |
| --- | --- | --- | --- |
| **Application** | **File Name** | **File Number** | **Global Root** |
| ICD Grouper v 18.0 | ICD CODING SYSTEMS | 80.4 | ^ICDS( |
| DRG DIAGNOSIS IDENTIFIER CODES | 82 | ^ICDID( |
| DRG PROCEDURE IDENTIFIER CODES | 82.1 | ^ICDIP( |
| DRG CC EXCLUSIONS | 82.13 | ^ICDCCEX( |
| Lexicon Utility v 2.0 | CHARACTER POSITIONS | 757.033 | ^LEX(757.033, |

## Modified Files

Patch LEX\*2.0\*80 writes to the following files:

|  |  |  |  |
| --- | --- | --- | --- |
| **File Name** | **File Number** | **Global Root** | **ICR** |
| ICD DIAGNOSIS | #80 | ^ICD9( | ICR 4485 |
| ICD OPERATION/PROCEDURE | #80.1 | ^ICD0( | ICR 4486 |
| MAJOR CONCEPT MAP | #757 | ^LEX(757, | N/A |
| CONCEPT USAGE | #757.001 | ^LEX(757.001, | N/A |
| EXPRESSIONS | #757.01 | ^LEX(757.01, | N/A |
| CODES | #757.02 | ^LEX(757.02, | N/A |
| CODING SYSTEMS | #757.03 | ^LEX(757.03, | N/A |
| EXCLUDED WORDS | #757.04 | ^LEX(757.04, | N/A |
| REPLACEMENT WORDS | #757.05 | ^LEX(757.05, | N/A |
| SEMANTIC MAP | #757.1 | ^LEX(757.1, | N/A |
| SUBSET DEFINITIONS | #757.2 | ^LEXT(757.2, | N/A |
| SUBSETS | #757.21 | ^LEX(757.21, | N/A |
| LOOK-UP SCREENS | #757.3 | ^LEX(757.3, | N/A |
| DISPLAYS | #757.31 | ^LEX(757.31, | N/A |

## New Options

|  |  |  |
| --- | --- | --- |
| **Patch** | **Option Name** | **Option** |
| LEX\*2.0\*80 | Edit Search Threshold for a Coding  System | [LEX MGR EDIT SEARCH  THRESHOLD] |

## Modified Options

|  |  |  |
| --- | --- | --- |
| **Patch** | **Option Name** | **Option** |
| LEX\*2.0\*80 | ICD-9 Diagnosis Code Set Query | [LEX CSV ICD QUERY] |
| ICD-9 Procedure Code Set Query | [LEX CSV ICP QUERY] |
| Code History | [LEX CSV HISTORY] |
| ICD/CPT Code Set Change List | [LEX CSV ICD/CPT CHANGE LIST] |
| Edit Lexicon | [LEX MGR EDIT LEXICON] |
| Edit Term Definition | [LEX MGR EDIT DEFN] |
| Edit Shortcuts by Context | [LEX MGR EDIT SHORTCUTS] |

## New Routines

|  |  |  |
| --- | --- | --- |
| **Patch** | **Routine** | **Comment** |
| ICD\*18.0\*57 | ICDDIC | ICD DIC Prototype |
| ICDDICA | ICD DIC Prototype (ask) |
| ICDEX | ICD Data Extract |
| ICDEXA | ICD Data Extract replaces ICDAPIU |
| ICDEXA2 | ICD Data Extract replaces ICDAPIU |
| ICDEXA3 | ICD Data Extract replaces ICDAPIU |
| ICDEXC | ICD Data Extract replaces ICDCODE |
| ICDEXC2 | ICD Data Extract replaces ICDCODE |
| ICDEXC3 | ICD Data Extract replaces ICDCODE |
| ICDEXC4 | ICD Data Extract replaces ICDCODE |
| ICDEXD | ICD Data Extract supports DRG |
| ICDEXD2 | ICD Data Extract supports DRG |
| ICDEXD3 | ICD Data Extract supports DRG |
| ICDEXD4 | ICD Data Extract supports DRG |
| ICDEXD5 | ICD Data Extract supports DRG |
| ICDEXH | ICD Data Extract Help |
| ICDEXLK | ICD Special Lookup Routine |
| ICDEXLK2 | ICD Special Lookup Routine |
| ICDEXLK3 | ICD Special Lookup Routine |
| ICDEXLK4 | ICD Special Lookup Routine |
| ICDEXLK5 | ICD Special Lookup Routine |
| ICDEXLK6 | ICD Special Lookup Routine |
| ICDEXS | ICD Data Extract replaces ICDSUPT |
| ICDEXS2 | ICD Data Extract replaces ICDSUPT |
| ICDIDX | Indexing routine replaces ICD0IDX and ICD9IDX |

|  |  |  |
| --- | --- | --- |
| **Patch** | **Routine** | **Comment** |
|  | ICDIDX2 | Indexing routine replaces ICD0IDX and ICD9IDX |
| ICDSAPI | ICD Search |
| ICDTOKN | Parse String into Words |
| ICDXCODE | Code Data |
| LEX\*2.0\*80 | LEX10CS | ICD-10 Coding System Utilities |
| LEX10CS2 | ICD-10 Coding System Utilities (cont) |
| LEX10CX | ICD-10 Suggestion Lookup |
| LEX10CX2 | ICD-10 Suggestion Lookup – Source |
| LEX10CX3 | ICD-10 Suggestion Lookup – Target |
| LEX10CX4 | ICD-10 Suggestion Lookup – Prompt |
| LEX10CX5 | ICD-10 Suggestion Lookup – Miscellaneous |
| LEX10DBC | ICD-10 Diagnosis Lookup by Code |
| LEX10DBR | ICD-10 Diagnosis Lookup by Root |
| LEX10DBT | ICD-10 Diagnosis Lookup by Text |
| LEX10DL | ICD-10 Diagnosis Lookup |
| LEX10DLS | ICD-10 Diagnosis Lookup Selection |
| LEX10DU | ICD-10 Diagnosis Utilities |
| LEX10DX | ICD-10 Diagnosis |
| LEX10PL | ICD-10 Procedure Lookup |
| LEX10PLA | ICD-10 Procedure Abbreviations |
| LEX10PLS | ICD-10 Procedure Selection |
| LEX10PR | ICD-10 Procedures |
| LEX10TAX | Post-ICD-10 Taxonomies |
| LEXDMGS | Manager Edit of Search Threshold |
| LEXHLP2 | Help routine that includes ICD-10 |
| LEXQC3 | Expanded Query Change Option to include ICD-10 |
| LEXQC4 | Expanded Query Change Option to include ICD-10 |
| LEXQL4 | Expanded Query Lookup option to include ICD-10 |
| LEXTOKN | Parse Text into Words |
| LEXTOKN2 | Special Case Words |
| LEXU2 | Lexicon Utilities CS Data API |
| LEXU3 | Lexicon Utilities Implementation Date and CS |
| LEXU4 | Lexicon Utilities PERIOD and HISTORY APIs |
| LEXUH | Lexicon Utilities Help |
| LEXXM | Mix Case |
| LEXXM1 | Mix Case (1) |
| LEXXM2 | Mix Case (2) |
| LEXXM3 | Mix Case (3) |
| LEXXM4 | Mix Case (4) |
| LEXXM5 | Mix Case (5) |
| LEXXM6 | Mix Case (+6) |
| LEXXMM | Mix Case (Miscellaneous) |

## Modified Routines

|  |  |  |
| --- | --- | --- |
| **Patch** | **Routine** | **Comment** |
| ICD\*18.0\*57 | ICDAPIU | Calls data extraction ICDEX\* |
| ICDCOD | Calls INQ^ICDEX |
| ICDCODE | Calls data extraction ICDEX\* |
| ICDDRG | Calls data extraction ICDEX\* |
| ICDDRGM | Calls data extraction ICDEX\* |
| ICDGTDRG | Calls data extraction ICDEX\* |
| ICDID | File Identifiers modified for ICD-10 |
| ICDREF | Calls data extraction ICDEX\* |
| ICDSUPT | Calls data extraction ICDEX\* |
| LEX\*2.0\*80 | LEXA | Removed reference to ^VA(200) ICR 10060 |
| LEXA1 | Modified output to include ICD-10 |
| LEXA2 | First 2 Lines Edited (SACC) |
| LEXA3 | First 2 Lines Edited (SACC) |
| LEXA4 | First 2 Lines Edited (SACC) |
| LEXAB | Changed how date is handled |
| LEXABC | Lookup by Code to include ICD-10 |
| LEXABC2 | First 2 Lines Edited (SACC) |
| LEXAFIL | First 2 Lines Edited (SACC) |
| LEXAL | Modify Frequency |
| LEXAL2 | First 2 Lines Edited (SACC) |
| LEXALK | Changed how date is handled |
| LEXAM | First 2 Lines Edited (SACC) |
| LEXAMD | First 2 Lines Edited (SACC) |
| LEXAMD2 | First 2 Lines Edited (SACC) |
| LEXAR | Changed how date is handled |
| LEXAR2 | First 2 Lines Edited (SACC) |
| LEXAR3 | Help Text includes ICD-10 |
| LEXAR4 | Changed how date is handled |
| LEXAR5 | Includes ICD-10 in VAS Selection array |
| LEXAR6 | Quit saving Unresolved Narratives |
| LEXAR7 | Documentation only |
| LEXAS | First 2 Lines Edited (SACC) |
| LEXAS2 | First 2 Lines Edited (SACC) |
| LEXAS3 | First 2 Lines Edited (SACC) |
| LEXAS4 | First 2 Lines Edited (SACC) |
| LEXAS5 | First 2 Lines Edited (SACC) |
| LEXAS6 | First 2 Lines Edited (SACC) |
| LEXAS7 | First 2 Lines Edited (SACC) |
| LEXASC | Changed how date is handled |
| LEXASO | Changed how date is handled |

