Enterprise Terminology Services (ETS)

Package Version 1.0


Version 1.0

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Office of Information and Technology (OI&T)
Artifact Rationale

A Technical Manual is a required end-user document for all OI&T software releases. The intended audience for this document is local IT support, management, and development personnel for nationally released software. It provides sufficient technical information about the software for developers and technical personnel to operate and maintain the software with only minimal assistance from Product Support staff.
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1. **Introduction**

This Enterprise Terminology Services (ETS) package exists to provide enterprise-wide access to common code sets that are needed in a health care system. It will contain FileMan files with the data and Application Program Interfaces (APIs) that can be used to provide access and process the data. The Integration Control Registrations will be supported and thus open to all VistA applications.

1.1. **Purpose**

This document is designed to include the FileMan data structures and APIs that are a part of this package. It will include information regarding routines and processes that are required to keep the data up-to-date with the most recent national standard data.

1.2. **System Overview**

The initial release of ETS will consists of the Logical Observation Identifiers Names and Codes (LOINC) files and APIs to access the data in those files. LOINC is a trademark of the Regenstrief Institute. The LOINC database provides sets of universal names and ID codes for identifying laboratory and clinical test results.

All additions, changes, and deprecation to entries in this file shall be done by the Standards & Terminology Services (STS) team. Creating and/or editing locally defined fields in the file are not permitted.

1.3. **Document Orientation**

This manual's intended audience is Information Resource Management (IRM) personnel, Applications Coordinators (ADPACs), Clinical Coordinators, and developers.

1.3.1. **Disclaimers**

This manual provides an overall explanation of this package functionality. This guide does not attempt to explain how the overall VistA programming system is integrated and maintained.

1.3.1.1. **Software Disclaimer**

This software was developed at the Department of Veterans Affairs (VA) by employees of the Federal Government in the course of their official duties. Pursuant to Title 17 Section 105 of the United States Code, this software is not subject to copyright protection and is in the public domain. VA assumes no responsibility whatsoever for its use by other parties, and makes no guarantees, expressed or implied, about its quality, reliability, or any other characteristic. We would appreciate acknowledgement if the software is used. This software can be redistributed
and/or modified freely provided that any derivative works bear some notice that they are derived from it, and any modified versions bear some notice that they have been modified.

1.3.1.2. Documentation Disclaimer

The appearance of external hyperlink references in this manual does not constitute endorsement by the Department of Veterans Affairs (VA) of this Web site or the information, products, or services contained therein. The VA does not exercise any editorial control over the information you may find at these locations. Such links are provided and are consistent with the stated purpose of the VA.

1.3.2. References

LOINC reference documents:

- Regenstrief Institute – http://www.regenstrief.org/resources/loinc/

2. Implementation and Maintenance

2.1. System Requirements

2.1.1. Hardware Requirements

The ETS package should be installed on systems that are able to support running VistA applications.

2.1.2. Software Requirements

The following software packages must be installed prior to the ETS version 1.0 installation.

- VA FileMan version 22.2
- Kernel version 8.0
- MailMan version 8.0

2.1.3. Database Requirements

VA Fileman version 22.2 and Kernel version 8.0 are required to install and run the ETS application.
2.2. System Setup and Configuration

The initial release of ETS will be in patch ETS*1.0*1, which will be a standard Kernel Installation and Distribution System (KIDS) build. The installation is described in the patch description. After installation, the Enterprise Terminology Services package will be created on the system along with the LOINC databases and APIs.

3. Files

<table>
<thead>
<tr>
<th>File #</th>
<th>File Name</th>
<th>Global Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>129.1</td>
<td>LOINC</td>
<td>^ETSLNC(129.1,</td>
<td>This LOINC file contains an extraction of the LOINC database. The LOINC database provides sets of universal names and ID codes for identifying laboratory and clinical test results.</td>
</tr>
<tr>
<td>129.11</td>
<td>LOINC COMPONENT</td>
<td>^ETSLNC(129.11,</td>
<td>This file contains the name of the component or analyte measured for the LOINC file (#129.1).</td>
</tr>
<tr>
<td>129.12</td>
<td>LOINC AXIS CODES</td>
<td>^ETSLNC(129.12,</td>
<td>The LOINC Axis Codes file contains a collection of LOINC codes used by the Axis fields in the LOINC file.</td>
</tr>
<tr>
<td>129.13</td>
<td>LOINC METHOD CODES</td>
<td>^ETSLNC(129.13,</td>
<td>This file contains a listing of method codes, which is one of the axis fields in a LOINC code and are defined by Regenstrief.</td>
</tr>
<tr>
<td>129.14</td>
<td>LOINC EXCLUDED WORDS FILE</td>
<td>^ETSLNC(129.14,</td>
<td>This file contains LOINC terms which are meant to be excluded from indexing and lookup.</td>
</tr>
</tbody>
</table>

4. Routines

The following is a list of routines that will exist after the installation of ETS (ETS*1.0*0).

- ETS10P0
- ETSLNC
- ETSLNC1
- ETSLNC2
- ETSLNC3
- ETSLNCIX
- ETSLNCTX
5. **Exported Options**

There are no exported options associated with this package.

6. **Mail Groups, Alerts, and Bulletins**

There are no mail groups, alerts, or bulletins associated with this package.

7. **Public Interfaces**

There are no public interfaces associated with this package.