|  |  |  |
| --- | --- | --- |
| **Patch** | **Routine** | **Comment** |
|  | LEXCODE | Added sub-routine Code |
| LEXDCC | Removed reference to ^VA(200) ICR 10060 |
| LEXDCCC | First 2 Lines Edited (SACC) |
| LEXDCCS | First 2 Lines Edited (SACC) |
| LEXDCX | Removed reference to ^VA(200) ICR 10060 |
| LEXDCXS | First 2 Lines Edited (SACC) |
| LEXDD1 | Removed reference to ^VA(200) ICR 10060 |
| LEXDD2 | Removed reference to ^VA(200) ICR 10060 |
| LEXDD3 | First 2 Lines Edited (SACC) |
| LEXDD4 | Removed reference to ^VA(200) ICR 10060 |
| LEXDDS | Removed reference to ^VA(200) ICR 10060 |
| LEXDDSD | First 2 Lines Edited (SACC) |
| LEXDDSP | Removed reference to ^VA(200) ICR 10060 |
| LEXDDSS | First 2 Lines Edited (SACC) |
| LEXDDT1 | First 2 Lines Edited (SACC) |
| LEXDDT2 | First 2 Lines Edited (SACC) |
| LEXDDTC | First 2 Lines Edited (SACC) |
| LEXDDTD | First 2 Lines Edited (SACC) |
| LEXDDTF | First 2 Lines Edited (SACC) |
| LEXDDTV | First 2 Lines Edited (SACC) |
| LEXDFL | Removed reference to ^VA(200) ICR 10060 |
| LEXDFLC | First 2 Lines Edited (SACC) |
| LEXDFLS | First 2 Lines Edited (SACC) |
| LEXDFLT | First 2 Lines Edited (SACC) |
| LEXDFN | First 2 Lines Edited (SACC) |
| LEXDFN2 | Check for numeric subset |
| LEXDFSB | Documentation |
| LEXDFSE | Fix block mismatch error |
| LEXDFSI | First 2 Lines Edited (SACC) |
| LEXDFSO | First 2 Lines Edited (SACC) |
| LEXDFSS | Documentation only |
| LEXDFST | First 2 Lines Edited (SACC) |
| LEXDM | Documentation only |
| LEXDM2 | Removed reference to ^VA(200) ICR 10060 |
| LEXDM3 | First 2 Lines Edited (SACC) |
| LEXDM4 | Remove Defaults by Location |
| LEXDMG | First 2 Lines Edited (SACC) |
| LEXDMGO | Documentation only |
| LEXDMGT | Removed reference to ^VA(200) ICR 10060 |
| LEXDMGU | Remove Defaults by Location |
| LEXDMGV | Remove Defaults by Location |
| LEXDSV | First 2 Lines Edited (SACC) |
| LEXDVO | Removed reference to ^VA(200) ICR 10060 |

|  |  |  |
| --- | --- | --- |
| **Patch** | **Routine** | **Comment** |
|  | LEXDVOS | Remove Defaults by Location |
| LEXEDF1 | Documentation only |
| LEXEDF2 | Documentation only |
| LEXERF | Documentation only |
| LEXERI | Documentation only |
| LEXHLP | Documentation only |
| LEXLK | First 2 Lines Edited (SACC) |
| LEXLK2 | Documentation only |
| LEXMTLU | Documentation only |
| LEXNDX1 | Documentation only |
| LEXNDX2 | Documentation only |
| LEXNDX3 | Documentation only |
| LEXNDX4 | Force Uppercase Word Index |
| LEXNDX5 | Documentation only |
| LEXNDX6 | Force Uppercase Word Index |
| LEXNDX8 | Added ICD-10 Cross-References |
| LEXPRNT | First 2 Lines Edited (SACC) |
| LEXQC | Includes ICD-10, remove ICD global reference |
| LEXQC2 | Includes ICD-10, remove ICD global reference |
| LEXQCM | Modified to use first activation Date |
| LEXQCM2 | Modified to use future date |
| LEXQCP | Modified to use first activation Date |
| LEXQCP2 | Modified to use future date |
| LEXQCPA | Remove extra space character in code |
| LEXQH | History routine modified to include ICD-10 |
| LEXQHL1 | History routine modified to include ICD-10 |
| LEXQHL2 | History routine modified to include ICD-10 |
| LEXQHL3 | History routine modified to include ICD-10 |
| LEXQHL4 | History routine modified to include ICD-10 |
| LEXQHL5 | History routine modified to include ICD-10 |
| LEXQHLM | History routine modified to include ICD-10 |
| LEXQID | ICD DX Query modified to include ICD-10 |
| LEXQID2 | ICD DX Query modified to include ICD-10 |
| LEXQID3 | ICD DX Query modified to include ICD-10 |
| LEXQID4 | ICD DX Query modified to include ICD-10 |
| LEXQIDA | ICD DX Query modified to include ICD-10 |
| LEXQIP | ICD Proc Query modified to include ICD-10 |
| LEXQIP2 | ICD Proc Query modified to include ICD-10 |
| LEXQIP3 | ICD Proc Query modified to include ICD-10 |
| LEXQIPA | ICD Proc Query modified to include ICD-10 |
| LEXQL | Code Lookup modified to include ICD-10 |
| LEXQL2 | Code Lookup modified to include ICD-10 |
| LEXQL3 | Code Lookup modified to include ICD-10 |

|  |  |  |
| --- | --- | --- |
| **Patch** | **Routine** | **Comment** |
|  | LEXQM | Fix date prompt |
| LEXRX | Documentation only |
| LEXRXB | Documentation only |
| LEXRXC | Documentation only |
| LEXRXD | Documentation only |
| LEXRXE | Documentation only |
| LEXRXF | Change Parsing |
| LEXRXG | Documentation only |
| LEXRXD4 | Modified for new Data Dictionary |
| LEXRXXP | Change Parsing |
| LEXRXXS | Documentation only |
| LEXRXXT3 | Fix Subscript Error |
| LEXSC | Documentation only |
| LEXSC2 | Documentation only |
| LEXSC3 | Documentation only |
| LEXSET | Changed how date is handled |
| LEXSET2 | First 2 Lines Edited (SACC) |
| LEXSET3 | First 2 Lines Edited (SACC) |
| LEXSET4 | First 2 Lines Edited (SACC) |
| LEXSET5 | Removed reference to ^VA(200) ICR 10060 |
| LEXSRC2 | Added coding system |
| LEXTRAN | Modified how coding system retrieved |
| LEXTRAN1 | Added CSI sub-routine (code system IEN) |
| LEXU | Added ICD-10 related sub-routines |
| LEXXFI | Documentation only |
| LEXXFI3 | Documentation only |
| LEXXFI4 | Documentation only |
| LEXXFI6 | Documentation only |
| LEXXFI7 | Documentation only |
| LEXXFI8 | Documentation only |
| LEXXFQ | Documentation only |
| LEXXGI | Do not invoke the protocol (LEXNOPRO) |
| LEXXGI2 | Do not invoke the protocol (LEXNOPRO) |
| LEXXGI3 | Remove ICD global reference |
| LEXXGI4 | Repair Indexes |
| LEXXII | Documentation only |
| LEXXII2 | Documentation only |

## Deleted Routines

|  |  |  |
| --- | --- | --- |
| **Patch** | **Routine** | **Comment** |
| ICD\*18.0\*57 | ICD1857 | Environment Check, Deleted by Site |
| ICD1857P | Post-Install, Deleted by Site |
| ICD0IDX | ICD0 Indexing Routine |
| ICD9IDX | ICD9 Indexing Routine |
| LEX\*2.0\*80 | LEX2080 | Environment Check, Deleted by Site |
| LEX2080A | Post-Install, Deleted by Site |
| LEX2080B | Post-Install, Deleted by Site |
| LEX2080C | Post-Install, Deleted by Site |
| LEX2080P | Post-Install, Deleted by Site |
| LEXIENV | Old Environment Check |
| LEXILG | LEXILG\* Old Post-Install |
| LEXILGD | LEXILG\* Old Post-Install |
| LEXILGO | LEXILG\* Old Post-Install |
| LEXILGP | LEXILG\* Old Post-Install |
| LEXILGU | LEXILG\* Old Post-Install |
| LEXILGX | LEXILG\* Old Post-Install |
| LEXLGM | LEXLG\* Lexicon Survey |
| LEXLGM2 | LEXLG\* Lexicon Survey |
| LEXLGM3 | LEXLG\* Lexicon Survey |
| LEXPL | LEXPL\* Problem List Survey |
| LEXPLEM | LEXPL\* Problem List Survey |
| LEXPLIA | LEXPL\* Problem List Survey |
| LEXPLUP | LEXPL\* Problem List Survey |
| LEXTOLKN | Parse Text into Words |
| LEXXST | LEXXST\* Lexicon Status Report |
| LEXXST2 | LEXXST\* Lexicon Status Report |
| LEXXST3 | LEXXST\* Lexicon Status Report |
| LEXXST4 | LEXXST\* Lexicon Status Report |

* 1. **New or Modified APIs (supported)**

|  |  |  |
| --- | --- | --- |
| **Patch** | **API** | **ICR** |
| ICD\*18.0\*57 | $$ICDDX^ICDCODE | ICR 3990, Modified |
| $$ICDOP^ICDCODE | ICR 3990, Modified |
| $$ICDD^ICDCODE | ICR 3990, Modified |
| $$CODEN^ICDCODE | ICR 3990, Modified |
| $$CODEC^ICDCODE | ICR 3990, Modified |
| $$STATCHK^ICDAPIU | ICR 3991, Modified |
| $$NEXT^ICDAPIU | ICR 3991, Modified |
| $$PREV^ICDAPIU | ICR 3991, Modified |
| $$HIST^ICDAPIU | ICR 3991, Modified |

|  |  |  |
| --- | --- | --- |
| **Patch** | **API** | **ICR** |
|  | $$DTBR^ICDAPIU | ICR 3991, Modified |
| $$MSG^ICDAPIU | ICR 3991, Modified |
| PERIOD^ICDAPIU | ICR 3991, Modified |
| $$ICDDATA^ICDXCODE | ICR 5699, New |
| $$ICDDESC^ICDXCODE | ICR 5699, New |
| $$STATCHK^ICDXCODE | ICR 5699, New |
| $$HIST^ICDXCODE | ICR 5699, New |
| $$NEXT^ICDXCODE | ICR 5699, New |
| $$PREV^ICDXCODE | ICR 5699, New |
| $$PERIOD^ICDXCODE | ICR 5699, New |
| SEARCH^ICDSAPI | ICR 5757, New |
| LEX\*2.0\*80 | $$PCSDIG^LEX10CS | ICR 5681, New |
| $$DIAGSRCH^LEX10CS | ICR 5681, New |
| $$ICDSRCH^LEX10CS | ICR 5681, New |
| $$CODELIST^LEX10CS | ICR 5681, New |
| $$DX^LEXU | ICR 5679, New |
| $$D10ONE^LEXU | ICR 5679, New |
| $$P10ONE^LEXU | ICR 5679, New |
| $$ONE^LEXU | ICR 5679, New |
| $$D10^LEXU | ICR 5679, New |
| $$ALL^LEXU | ICR 5679, New |
| $$SCT^LEXU | ICR 5679, New |
| $$HIST^LEXU | ICR 5679, New |
| $$PERIOD^LEXU | ICR 5679, New |
| $$CSDATA^LEXU | ICR 5679, New |
| $$IMPDATE^LEXU | ICR 5679, New |
| $$NXSAB^LEXU | ICR 5679, New |
| $$CSYS^LEXU | ICR 5679, New |
| $$FREQ^LEXU | ICR 5679, New |
| $$MAX^LEXU | ICR 5679, New |
| $$PAR^LEXU | ICR 5679, New |
| $$CAT^LEXU | ICR 5679, New |

## New APIs (by subscription)

|  |  |  |
| --- | --- | --- |
| **Patch** | **API** | **ICR** |
| **ICD\*18.0\*57** | $$ICDDX^ICDEX | ICR 5747, New |
| $$ICDOP^ICDEX | ICR 5747, New |
| $$ICDD^ICDEX | ICR 5747, New |
| $$CODEN^ICDEX | ICR 5747, New |
| $$CODEC^ICDEX | ICR 5747, New |
| $$CODEBA^ICDEX | ICR 5747, New |
| $$CODEABA^ICDEX | ICR 5747, New |
| $$CODEFI^ICDEX | ICR 5747, New |
| $$CODECS^ICDEX | ICR 5747, New |

|  |  |  |
| --- | --- | --- |
| **Patch** | **API** | **ICR** |
|  | $$CSI^ICDEX | ICR 5747, New |
| $$VMDC^ICDEX | ICR 5747, New |
| $$VAGEL^ICDEX | ICR 5747, New |
| $$VAGEH^ICDEX | ICR 5747, New |
| $$VCC^ICDEX | ICR 5747, New |
| $$VCCP^ICDEX | ICR 5747, New |
| $$VSEX^ICDEX | ICR 5747, New |
| $$SAI^ICDEX | ICR 5747, New |
| $$VST^ICDEX | ICR 5747, New |
| $$VLT^ICDEX | ICR 5747, New |
| $$VSTD^ICDEX | ICR 5747, New |
| $$VSTP^ICDEX | ICR 5747, New |
| $$VLTD^ICDEX | ICR 5747, New |
| $$VLTP^ICDEX | ICR 5747, New |
| $$SD^ICDEX | ICR 5747, New |
| $$LD^ICDEX | ICR 5747, New |
| $$SDH^ICDEX | ICR 5747, New |
| $$LDH^ICDEX | ICR 5747, New |
| PAR^ICDEX | ICR 5747, New |
| $$STATCHK^ICDEX | ICR 5747, New |
| $$DTBR^ICDEX | ICR 5747, New |
| $$IMP^ICDEX | ICR 5747, New |
| $$MSG^ICDEX | ICR 5747, New |
| $$SEL^ICDEX | ICR 5747, New |
| $$NEXT^ICDEX | ICR 5747, New |
| $$PREV^ICDEX | ICR 5747, New |
| $$HIST^ICDEX | ICR 5747, New |
| $$PERIOD^ICDEX | ICR 5747, New |
| $$OBA^ICDEX | ICR 5747, New |
| $$OD^ICDEX | ICR 5747, New |
| $$DLM^ICDEX | ICR 5747, New |
| $$CS^ICDEX | ICR 5747, New |
| $$EFF^ICDEX | ICR 5747, New |
| $$IA^ICDEX | ICR 5747, New |
| $$LA^ICDEX | ICR 5747, New |
| $$LI^ICDEX | ICR 5747, New |
| $$LS^ICDEX | ICR 5747, New |
| $$NUM^ICDEX | ICR 5747, New |
| $$COD^ICDEX | ICR 5747, New |
| $$IE^ICDEX | ICR 5747, New |
| $$FILE^ICDEX | ICR 5747, New |
| $$ROOT^ICDEX | ICR 5747, New |
| $$SYS^ICDEX | ICR 5747, New |

|  |  |  |
| --- | --- | --- |
| **Patch** | **API** | **ICR** |
|  | $$SINFO^ICDEX | ICR 5747, New |
| $$SNAM^ICDEX | ICR 5747, New |
| $$SAB^ICDEX | ICR 5747, New |
| $$EXC^ICDEX | ICR 5747, New |
| $$VER^ICDEX | ICR 5747, New |
| $$ISA^ICDEX | ICR 5747, New |
| $$ISVALID^ICDEX | ICR 5747, New |
| $$EXIST^ICDEX | ICR 5747, New |
| $$GETDRG^ICDEX | ICR 5747, New |
| MD^ICDEX | ICR 5747, New |
| $$EFM^ICDEX | ICR 5747, New |
| $$FY^ICDEX | ICR 5747, New |
| $$VMDCDX^ICDEX | ICR 5747, New |
| $$VMDCOP^ICDEX | ICR 5747, New |
| $$REF^ICDEX | ICR 5747, New |
| MDCG^ICDEX | ICR 5747, New |
| $$MDCT^ICDEX | ICR 5747, New |
| $$MDCD^ICDEX | ICR 5747, New |
| $$MOR^ICDEX | ICR 5747, New |
| $$UPDX^ICDEX | ICR 5747, New |
| $$NOT^ICDEX | ICR 5747, New |
| $$REQ^ICDEX | ICR 5747, New |
| $$NCC^ICDEX | ICR 5747, New |
| $$ICDID^ICDEX | ICR 5747, New |
| $$ICDSTR^ICDEX | ICR 5747, New |
| $$ICDIDS^ICDEX | ICR 5747, New |
| $$ISOWNCC^ICDEX | ICR 5747, New |
| $$ICDRGCC^ICDEX | ICR 5747, New |
| INQ^ICDEX | ICR 5747, New |
| $$EFD^ICDEX | ICR 5747, New |
| $$PDXE^ICDEX | ICR 5747, New |
| $$DRG^ICDEX | ICR 5747, New |
| $$DRGDES^ICDEX | ICR 5747, New |
| $$DRGD^ICDEX | ICR 5747, New |
| $$DRGN^ICDEX | ICR 5747, New |
| $$GETDATE^ICDEX | ICR 5747, New |
| LK^ICDEX | ICR 5747, New |
| $$LKTX^ICDEX | ICR 5747, New |
| Y^ICDEX | ICR 5747, New |
| TOKEN^ICDEX | ICR 5747, New |
| $$WORD^ICDEX | ICR 5747, New |
| $$IEN^ICDEX | ICR 5747, New |
| LEX\*2.0\*80 | EN1^LEX10CX | ICR 5840, New |

|  |  |  |
| --- | --- | --- |
| **Patch** | **API** | **ICR** |
|  | EN2^LEX10CX | ICR 5840, New |
| EN3^LEX10CX | ICR 5840, New |

* 1. **Modified Documentation**

|  |  |  |
| --- | --- | --- |
| **Patch** | **File Name** | **Content** |
| ICD\*18.0\*57 | ICD\_18\_57\_ICDTM.PDF | ICD Technical Manual |
| LEX\*2.0\*80 | ICD\_18\_57\_LEXTM.PDF | Lexicon Technical Manual |
| ICD\_18\_57\_LEXUM.PDF | Lexicon User Manual |

* 1. **Remedy Tickets**

|  |  |  |  |
| --- | --- | --- | --- |
| **Build** | **Ticket** | **Summary** | **Content** |
| ICD\*18.0\*57 | 221565 | Duplicate ICD Procedure code 32.41 | Original |
| 223750 | Duplicate ICD Procedure code 32.41 | Duplicate of 221565 |
| 239262 | Duplicate ICD Procedure code 32.41 | Duplicate of 221565 |
| 331089 | Duplicate ICD Procedure code 32.41 | Duplicate of 221565 |
| 333612 | Duplicate ICD Procedure code 32.41 | Duplicate of 221565 |
| 340389 | Duplicate ICD Procedure code 32.41 | Duplicate of 221565 |
| 222300 | Text Histories for Problem List |  |
| LEX\*2.0\*80 | 609125 | %DT variable in CODE^LEXTRAN |  |
| 736579 | ICD-9 Filter displays DSM-IV Codes |  |

# ICD-10 Code Set Installation Instructions

This is a multi-package KIDS Distribution consisting of two host files containing two builds and one global:

|  |  |  |
| --- | --- | --- |
| **Host File** | **Component** | **Content** |
| ICD\_18\_57.KID | ICD\*18.0\*57 | ICD-10-CM/PCS Coding System Implementation |
| LEX\*2.0\*80 | ICD-10-CM/PCS Lexicon Implementation |
| ICD\_18\_57.GBL | ^LEXM | Lexicon data export global |

## Common Installation Errors and Warnings

This KIDS distribution has been installed multiple times in numerous namespaces with two common errors. There are also five specific warnings to heed:

### Control Character Error on Global Save

An error may occur while creating a backup copy of the ^LEX global with a warning "Global ^LEX contains control characters." This is caused by the UNRESOLVED NARRATIVE FILE 757.06 containing the provider’s exact input, including backspace and tab characters. (See the section ["Backup](#_bookmark39) [Preparation"](#_bookmark39))

### Full File Error during FTP/Global Load

To avoid the **FULLFILE** error ensure that sufficient free disk space is available before starting (see the section ["Disk Capacity Requirements for](#_bookmark30) [ICD-10"](#_bookmark30))

### WARNING: Install during Non-Peak Hours

It is recommended that this patch be installed during non-peak hours. During the installation the ICD DIAGNOSIS file #80 and ICD OPERATION/PROCEDURE file #80.1 will not exist.

### WARNING: Users must be off of the system for the KIDS Install

All steps leading up to the [KIDS Installation](#_bookmark49) may be done with the users on the system. Users must be off of the system during the KIDS installation. Applications, particularly clinical and fiscal applications that use ICD Diagnosis and Procedure, could encounter significant errors if exercised during the install.

### WARNING: Place TaskMan in a Wait State for the Installation

TaskMan must remain running but in a WAIT state for the duration of the KIDS installation. Once the install is complete, restore TaskMan by removing TaskMan from a WAIT state.

### WARNING: Installation will Temporarily Delete the ICD Coding Files

This install will completely delete the Data Dictionaries and data for both the ICD DIAGNOSIS file #80 and the ICD OPERATION/PROCEDURE file

#80.1 and then rebuild them. The process takes about 2 hours.

### WARNING: Do not Interrupt the Installation

If the pre-install runs and deletes the ICD files and the post-install does not run, the site may be left with either missing or incomplete ICD files.

### WARNING: Do not Queue this Installation

This installation is interactive. If it is queued, it will hang and not install.

### WARNING: Do not install if Window’s Updates are Scheduled/Pending

Check with local network support that no Window’s updates are scheduled for the period of the ICD-10 install. Also, check the toolbar and see if there is a Window’s Update icon for a pending Window’s update from a previous push. A Window’s update will disrupt the session and the KIDS installation.



## System Resource Requirements

The ICD-10 Code Set installation requires the modification of the ICD Diagnosis file #80, ICD Procedure file #80.1, and the Lexicon Coding System file #757.03. It adds the ICD Coding System file #80.4 and the Lexicon Character Position file #757.033. The data dictionary changes will be made by the KIDS build. Data will be added to the following files:

|  |  |  |  |
| --- | --- | --- | --- |
| **File #** | **File Name** | **Type of Export** | **Nodes Exported** |
| 80 | ICD DIAGNOSIS | Full File, Replace | 6373187 |
| 80.1 | ICD OPER/PROC | Full File, Replace | 3403471 |
| 80.4 | ICD CODING SYSTEMS | Full File, Replace | 21 |
| 757 | MAJOR CONCEPT MAP | Changes only | 277117 |
| 757.001 | CONCEPT USAGE | Changes only | 423881 |
| 757.01 | EXPRESSIONS | Changes only | 4182330 |
| 757.02 | CODES | Changes only | 3362342 |
| 757.03 | CODING SYSTEMS | Full File, Replace | 227 |
| 757.04 | EXCLUDED WORDS | Full File, Replace | 493 |
| 757.05 | REPLACEMENT WORDS | Full File, Replace | 5133 |
| 757.033 | CHARACTER POSITIONS | Full File, Replace | 4837511 |
| 757.04 | EXCLUDED WORDS | Changes only | 24 |
| 757.05 | REPLACEMENT WORDS | Full File, Replace | 7720 |
| 757.1 | SEMANTIC MAP | Changes only | 692791 |
| 757.2 | SUBSET DEFINITIONS | Changes only | 137 |
| 757.21 | SUBSETS | Changes only | 526269 |
| 757.3 | LOOK-UP SCREENS | Full File, Replace | 255 |
| 757.31 | DISPLAYS | Full File, Replace | 137 |

The data changes are exported using the Lexicon’s export global ^LEXM. This global will need to be loaded prior to installing this build. The post-install will delete the export global ^LEXM.

### Disk Capacity Requirements for ICD-10

**Permanent Retention: (before/after sizes computed with %GSIZE) Before ICD-10 update (includes LEX\*2.0\*51 and LEX\*2.0\*8**

|  |  |  |  |
| --- | --- | --- | --- |
| **Global** | **Blocks** | **Bytes** | **MB** |
| ICD0 | 639 | 4361548 | 4.16 |
| ICD9 | 3572 | 24697088 | 23.55 |
| LEX | 88761 | 547348588 | 521.99 |
| Total | 92972 | 576407224 | 549.70 |

**After ICD-10 update:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Global** | **Blocks** | **Bytes** | **MB** |
| ICD0 | 10399 | 68416876 | 65.25 |
| ICD9 | 15653 | 105232556 | 100.36 |
| ICDS | 1 | 324 | 0.00 |
| LEX` | 119296 | 771109528 | 735.39 |
| Total | 145349 | 944759284 | 900.99 |

**Increase**

|  |  |  |  |
| --- | --- | --- | --- |
| Total | 52377 | 368352060 | 351.29 |

### Temporary Installation Space Requirements

In addition to the permanent size increases outlined above, the installing system will need to be able to accommodate three temporary files, which will need to coexist for a short time:

The first file is a global host file named ICD\_18\_57.GBL. It contains the Lexicon export global

^LEXM. Sites will use the specified File Transfer Protocol (FTP) to retrieve this file from an FTP server. This file may be deleted from the system once the export file has been loaded using %GI.

The second is the Lexicon export global ^LEXM and will exist after it has been loaded from the global host file.

The third temporary and lesser file is the Kernel Installation and Distribution System (KIDS) host file ICD\_18\_57.KID. This file will be FTPed from an FTP server and contains the KIDS distribution with patches ICD\*18.0\*57 and LEX\*2.0\*80. This file may be deleted from the system once the KIDS distribution has been loaded (XPD).

|  |  |  |  |
| --- | --- | --- | --- |
| **Global/File** | **Blocks** | **Bytes** | **MB** |
| ^LEXM Export Global | 195742 | 1200786332 | 1145.16 |
| Global Host File \*.GBL | 3133983 | 1604599296 | 1530.27 |
| Install Host File \*.KID | 4966 | 2542592 | 2.42 |
| Total | 3334691 | 2807928220 | 2677.85 |

### Summary

|  |  |
| --- | --- |
| **Bytes** | **MB** |
| 368352060 | 351.29 |
| 2807928220 | 2677.85 |
| 3176280280 | 3029.14 |

Increased Permanent Space Temporary Space

Total additional Space Required

However, this could be reduced to 2.1 GB with judicious use of timing (e.g., first FTP the export file, then load the export file, then delete VMS file, and finally install the patch).

|  |  |  |  |
| --- | --- | --- | --- |
| **FTP** | **^%GI** | **XPD KIDS Install** | **Post-Install** |
| ICD\_18\_57.GBL Host File | | **Deleted** | |
| 1604599296 bytes (1530.27 MB) | |
|  | ICD\_18\_57.KID Host File | | **Deleted** |
|  | 2542592 bytes (2.42 MB) | |
| **Non-**  **Existent** | ^LEXM Export Global | | **Deleted** |
| 1200786332 bytes (1145.16 MB) | |
| **Non-Existent** | | Increased Permanent Retention | |
| 368352060 bytes (351.29 MB) | |

Please note that some of these figures may differ slightly on other systems but they should be in the approximate range. To prevent allocation problems, all MB and GB totals are rounded upward.

## ICD-10 Code Set Installation Instructions

### Distribution

This distribution contains two (2) builds in a single KIDS host file and a global in a global host file.

ICD\_18\_57.KID ICD\*18.0\*57 LEX\*2.0\*80

ICD\_18\_57.GBL ^LEXM

**The distribution is an “all or nothing” distribution**, meaning that if the environment check for any of the two builds fail, then both transport globals will be deleted from the system. This is done because the data for the ICD-9 file and the Lexicon is being distributed in a single global, ^LEXM. Should an environment check fail, the transport globals are deleted to prevent the install of the KIDS build without the data in ^LEXM.

### Estimated Timing

|  |  |  |  |
| --- | --- | --- | --- |
| **Backup** | **Content** | **Size** | **Time** |
| Lexicon Global | ^LEX | 1.3 GB | 20 to 50 minutes |
| ICD Diagnosis | ^ICD9 | 53 MB | 1 to 11 minutes |
| ICD Procedure | ^ICD0 | 9 MB | 1 to 8 minutes |
| Total Backup |  | 1.4 GB | 22 to 69 minutes |
|  | | | |
| **Host Files** | **Content** | **Size** | **Time** |
| FTP | ICD\_18\_57.KID | 2.4 MB | 4 to 10 seconds |
| FTP | ICD\_18\_57.GBL | 1.5 GB | 40 to 75 minutes |
| Global Restore ^%GI | ^LEXM | 1.4 GB | 25 to 50 minutes |
| Total Data |  | 2.5 GB | 65 to 125 minutes |
|  | | | |
| **KIDS Install** | **Content** |  | **Time** |
| Install #1 | ICD\*18.0\*57 |  | .1 to 1 minutes |
| Install #2 | LEX\*2.0\*80 |  | 13 to 124 minutes |
| Total |  |  | 13 to 125 minutes |
|  | | | |
| **Total Estimated Time** |  |  | 1.75 to 5.25 hours |

The wide range of install times can be caused by the number of users on the system, system activity and the type of system (UNIX/OpenVMS).

### Install during non-peak hours

It is recommended that this patch be installed during non-peak hours. During the installation, the ICD DIAGNOSIS file #80 and ICD OPERATION/PROCEDURE file #80.1, will not exist; these files will be deleted by the pre-install. The KIDS build will install the new data dictionaries. Finally, the post-install routines will re- populate these files with both ICD-9 and ICD-10 data.

### Users Must be off of the System

Users must be off of the system during the installation of the KIDS distribution. Applications, particularly clinical and fiscal applications that use the ICD Diagnosis and Procedure, could encounter significant errors, if exercised during the install.

The following steps may be completed in preparation for the installation with users still on the system:

FTP Software Retrieval Backup Preparation Backup Globals

Placing TaskMan in a Wait State Load Data from Global Host File Verify Environment

Distribution Load

### Documentation Retrieval

Updated documentations describing the functionality introduced by this patch is available in the [ANONYMOUS.SOFTWARE] directories at the following Internet addresses:

|  |  |
| --- | --- |
| **Preferred or Specific Server** | **Internet address** |
| First available ftp server | REDACTED <-- preferred |
| Albany | REDACTED |
| Hines | REDACTED |
| Salt Lake City | REDACTED |

Below is a list of the documentation files related to this patch and available via the FTP sites listed above:

|  |  |  |
| --- | --- | --- |
| **Document File Description** | **File Name** | **Protocol** |
| ICD Technical Manual | ICD\_18\_57\_ICDTM.PDF | binary |
| Lexicon Technical Manual | ICD\_18\_57\_LEXTM.PDF | binary |
| Lexicon User Manual | ICD\_18\_57\_LEXUM.PDF | binary |

After this patch is released, the updated manuals may also be retrieved from the Internet at <http://www.va.gov/vdl>

### FTP Software Retrieval

|  |  |  |
| --- | --- | --- |
| **Host File** | **File Name** | **FTP Protocol** |
| KIDS Distribution | ICD\_18\_57.KID | ASCII |
| Data Host File | ICD\_18\_57.GBL | ASCII |
| Installation Guide | ICD\_18\_57\_IG.PDF | Binary |

These files may be downloaded directly from the following FTP servers:

|  |  |  |
| --- | --- | --- |
|  | **FTP Server** | **Internet address** |
| \* | Preferred Server | REDACTED <-- |
|  | Albany | REDACTED |
|  | Hines | REDACTED |
|  | Salt Lake City | REDACTED |

\* The preferred server download.vista.med.va.gov will transmit the file from the first available FTP server. Files are available in the ANONYMOUS.SOFTWARE directory.

### Estimated FTP times:

|  |  |  |  |
| --- | --- | --- | --- |
| ICD\_18\_57\_IG.PDF | 926 KB | 2 to | 5 seconds |
| ICD\_18\_57\_DISK\_REQ.PDF | 220 KB | 1 to | 3 seconds |
| ICD\_18\_57.KID | 2.4 MB | 4 to | 10 seconds |
| ICD\_18\_57.GBL | 1.5 GB | 40 to | 75 minutes |

### Backup Preparation

Before backing up the data in the ^LEX global, first clear out the UNRESOLVED NARRATIVE file 757.06. This will prevent the backup procedure from encountering a control character and aborting in error. At the programmer prompt, issue the following command to remove the control characters:

### >D CLR^LEXAR7

### Backup Globals

Create a backup of the following global files before continuing:

|  |  |  |
| --- | --- | --- |
| Lexical Files | #757-757.41 | ^LEX |
| ICD DIAGNOSIS File | #80 | ^ICD9 |
| ICD OPERATION/PROCEDURE File | #80.1 | ^ICD0 |

These backup files may get as large as 1.4 gigabytes. Make sure space is available before proceeding. It should take from 22 to 69 minutes to create the backup files. Use

the utility ^%GO for non-subscripted globals. When prompted for a global, enter the global root (global name only, no open parenthesis, no file number, and no commas, as shown below). Example:

|  |  |
| --- | --- |
| **Enter** | **To create a Backup copy of:** |
| ^LEX | Lexical Files |
| ^LEXT | Lexicon Subset Definitions and User Defaults |
| ^ICD9 | ICD DIAGNOSIS File |
| ^ICD0 | ICD OPERATION/PROCEDURE File |

### Place TaskMan in a Wait State for the Installation

TaskMan must remain running but in a WAIT state for the duration of the KIDS installation. Once the install is complete, restore TaskMan by removing TaskMan from a WAIT state.

### Load Data from Global Host File

Install the data from the global host file ICD\_18\_57.GBL. This file contains the Lexicon Utility's import global ^LEXM. This global is approximately 1.4 gigabytes in size. Make sure there is sufficient space available to load this global with journaling on. The loading of the global should take from 25 to 50 minutes. From the Programmer prompt, execute the following routine:

>D ^%GI

Global input

Device: VA5$:[ANONYMOUS.SOFTWARE]ICD\_18\_57.GBL

Parameters? "RS" =>

Globals were saved on 17 Jan 2014 3:32 PM Cache with description: ICD\*18.0\*57/LEX\*2.0\*80 Data

Input option: A

^LEXM

### Environment

Set up user and IO variables (D ^XUP) for programmer access. Verify that DUZ, DUZ(“AG”), DT, DTIME, and U are defined and that DUZ(0)=”@”.

### Distribution Load:

Load the KIDS Distribution from the host file ICD\_18\_57.KID. This KIDS file is a multi-package distribution file that contains the following KIDS builds with the specified install order:

|  |  |
| --- | --- |
| Install Order | KIDS Build |
| 1 | ICD\*18.0\*57 |
| 2 | LEX\*2.0\*80 |

Environment Check:

This distribution has an "all or nothing" environment check. The environment check routines for both builds must pass for the install to continue. Required key elements are:

|  |  |
| --- | --- |
| Code Set Versioning (CSV) | 2003 |
| Code Text Descriptors (CTD) | 2004 |
| Query Options (LEXQ) | 2009 |
| Latest DRG Grouper Updates and Fixes | 2011 |
| Latest Code Set Updates | 2013 |

### RECOMMENDATION: Users may be on the system up to this point

To limit the down time, it is recommended that all steps up to this point, including the backup preparation, global backup, global load, environment setup and the KIDS distribution load be done with users on the system. Users must be taken off the system at this point. Applications, particularly clinical and fiscal applications that use the ICD Diagnosis and Procedure, could encounter significant errors if exercised during the install.

### Inhibit Logons during the KIDS Installation

During the KIDS install when asked "Want KIDS to INHIBIT LOGONs during the install?" make sure to respond with “Yes”.

### Installation will temporarily delete files 80 and 80.1

This install will completely delete the data dictionaries and data for both the ICD DIAGNOSIS file #80 and the ICD OPERATION/PROCEDURE file #80.1.

### KIDS Installation

Install the patch using the KIDS Installation Menu action "Install Package(s)" and the install name ICD\*18.0\*57.

During the environment check, you will be asked if you wish to continue. If the account is not mapped to another namespace, or if the account is mapped to another namespace but that namespace is also scheduled to receive this patch, then respond 'YES' to the prompt "Do you wish to continue?"

The environment check will run a checksum on the incoming data to ensure that the data file received via FTP and loaded is identical to the distribution data. This checksum will run about 5-20 minutes depending on your system.

Installation questions:

Respond "**Yes**" at the "Want KIDS to Rebuild Menu Trees upon Completion of Install?" prompt.

Respond "**Yes**" at the "Want KIDS to INHIBIT LOGONs during the install?" prompt.

Respond "**NO**" at the "Want to DISABLE Scheduled Options, Menu Options, and Protocols?" prompt.

The KIDS install should take from 13 – 125 minutes.

### Post-installation Cleanup

The Environment Check routines ICD1857 and LEX2080 and the Post-Install routines ICD1857P, LEX2080A, LEX2080B, LEX2080C, and LEX2080P should be deleted

using the KERNEL option 'Delete Routines' [XTRDEL] upon completion of the installation.

### Restore TaskMan from the Wait State

Restore TaskMan by removing TaskMan from a WAIT state.

# APPENDIX A – Captured Install

## Load Export Global ^LEXM

>D GL D ^%GI

Global input

Device: VA5$:[ANONYMOUS.SOFTWARE]ICD\_18\_57.GBL

Parameters? "RS" =>

Globals were saved on 17 Jan 2014 3:32 PM Cache with description: ICD\*18.0\*57/LEX\*2.0\*80 Data

Input option: A

^LEXM

### Captured Times:

Start: 04/19/2014 15:08:35

Finish: 04/19/2014 15:33:31

Elapsed: 00:24:56

## Load KIDS Distribution

Select Installation Option: Load a Distribution Enter a Host File: VA5$:[BETA]ICD\_18\_57.KID

KIDS Distribution saved on Apr 18, 2014@18:29:04 Comment: ICD\*18.0\*57/LEX\*2.0\*80 Install

This Distribution contains Transport Globals for the following Package(s): ICD\*18.0\*57

LEX\*2.0\*80

Distribution OK!

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

Build ICD\*18.0\*57 has an Environmental Check Routine Want to RUN the Environment Check Routine? YES//

ICD\*18.0\*57

Will first run the Environment Check Routine, ICD1857 Checking for ICD Version installations

ICD 18.0 installed 10/20/2000

Checking for Released

ICD\*18.0\*6 09/24/2003 Installed 09/29/2003 CSV ICD\*18.0\*12 10/08/2004 Installed 10/11/2004 CTD

ICD\*18.0\*15 06/09/2005 Installed 06/13/2005 Legacy APIs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ICD\*18.0\*29 | 11/15/2007 | Installed | 11/19/2007 | Legacy APIs |  |
| LEX\*2.0\*81 | 02/14/2012 | Installed | 02/14/2012 | Fix Cross-Reference |
| PSO\*7.0\*404 | 08/14/2012 | Installed | 01/28/2013 | Global Read of ICD | files |
| ONC\*2.11\*56 | 09/27/2012 | Installed | 01/28/2013 | Global Read of ICD | files |
| RA\*5.0\*112 | 04/17/2013 | Installed | 04/24/2013 | Global Read of ICD | files |
| ICD\*18.0\*62 | 05/01/2013 | Installed | 02/13/2013 | DRG Grouper Fixes |  |
| GMPL\*2.0\*43 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD | files |
| TIU\*1.0\*267 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD | files |
| ICD\*18.0\*69 | 06/21/2013 | Installed | 06/22/2013 | DRG Grouper Fixes |  |
| DG\*5.3\*870 | 07/15/2013 | Installed | 07/17/2013 | Global Read of ICD files | |
| IBD\*3.0\*64 | 09/03/2013 | Installed | 07/19/2013 | Global Read of ICD files | |
| LR\*5.2\*429 | 09/18/2013 | Installed | 10/24/2013 | Global Read of ICD files | |
| ACKQ\*3.0\*22 | 12/12/2013 | Installed | 12/19/2013 | Global Read of ICD files | |
| LEX\*2.0\*94 | 01/14/2014 | Installed | 01/23/2014 | FY14 2nd Qtr Update | |

Checking DEVCUR ICD Data Dictionary/Global/Data Status: Data Dictionary:

Remnants of the legacy ICD Data Dictionary found ICD-9/ICD-10 Data Dictionary does not exist

Global:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Global Name | # | Root | Patched | Updated |
| ICD DIAGNOSIS | 80 | ^ICD9( | ICD\*18.0\*66 | 10/01/2012 |
| ICD OPERATION/PROCEDURE | 80.1 | ^ICD0( | ICD\*18.0\*73 | 10/01/2013 |

Data:

Legacy ICD-9 Updated ICD-10

Data Type Data Format Data Format ICD Diagnosis Data Yes No

ICD Procedure Data Yes No

WARNING WARNING WARNING WARNING WARNING WARNING WARNING

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

\* \*

* This Install will delete both the ICD-9 Data Dictionary and data in \*
* files #80 and #80.1. It will then install a new Data Dictionary \*
* for files #80 and #80.1. The new Data Dictionary will accommodate \*
* both the ICD-9 and ICD-10 coding systems. The new data will be \*
* installed by the accompanying Lexicon patch LEX\*2.0\*80. These \*
* changes will affect this namespace and any other namespace that \*
* the ^ICD9 and ^ICD0 globals are mapped to. If your current \*
* namespace is mapped to another namespace, make sure the other \*
* namespace is also scheduled to be updated by this patch before \*
* continuing. \*

\* \*

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* Do you wish to continue? (Y/N) YES

Environment for patch/build ICD\*18.0\*57 is ok LEX\*2.0\*80

Will first run the Environment Check Routine, LEX2080

Checking for Released

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| LEX\*2.0\*25 | 09/24/2003 | Installed | 09/29/2003 | CSV |  |
| LEX\*2.0\*30 | 10/08/2004 | Installed | 10/11/2004 | CTD |
| LEX\*2.0\*62 | 05/06/2009 | Installed | 05/11/2009 | Queries |
| LEX\*2.0\*81 | 02/14/2012 | Installed | 02/14/2012 | Fix Cross-Reference |
| PSO\*7.0\*404 | 08/14/2012 | Installed | 01/28/2013 | Global Read of ICD | files |
| ONC\*2.11\*56 | 09/27/2012 | Installed | 01/28/2013 | Global Read of ICD | files |
| RA\*5.0\*112 | 04/17/2013 | Installed | 04/24/2013 | Global Read of ICD | files |
| ICD\*18.0\*62 | 05/01/2013 | Installed | 02/13/2013 | DRG Grouper Fixes |  |
| GMPL\*2.0\*43 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD | files |
| TIU\*1.0\*267 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD | files |
| ICD\*18.0\*69 | 06/21/2013 | Installed | 06/22/2013 | DRG Grouper Fixes |  |
| DG\*5.3\*870 | 07/15/2013 | Installed | 07/17/2013 | Global Read of ICD | files |
| IBD\*3.0\*64 | 09/03/2013 | Installed | 07/19/2013 | Global Read of ICD | files |
| LR\*5.2\*429 | 09/18/2013 | Installed | 10/24/2013 | Global Read of ICD | files |
| ACKQ\*3.0\*22 | 12/12/2013 | Installed | 12/19/2013 | Global Read of ICD | files |
| LEX\*2.0\*94 | 01/14/2014 | Installed | 01/23/2014 | FY14 2nd Qtr Update |  |

Environment for patch/build LEX\*2.0\*80 is ok

Use INSTALL NAME: ICD\*18.0\*57 to install this Distribution.

### Captured Times:

Start: 04/19/2014 11:53:40

Finish: 04/19/2014 11:53:51

Elapsed: 00:00:11

## Install KIDS Distribution

Select Installation Option: Install Package(s)

Select INSTALL NAME: ICD\*18.0\*57 4/19/14@11:53:44

=> ICD\*18.0\*57/LEX\*2.0\*80 Install ;Created on Apr 18, 2014@18:29:04

This Distribution was loaded on Apr 19, 2014@11:53:44 with header of ICD\*18.0\*57/LEX\*2.0\*80 Install ;Created on Apr 18, 2014@18:29:04 It consisted of the following Install(s):

ICD\*18.0\*57 LEX\*2.0\*80

Checking Install for Package ICD\*18.0\*57

Will first run the Environment Check Routine, ICD1857 Checking for ICD Version installations

ICD 18.0 installed 10/20/2000

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Checking for | Released |  | | | |
| ICD\*18.0\*6 | 09/24/2003 | Installed | 09/29/2003 | CSV |  |
| ICD\*18.0\*12 | 10/08/2004 | Installed | 10/11/2004 | CTD |  |
| ICD\*18.0\*15 | 06/09/2005 | Installed | 06/13/2005 | Legacy APIs |  |
| ICD\*18.0\*29 | 11/15/2007 | Installed | 11/19/2007 | Legacy APIs |  |
| LEX\*2.0\*81 | 02/14/2012 | Installed | 02/14/2012 | Fix Cross-Reference |  |
| PSO\*7.0\*404 | 08/14/2012 | Installed | 01/28/2013 | Global Read of ICD | files |
| ONC\*2.11\*56 | 09/27/2012 | Installed | 01/28/2013 | Global Read of ICD | files |
| RA\*5.0\*112 | 04/17/2013 | Installed | 04/24/2013 | Global Read of ICD | files |
| ICD\*18.0\*62 | 05/01/2013 | Installed | 02/13/2013 | DRG Grouper Fixes |  |
| GMPL\*2.0\*43 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD | files |
| TIU\*1.0\*267 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD | files |
| ICD\*18.0\*69 | 06/21/2013 | Installed | 06/22/2013 | DRG Grouper Fixes |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DG\*5.3\*870 | 07/15/2013 | Installed | 07/17/2013 | Global Read of ICD files |
| IBD\*3.0\*64 | 09/03/2013 | Installed | 07/19/2013 | Global Read of ICD files |
| LR\*5.2\*429 | 09/18/2013 | Installed | 10/24/2013 | Global Read of ICD files |
| ACKQ\*3.0\*22 | 12/12/2013 | Installed | 12/19/2013 | Global Read of ICD files |
| LEX\*2.0\*94 | 01/14/2014 | Installed | 01/23/2014 | FY14 2nd Qtr Update |

Checking DEVCUR ICD Data Dictionary/Global/Data Status: Data Dictionary:

Remnants of the legacy ICD Data Dictionary found ICD-9/ICD-10 Data Dictionary does not exist

Global:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Global Name | # | Root | Patched | Updated |
| ICD DIAGNOSIS | 80 | ^ICD9( | ICD\*18.0\*66 | 10/01/2012 |
| ICD OPERATION/PROCEDURE | 80.1 | ^ICD0( | ICD\*18.0\*73 | 10/01/2013 |

Data:

Legacy ICD-9 Updated ICD-10

Data Type Data Format Data Format ICD Diagnosis Data Yes No

ICD Procedure Data Yes No

WARNING WARNING WARNING WARNING WARNING WARNING WARNING

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

\* \*

* This Install will delete both the ICD-9 Data Dictionary and data in \*
* files #80 and #80.1. It will then install a new Data Dictionary \*
* for files #80 and #80.1. The new Data Dictionary will accommodate \*
* both the ICD-9 and ICD-10 coding systems. The new data will be \*
* installed by the accompanying Lexicon patch LEX\*2.0\*80. These \*
* changes will affect this namespace and any other namespace that \*
* the ^ICD9 and ^ICD0 globals are mapped to. If your current \*
* namespace is mapped to another namespace, make sure the other \*
* namespace is also scheduled to be updated by this patch before \*
* continuing. \*

\* \*

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* Do you wish to continue? (Y/N) YES

Environment for patch/build ICD\*18.0\*57 is ok Install Questions for ICD\*18.0\*57

Incoming Files:

1. ICD DIAGNOSIS

Note: You already have the 'ICD DIAGNOSIS' File.

* 1. ICD OPERATION/PROCEDURE

Note: You already have the 'ICD OPERATION/PROCEDURE' File.

80.4 ICD CODING SYSTEMS (including data)

1. DRG DIAGNOSIS IDENTIFIER CODES (including data)
   1. DRG PROCEDURE IDENTIFIER CODES (including data)

82.13 DRG CC EXCLUSIONS Checking Install for Package LEX\*2.0\*80

Will first run the Environment Check Routine, LEX2080

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Checking for | Released |  | | |
| LEX\*2.0\*25 | 09/24/2003 | Installed | 09/29/2003 | CSV |
| LEX\*2.0\*30 | 10/08/2004 | Installed | 10/11/2004 | CTD |
| LEX\*2.0\*62 | 05/06/2009 | Installed | 05/11/2009 | Queries |
| LEX\*2.0\*81 | 02/14/2012 | Installed | 02/14/2012 | Fix Cross-Reference |
| PSO\*7.0\*404 | 08/14/2012 | Installed | 01/28/2013 | Global Read of ICD files |
| ONC\*2.11\*56 | 09/27/2012 | Installed | 01/28/2013 | Global Read of ICD files |
| RA\*5.0\*112 | 04/17/2013 | Installed | 04/24/2013 | Global Read of ICD files |
| ICD\*18.0\*62 | 05/01/2013 | Installed | 02/13/2013 | DRG Grouper Fixes |
| GMPL\*2.0\*43 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD files |
| TIU\*1.0\*267 | 05/14/2013 | Installed | 05/15/2013 | Global Read of ICD files |
| ICD\*18.0\*69 | 06/21/2013 | Installed | 06/22/2013 | DRG Grouper Fixes |
| DG\*5.3\*870 | 07/15/2013 | Installed | 07/17/2013 | Global Read of ICD files |
| IBD\*3.0\*64 | 09/03/2013 | Installed | 07/19/2013 | Global Read of ICD files |
| LR\*5.2\*429 | 09/18/2013 | Installed | 10/24/2013 | Global Read of ICD files |
| ACKQ\*3.0\*22 | 12/12/2013 | Installed | 12/19/2013 | Global Read of ICD files |
| LEX\*2.0\*94 | 01/14/2014 | Installed | 01/23/2014 | FY14 2nd Qtr Update |

I will now check the protection on ^LEX, ^ICD9 and ^ICD0 Globals. If you get an ERROR, you will need to change the protection on these globals to allow read/write as indicated:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cache systems | Owner  RWD | Group  RW | World  RW | Network  RWD |
| Checking: |  | | |  |
| ^LEX(\* | Lexicon | | | 757-757.41 |
| ^ICD9( | ICD Diagnosis | | | 80 |
| ^ICD0( | ICD Operation/Procedure | | | 80.1 |

--> ok

Running checksum routine on the ^LEXM import global, please wait

................................................................

Checksum is ok

Environment for patch/build LEX\*2.0\*80 is ok Install Questions for LEX\*2.0\*80

Incoming Files:

* 1. CODES

Note: You already have the 'CODES' File.

* 1. CODING SYSTEMS

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

757.033 CHARACTER POSITIONS

757.31 DISPLAYS (including data) Note: You already have the 'DISPLAYS' File. I will OVERWRITE your data with mine.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// Want KIDS to INHIBIT LOGONs during the install? NO// YES

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//

Enter the Device you want to print the Install messages. Enter a '^' to abort the install.

DEVICE: HOME// ;P-OTHER HOME

Install Started for ICD\*18.0\*57 :

Apr 19, 2014@12:17:14

Build Distribution Date: Apr 18, 2014

Installing Routines:...........................................

Apr 19, 2014@12:17:15

Running Pre-Install Routine: PRE^ICD1857P. Deleting the Data Dictionary and Data for:

ICD DIAGNOSIS file #80 done

ICD OPERATION/PROCEDURE file #80.1 done

Installing Data Dictionaries: .......

Apr 19, 2014@12:17:20

Installing Data:

Apr 19, 2014@12:17:22

Running Post-Install Routine: POST^ICD1857P. Updating ICD files

ICD DIAGNOSIS file #80

ICD OPERATION/PROCEDURE file #80.1

Updating Routine file......

Updating KIDS files.......

ICD\*18.0\*57 Installed.

Apr 19, 2014@12:17:22

Not a production UCI NO Install Message sent

Install Started for LEX\*2.0\*80 :

Apr 19, 2014@12:17:22

Build Distribution Date: Apr 18, 2014 Installing

Routines:...........................................................

..............

Apr 19, 2014@12:17:25

Installing Data Dictionaries: .....

Apr 19, 2014@12:17:25

Installing Data:

Apr 19, 2014@12:17:25

Installing PACKAGE COMPONENTS:

Installing OPTION.....

Apr 19, 2014@12:17:25

Running Post-Install Routine: POST^LEX2080P. Updating ICD displays to include ICD-10

Installing Data for patch LEX\*2.0\*80

Updating files using export global created Jan 17, 2014 at 08:47:28 Updating ICD-9-CM with patch/build ICD\*18.0\*57

To version 18.0 revision 57 dated Oct 01, 2014

ICD Diagnosis File 80

....................................................................

ICD Operation/procedure File 80.1

....................................................................

ICD Coding Systems File 80.4

.....................

Updating Lexicon with patch/build LEX\*2.0\*80 To version 2.0 revision 80 dated Oct 01, 2014

Major Concept Map File 757

....................................................................

Concept Usage File 757.001

....................................................................

Expressions File 757.01

....................................................................

Codes File 757.02

....................................................................

Coding Systems File 757.03

....................................................................

Character Positions File 757.033

....................................................................

Excluded Words File 757.04

....................................................................

Replacement Words File 757.05

....................................................................

Semantic Map File 757.1

....................................................................

Subset Definitions File 757.2

....................................................................

Subsets File 757.21

....................................................................

Look-up Screens File 757.3

....................................................................

Displays File 757.31

....................................................................

Data Update: Installation of data completed successfully Started: Apr 19, 2014 12:17:25

Finished: Apr 19, 2014 13:27:26

Elapsed: 01:10:01

Post-Install Summary Queued Task #1812290

Checking DEVCUR ICD Data Dictionary/Global/Data Status: Data Dictionary:

Legacy ICD Data Dictionary does not exist ICD Data Dictionary updates for ICD-10 found

Lexicon Data Dictionary updates for ICD-10 found Global:

|  |  |  |  |
| --- | --- | --- | --- |
| Global Name | File # | Patched | Effective |
| ICD DIAGNOSIS | 80 | ICD\*18.0\*57 | 10/01/2014 |
| ICD OPERATION/PROCEDURE | 80.1 | ICD\*18.0\*57 | 10/01/2014 |
| ICD CODING SYSTEMS | 80.4 | ICD\*18.0\*57 | 10/01/2014 |
| MAJOR CONCEPT MAP | 757 | LEX\*2.0\*80 | 10/01/2014 |
| CONCEPT USAGE | 757.001 | LEX\*2.0\*80 | 10/01/2014 |
| EXPRESSIONS | 757.01 | LEX\*2.0\*80 | 10/01/2014 |
| CODES | 757.02 | LEX\*2.0\*80 | 10/01/2014 |
| CODING SYSTEMS | 757.03 | LEX\*2.0\*80 | 10/01/2014 |
| CHARACTER POSITIONS | 757.033 | LEX\*2.0\*80 | 10/01/2014 |
| SEMANTIC MAP | 757.1 | LEX\*2.0\*80 | 10/01/2014 |
| LOOK-UP SCREENS | 757.3 | LEX\*2.0\*80 | 10/01/2014 |
| DISPLAYS | 757.31 | LEX\*2.0\*80 | 10/01/2014 |

Data:

Legacy ICD-9 Updated ICD-10

Coding System Data Data Format Data Format ICD Diagnosis Data No Yes

ICD Procedure Data No Yes

Lexicon Data ICD-9 ICD-10

ICD Diagnosis Yes Yes

ICD Procedures Yes Yes Repair indexes in files #757.01/757.21 tasked (#1812292)

Updating Routine file......

Updating KIDS files.......

LEX\*2.0\*80 Installed.

Apr 19, 2014@13:31:37

Not a production UCI NO Install Message sent Call MENU rebuild

Starting Menu Rebuild: Apr 19, 2014@13:31:39 Collecting primary menus in the New Person file...

Primary menus found in the New Person file

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| OPTION | NAME | MENU TEXT | | # OF  USERS | LAST  USED | LAST  BUILT |
| EVE | |  | Systems Manager Menu | 188 | 03/15/14 | 03/11/14 |
| XUPROG | |  | Programmer Options | 3 | 03/12/14 | 03/11/14 |
| XUCORE | |  | Core Applications | 5 | 09/15/06 | 03/11/14 |
| LRMENU | |  | Laboratory DHCP Menu | 1 |  | 03/11/14 |
| PSO MANAGER | |  | Outpatient Pharmacy Manager | 1 | 07/21/00 | 03/11/14 |
| XMUSER | |  | MailMan Menu | 5 | 12/27/98 | 03/11/14 |
| ORMGR | |  | CPRS Manager Menu | 26 | 08/06/13 | 03/11/14 |
| OR MAIN MENU | | NURSE | Nurse Menu | 1 | 04/19/07 | 03/11/14 |
| TIU MAIN MENU MRT | | | Text Integration Utilitie... | 2 | 02/11/14 | 03/11/14 |
| TIU MAIN MENU MGR | | | Text Integration Utilitie... | 1 | 10/19/09 | 03/11/14 |
| PXRM MANAGERS MENU | | | Reminder Managers Menu | 1 | 01/24/09 | 03/11/14 |
| ZZANALYST | | | Analyst Menu | 1 | 04/18/07 | 03/11/14 |
| EVE + VPE | | | EVE Menu Plus VPE Options | 1 | 06/04/04 | 03/11/14 |

Building secondary menu trees....

Merging. done.

Menu Rebuild Complete: Apr 19, 2014@13:31:52

### Captured Times:

Start: 04/19/2014 12:01:09

Finish: 04/19/2014 13:31:54

Elapsed: 01:30:45

## Post-Install Message (example)

Subj: LEX\*2.0\*80 Installation [#450428] 04/19/14@13:30 16 lines From: POSTMASTER In 'IN' basket. Page 1 \*New\*

ICD-10 Implementation

=====================

As of: Apr 19, 2014 13:30:17

In Account: [VHA,ROU] (Production)

Maint By: Anonymous, User (555) 555-5555 Build: LEX\*2.0\*80

Host File: ICD\_18\_57.GBL

|  |  |  |
| --- | --- | --- |
| Started: | Apr 19, 2014 | 12:17:25 |
| Finished: | Apr 19, 2014 | 13:30:17 |
| Elapsed: | 01:12:52 |  |

Data: Installation of data completed successfully

## Cross-Reference Repair Message (example)

NOTE: Re-Indexing times and totals may vary.

Subj: Repair Major Word Indexes [#450430] 04/19/14@14:50 19 lines From: POSTMASTER In 'IN' basket. Page 1 \*New\*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Re-Index Repair |  | Date | |  | Start |  | Finish |  | Elapsed |
| Build 'AWRD' Word Index Replace 'AWRD' Word Index |  | 04/19/2014 " " | |  | 13:30:21  13:56:20 |  | 13:56:20  14:00:49 |  | 00:25:59  00:04:29 |
| 133991 Words  4568491 'AWRD' Index Nodes  Build 'ASL' String Length Index | | " " 14:00:49 | | | | 14:12:27 | | 00:11:38 | |
| Replace 'ASL' String Length Index | | " " 14:12:27 | | | | 14:13:20 | | 00:00:53 | |
| 472681 'ASL' Index Nodes  Expression Indexes | " " 13:30:21 | | | | | 14:13:21 | | 00:43:00 | |
| Build 'ASUB' Word Index | " " 14:13:21 | | | | | 14:46:36 | | 00:33:15 | |
| Replace 'ASUB' Word Index | " " 14:46:36 | | | | | 14:50:23 | | 00:03:47 | |
| 45 Subsets 220316 Words  4701056 Subset Index Nodes Subset Indexes | " | | " | 14:13:21 | | 14:50:24 | | 00:37:03 | |
| Total Time to Repair Indexes |  | 04/19/2014 | |  | 13:30:21 |  | 14:50:24 |  | 01:20:03 |

# APPENDIX B – Checksums

## Multi-Package Distribution Routine Summary

### ICD\*18.0\*57 Checksums

The second line of each of these routines will look like:

<tab>;;18.0;DRG Grouper;\*\*[PATCH LIST]\*\*;Oct 20, 2000

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Routine |  | Checksums Before Patch |  | Checksums After Patch |  | Patch List (2nd Line) |
| ICD1857 |  | <Env Chk> |  | 176584453 |  | 57 |
| ICD1857P |  | <Pre/Post> |  | 10496780 |  | 57 |
| ICD0IDX |  | 11419052 |  | <Deleted> |  |  |
| ICD9IDX |  | 11648583 |  | <Deleted> |  |  |
| ICDAPIU |  | 36736755 |  | 1779997 |  | 6,11,12,15,57 |
| ICDCOD |  | 5243995 |  | 5702581 |  | 7,57 |
| ICDCODE |  | 75863718 |  | 17241457 |  | 6,12,14,29,57 |
| ICDDIC |  | <new> |  | 40496787 |  | 57 |
| ICDDICA |  | <new> |  | 99850836 |  | 57 |
| ICDDRG |  | 27872352 |  | 34375895 |  | 2,7,10,14,20,31,37,57 |
| ICDDRGM |  | 25118508 |  | 31028651 |  | 7,36,57 |
| ICDEX |  | <new> |  | 73946334 |  | 57 |
| ICDEXA |  | <new> |  | 28447306 |  | 57 |
| ICDEXA2 |  | <new> |  | 66742760 |  | 57 |
| ICDEXA3 |  | <new> |  | 159565550 |  | 57 |
| ICDEXC |  | <new> |  | 108523477 |  | 57 |
| ICDEXC2 |  | <new> |  | 74960854 |  | 57 |
| ICDEXC3 |  | <new> |  | 75483213 |  | 57 |
| ICDEXC4 |  | <new> |  | 11534357 |  | 57 |
| ICDEXD |  | <new> |  | 28893974 |  | 57 |
| ICDEXD2 |  | <new> |  | 91571446 |  | 57 |
| ICDEXD3 |  | <new> |  | 14191421 |  | 57 |
| ICDEXD4 |  | <new> |  | 78522708 |  | 57 |
| ICDEXD5 |  | <new> |  | 63389361 |  | 57 |
| ICDEXH |  | <new> |  | 89157219 |  | 57 |
| ICDEXLK |  | <new> |  | 199827276 |  | 57 |
| ICDEXLK2 |  | <new> |  | 168472768 |  | 57 |
| ICDEXLK3 |  | <new> |  | 98024730 |  | 57 |
| ICDEXLK4 |  | <new> |  | 25896513 |  | 57 |
| ICDEXLK5 |  | <new> |  | 75373289 |  | 57 |
| ICDEXLK6 |  | <new> |  | 83204817 |  | 57 |
| ICDEXS |  | <new> |  | 149154345 |  | 57 |
| ICDEXS2 |  | <new> |  | 4261248 |  | 57 |
| ICDGTDRG |  | 50975145 |  | 3954114 |  | 7,12,14,17,57 |
| ICDID |  | 14387573 |  | 42005252 |  | 12,15,57 |
| ICDIDX |  | <new> |  | 81806882 |  | 57 |
| ICDIDX2 |  | <new> |  | 39101671 |  | 57 |
| ICDREF |  | 1396078 |  | 499599 |  | 14,17,57 |
| ICDSAPI |  | <new> |  | 3564588 |  | 57 |

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| --- | --- | --- | --- |
| ICDSUPT | 4162240 | 4754457 | 6,57 |
| ICDTOKN | <new> | 33213278 | 57 |
| ICDXCODE | <new> | 7083997 | 57 |

### LEX\*2.0\*80 Checksums

The second line of each of these routines will look like:

<tab>;;2.0;<package name>;\*\*[PATCH LIST]\*\*;Sep 23, 1996

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Routine | | Checksums Before Patch | | Checksums After Patch | | Patch | | List | (2nd | Line) |
|  | LEX2080 |  | <Env Chk> |  | 184435059 |  | 80 | | | |
|  | LEX2080P |  | <Post-Ins> |  | 91320913 |  | 80 | | | |
|  | LEX10CS |  | <new> |  | 72383021 |  | 80 | | | |
|  | LEX10CS2 |  | <new> |  | 50802408 |  | 80 | | | |
|  | LEX10CX |  | <new> |  | 90915734 |  | 80 | | | |
|  | LEX10CX2 |  | <new> |  | 27454248 |  | 80 | | | |
|  | LEX10CX3 |  | <new> |  | 97828924 |  | 80 | | | |
|  | LEX10CX4 |  | <new> |  | 37820297 |  | 80 | | | |
|  | LEX10CX5 |  | <new> |  | 45896269 |  | 80 | | | |
|  | LEX10DBC |  | <new> |  | 9636063 |  | 80 | | | |
|  | LEX10DBR |  | <new> |  | 8889238 |  | 80 | | | |
|  | LEX10DBT |  | <new> |  | 9014801 |  | 80 | | | |
|  | LEX10DL |  | <new> |  | 57481356 |  | 80 | | | |
|  | LEX10DLS |  | <new> |  | 50742305 |  | 80 | | | |
|  | LEX10DU |  | <new> |  | 116539995 |  | 80 | | | |
|  | LEX10DX |  | <new> |  | 28706888 |  | 80 | | | |
|  | LEX10PL |  | <new> |  | 120447479 |  | 80 | | | |
|  | LEX10PLA |  | <new> |  | 39916196 |  | 80 | | | |
|  | LEX10PLS |  | <new> |  | 85504731 |  | 80 | | | |
|  | LEX10PR |  | <new> |  | 47282338 |  | 80 | | | |
|  | LEX10TAX |  | <new> |  | 83701759 |  | 80 | | | |
|  | LEX2080A |  | <new> |  | 57341845 |  | 80 | | | |
|  | LEX2080B |  | <new> |  | 59256107 |  | 80 | | | |
|  | LEX2080C |  | <new> |  | 58859352 |  | 80 | | | |
|  | LEXA |  | 44698793 |  | 53072237 |  | 3,4,6,19,25,36,38,43,55,73, | | | |
|  |  |  |  |  |  |  | 80 | | | |
|  | LEXA1 |  | 38731910 |  | 69671285 |  | 3,4,6,11,15,38,55,73,80 | | | |
|  | LEXA2 |  | 535269 |  | 597135 |  | 38,80 | | | |
|  | LEXA3 |  | 15059941 |  | 15059941 |  | 1,4,80 | | | |
|  | LEXA4 |  | 21030061 |  | 22480783 |  | 3,6,15,80 | | | |
|  | LEXAB |  | 9544212 |  | 10463880 |  | 25,80 | | | |
|  | LEXABC |  | 46217187 |  | 68137439 |  | 4,25,26,29,38,73,51,80 | | | |
|  | LEXABC2 |  | 25816397 |  | 25634318 |  | 4,80 | | | |
|  | LEXAFIL |  | 205120 |  | 201610 |  | 80 | | | |
|  | LEXAL |  | 37971689 |  | 72078379 |  | 6,55,80 | | | |
|  | LEXAL2 |  | 12928118 |  | 14217830 |  | 80 | | | |
|  | LEXALK |  | 22806965 |  | 35871965 |  | 2,3,6,25,51,80 | | | |
|  | LEXAM |  | 15878015 |  | 18114833 |  | 80 | | | |
|  | LEXAMD |  | 24549577 |  | 28007514 |  | 6,25,80 | | | |
|  | LEXAMD2 |  | 2872185 |  | 2872185 |  | 6,80 | | | |
|  | LEXAR |  | 17442980 |  | 18722296 |  | 3,19,25,55,80 | | | |

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| --- | --- | --- | --- |
| LEXAR2 | 1018662 | 1200564 | 80 |
| LEXAR3 | 38300154 | 79678965 | 73,80 |
| LEXAR4 | 9905737 | 10464362 | 4,5,6,25,55,80 |
| LEXAR5 | 25152319 | 56192093 | 14,25,26,38,55,73,80 |
| LEXAR6 | 33720085 | 38407694 | 3,9,11,80 |
| LEXAR7 | 17047262 | 18786524 | 9,25,73,80 |
| LEXAS | 6614534 | 6614534 | 4,80 |
| LEXAS2 | 10917713 | 11730023 | 80 |
| LEXAS3 | 4196429 | 4196429 | 80 |
| LEXAS4 | 8439698 | 8439698 | 80 |
| LEXAS5 | 14441583 | 15308783 | 80 |
| LEXAS6 | 6676230 | 6676230 | 41,80 |
| LEXAS7 | 18643877 | 18643877 | 80 |
| LEXASC | 6679811 | 7966749 | 25,80 |
| LEXASO | 16929355 | 18758787 | 25,32,73,80 |
| LEXCODE | 38198808 | 71456026 | 25,73,80 |
| LEXDCC | 4957812 | 5534473 | 80 |
| LEXDCCC | 8352647 | 8993729 | 80 |
| LEXDCCS | 12310875 | 13152111 | 80 |
| LEXDCX | 4372991 | 4881405 | 80 |
| LEXDCXS | 20695673 | 21843767 | 80 |
| LEXDD1 | 22014117 | 25092584 | 80 |
| LEXDD2 | 3129195 | 3584925 | 80 |
| LEXDD3 | 947330 | 1122704 | 80 |
| LEXDD4 | 14098487 | 13932965 | 80 |
| LEXDDS | 2093495 | 2531478 | 80 |
| LEXDDSD | 8702123 | 9566423 | 80 |
| LEXDDSP | 14491280 | 15948891 | 80 |
| LEXDDSS | 2858762 | 3222865 | 80 |
| LEXDDT1 | 5416359 | 5978859 | 80 |
| LEXDDT2 | 4317509 | 4823705 | 80 |
| LEXDDTC | 1554828 | 1795542 | 80 |
| LEXDDTD | 1846548 | 2129676 | 80 |
| LEXDDTF | 13760824 | 14904532 | 80 |
| LEXDDTV | 3335880 | 3758286 | 80 |
| LEXDFL | 4960220 | 5442174 | 80 |
| LEXDFLC | 795201 | 911217 | 80 |
| LEXDFLS | 14832359 | 15732119 | 80 |
| LEXDFLT | 2054932 | 2257084 | 80 |
| LEXDFN | 15697638 | 17432462 | 6,80 |
| LEXDFN2 | 10551696 | 11535780 | 80 |
| LEXDFSB | 3384984 | 3384984 | 80 |
| LEXDFSE | 11756941 | 12795665 | 80 |
| LEXDFSI | 9333756 | 9975036 | 80 |
| LEXDFSO | 6471992 | 7103084 | 80 |
| LEXDFSS | 18377628 | 19790328 | 80 |
| LEXDFST | 6173810 | 6779396 | 80 |
| LEXDM | 14264609 | 15365543 | 81,80 |
| LEXDM2 | 12707166 | 14152696 | 80 |
| LEXDM3 | 2911195 | 3366699 | 80 |
| LEXDM4 | 30212363 | 31719160 | 4,80 |
| LEXDMG | 10098170 | 10875914 | 80 |
| LEXDMGO | 5510946 | 6104772 | 80 |
| LEXDMGS | <new> | 7121139 | 80 |

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| --- | --- | --- | --- |
| LEXDMGT | 13311302 | 14879684 | 80 |
| LEXDMGU | 19106674 | 17558143 | 80 |
| LEXDMGV | 12206347 | 10768836 | 80 |
| LEXDSV | 5732630 | 6361439 | 80 |
| LEXDVO | 4237055 | 4750248 | 80 |
| LEXDVOS | 13847911 | 14773585 | 80 |
| LEXEDF1 | 14571584 | 16274240 | 3,25,80 |
| LEXEDF2 | 21442230 | 23335121 | 80 |
| LEXERF | 6241374 | 6876897 | 80 |
| LEXERI | 25688427 | 28387082 | 80 |
| LEXHLP | 44256661 | 49116460 | 11,80 |
| LEXHLP2 | <new> | 43406586 | 80 |
| LEXIENV | 2220341 | <Deleted> |  |
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| LEXLK | 4258330 | 4772038 | 80 |
| LEXLK2 | 34120218 | 35967054 | 6,19,80 |
| LEXMTLU | 3910098 | 4465457 | 11,80 |
| LEXNDX1 | 13157193 | 15300301 | 80 |
| LEXNDX2 | 21432451 | 24352657 | 51,80 |
| LEXNDX3 | 9214968 | 10557269 | 80 |
| LEXNDX4 | 20468165 | 25651972 | 80 |
| LEXNDX5 | 6805423 | 7594232 | 80 |
| LEXNDX6 | 7394894 | 13564352 | 80 |
| LEXNDX8 | 33490445 | 57045957 | 25,73,80 |
| LEXPL | 18846088 | <Deleted> |  |
| LEXPLEM | 21438486 | <Deleted> |  |
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| LEXPLUP | 5493248 | <Deleted> |  |
| LEXPRNT | 14926711 | 16064767 | 80 |
| LEXQC | 101390114 | 5018665 | 62,80 |
| LEXQC2 | 14109806 | 13016948 | 62,80 |
| LEXQC3 | <new> | 22152952 | 80 |
| LEXQC4 | <new> | 47380274 | 80 |
| LEXQCM | 67014752 | 69421811 | 62,68,80 |
| LEXQCM2 | 58451026 | 59164466 | 62,80 |
| LEXQCP | 77088041 | 79602950 | 62,80 |
| LEXQCP2 | 56468860 | 57182153 | 62,80 |
| LEXQCPA | 9847253 | 9841880 | 62,80 |
| LEXQH | 19745844 | 20466600 | 62,80 |
| LEXQHL1 | 94982465 | 95304509 | 62,80 |
| LEXQHL2 | 92433013 | 90489365 | 62,80 |
| LEXQHL3 | 40808701 | 40434251 | 62,80 |
| LEXQHL4 | 101257381 | 100552373 | 62,80 |
| LEXQHL5 | 13324910 | 21983988 | 62,80 |
| LEXQHLM | 8941107 | 7914203 | 62,80 |
| LEXQID | 46340703 | 59190420 | 62,73,80 |

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| LEXQID2 | 36269222 | 35722447 | 62,73,80 |
| LEXQID3 | 61299678 | 74079700 | 62,80 |
| LEXQID4 | 62471424 | 67283614 | 62,80 |
| LEXQIDA | 55078060 | 51204614 | 62,80 |
| LEXQIP | 67055751 | 87751371 | 62,73,80 |
| LEXQIP2 | 18474806 | 10742392 | 62,80 |
| LEXQIP3 | 28550330 | 28040002 | 62,73,80 |
| LEXQIPA | 3508695 | 3640982 | 62,80 |
| LEXQL | 49347251 | 69016427 | 62,80 |
| LEXQL2 | 36280170 | 49164602 | 62,80 |
| LEXQL3 | 34226328 | 12608656 | 62,80 |
| LEXQL4 | <new> | 39546926 | 80 |
| LEXQM | 27832557 | 27832926 | 62,80 |
| LEXRX | 25440682 | 29831306 | 81,80 |
| LEXRXB | 52650110 | 53080223 | 81,80 |
| LEXRXC | 104836918 | 105521717 | 81,80 |
| LEXRXD | 72163787 | 72709975 | 81,80 |
| LEXRXD4 | 78250103 | 78250103 | 81,80 |
| LEXRXE | 59805790 | 60291807 | 81,80 |
| LEXRXF | 89637737 | 90798435 | 81,80 |
| LEXRXG | 75572745 | 76130411 | 81,80 |
| LEXRXXP | 22174903 | 22155217 | 81,80 |
| LEXRXXS | 124182348 | 125584554 | 81,80 |
| LEXRXXT3 | 2392111 | 2474933 | 81,80 |
| LEXSC | 3047995 | 3537512 | 80 |
| LEXSC2 | 8240546 | 9055298 | 11,80 |
| LEXSC3 | 9634238 | 10957166 | 80 |
| LEXSET | 11622540 | 17938997 | 25,80 |
| LEXSET2 | 18221774 | 18221774 | 6,80 |
| LEXSET3 | 12976280 | 12976280 | 6,80 |
| LEXSET4 | 3072931 | 3440677 | 80 |
| LEXSET5 | 22917951 | 25961242 | 6,11,80 |
| LEXSRC2 | 47664785 | 52534156 | 25,28,73,80 |
| LEXTOKN | <new> | 54550782 | 80 |
| LEXTOKN2 | <new> | 13220121 | 80 |
| LEXTOLKN | 38854621 | <Deleted> |  |
| LEXTRAN | 74420928 | 77492995 | 41,59,73,80 |
| LEXTRAN1 | 91365999 | 109851516 | 59,73,51,80 |
| LEXU | 21563695 | 137452070 | 2,6,9,15,25,36,73,51,80 |
| LEXU2 | <new> | 131844732 | 80 |
| LEXU3 | <new> | 65261771 | 80 |
| LEXU4 | <new> | 63972250 | 80 |
| LEXUH | <new> | 105430964 | 80 |
| LEXXFI | 53802032 | 61706578 | 32,46,49,41,59,73,80 |
| LEXXFI3 | 36032723 | 36033514 | 32,80 |
| LEXXFI4 | 23614617 | 23615408 | 32,80 |
| LEXXFI6 | 7377365 | 7378156 | 32,80 |
| LEXXFI7 | 41558940 | 40222921 | 32,49,80 |
| LEXXFI8 | 38145534 | 39455696 | 32,80 |
| LEXXFQ | 15590093 | 17747138 | 4,25,73,80 |
| LEXXGI | 41415628 | 55219661 | 4,25,26,27,28,29,46,49,50,41, |
|  |  |  | 59,73,80 |
| LEXXGI2 | 66127456 | 66453808 | 25,26,28,29,46,49,50,73,80 |
| LEXXGI3 | 21977980 | 20329956 | 59,80 |

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| --- | --- | --- | --- |
| LEXXGI4 | 22057583 | 168770794 | 51,80 |
| LEXXGP1 | <new> | 211142742 | 80 |
| LEXXGP2 | <new> | 136699834 | 80 |
| LEXXII | 40032247 | 41394926 | 32,46,49,50,41,59,73,80 |
| LEXXII2 | 32005202 | 32320657 | 59,80 |
| LEXXM | <new> | 70674913 | 80 |
| LEXXM1 | <new> | 23924703 | 80 |
| LEXXM2 | <new> | 28282174 | 80 |
| LEXXM3 | <new> | 82567477 | 80 |
| LEXXM4 | <new> | 52053731 | 80 |
| LEXXM5 | <new> | 16058487 | 80 |
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