7.1. **Integration Control Registrations**

<table>
<thead>
<tr>
<th>Category</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported Reference</td>
<td>ICR #6731 has been created to make all APIs included in this package available for use by all VistA packages.</td>
</tr>
</tbody>
</table>

7.2. **Application Programming Interfaces**

7.2.1. **$CHKCODE^ETSLNC: Verify code in LOINC Dictionary**

This API checks to see if the LOINC code is in the LOINC Dictionary.

**Format**

$$CHKCODE^ETSLNC(CODE)

**Input parameter**

**CODE:** (Required) LOINC Code

**Output**

$CHKCODE: 0 – Does Not Exist
1 – Exists
-1^<message> – Error
7.2.2. **$COMLST^ETSLNC: Retrieve component list**

This API retrieves a list of LOINC codes for a passed-in component. It returns both the LOINC code and Fully Specified Name.

Format

$$COMLST^ETSLNC(COM,SUB)

Input parameters

**COM:** (Required) Component IEN

**SUB:** (Optional) Subscript used to store the data in. If not passed in, the default is "ETSCOMP".

Output

$$COMLST: 1 – Success
0 – Component not used
-1^<message> – Error

^TMP(SUB,$J,"COMP",CODE) = Fully Specified Name

**Note:** Array is not initialized. The calling application is responsible for initializing the array.

---

**Figure 2: $COMLST^ETSLNC Example**

>W $$COMLST^ETSLNC(2,"SAB")
1

7.2.3. $$CSDATA^ETSLNC: Get Detailed Information about a Code

This API retrieves information for a specific code in a database. Note that this API was modeled after a Lexicon API with a similar name, and the input and output value match the format of that API as much as possible.

Format

$$CSDATA^ETSLNC(CODE,CSYS,CDT,RESULT)

Input parameters

**CODE:** (Required) LOINC Code used for lookup.

**SYS:** (Optional) Coding System to perform the lookup on. For LOINC, "LNC" is the only valid value to send. If not passed in, defaults to "LNC".

**CDT:** (Optional): Date in Fileman Format to use to evaluate Status. If not passed in, defaults to TODAY.

**RESULT:** (Required – Passed by Reference) Array to return the information requested.

Output

**$CSYS:** One of three values:

1 – Successful (Code exists in the LOINC dictionary)

0 – Unsuccessful

-1^<message> – Error

RESULT("LEX",1): Two pieces of data – IEN^ Fully Specified Name

RESULT("LEX",1,"N"): "IEN ^ Fully Specified Name"

RESULT("LEX",2): Two pieces of data – Activation Status ^Activation Effective Date

RESULT("LEX",2,"N"): "Status ^ Effective Date"

RESULT("LEX",8): Either Null (Active) or 1 (Inactive)

RESULT("LEX",8,"N"): "Deactivated Concept"

RESULT("SYS",1): IEN

RESULT("SYS",1,"N"): "IEN"

RESULT("SYS",2): Long Common Name

RESULT("SYS",2,"N"): "Long Common Name"

* Note that the "N" values are the description of the output.
Figure 3: $\text{CSDATA}^\text{ETSLNC}$ Example

\begin{verbatim}
>W $\text{CSDATA}^\text{ETSLNC}(6110,"LNC","",.RESULT)
1
ZW RESULT
RESULT("LEX",1)="6110^PLANTAGO LANCEOLATA AB.IGE:ACNC:PT:SER:QN:
RESULT("LEX",1,"N")="IEN ^ Fully Specified Name"
RESULT("LEX",2)="1^3160101"
RESULT("LEX",2,"N")="Status ^ Effective Date"
RESULT("LEX",8)="
RESULT("LEX",8,"N")="Deactivated Concept"
RESULT("SYS",1)=6110
RESULT("SYS",1,"N")="IEN"
RESULT("SYS",2)="ENGLISH PLANTAIN IGE AB [UNITS/VOLUME] IN SERUM"
RESULT("SYS",2,"N")="Long Common Name"
\end{verbatim}

7.2.4. $\text{CSYS}^\text{ETSLNC}$: Retrieve the Coding System Information

This API returns coding system information for LOINC. Note that this API was modeled after a Lexicon API with a similar name, and the input and output value match the format of that API as much as possible.

Format

$\text{CSYS}^\text{ETSLNC}(SYS)$

Input parameter

SYS: (Optional) Coding System to perform the Lookup on. For LOINC, the only valid value is "LNC". If not passed in, defaults to "LNC".

Output

$\text{CSYS}$: A delimited string of code system information

1. Not used
2. Three-character Source Abbreviation
3. Source Abbreviation
4. Nomenclature
5. Source Title
6. Source
7. Not used
8. Not used
9. Not used
10. Not used
11. Not used
12. Version ID
13. Implementation Date
14. Lookup Threshold
7.2.5. **$$DEPLST^ETSLNC: Retrieve Deprecated List**

This API retrieves the list of deprecated LOINC codes.

**Format**

$$DEPLST^ETSLNC(SUB)

**Input parameter**

**SUB**: (Optional) Subscript for the Temporary Deprecated List Array. If not passed in, defaults to "ETSDEP".

**Output**

$$DEPLST: 1 – Deprecated items found
0 – No Deprecated items found

^TMP(SUB,$J,"DEPRECATED",<CODE>) – Fully Specified Name

7.2.6. **$$GETCODE^ETSLNC: Retrieve LOINC Code for given IEN**

This API retrieves the LOINC code for the IEN passed in.

**Format**

$$GETCODE^ETSLNC(IEN)

**Input parameter**

**IEN**: (Required) LOINC Code IEN
Output

**$GETCODE**: LOINC Code

1^<message> – Error

---

**Figure 6: $GETCODE^ETSLNC Examples**

<table>
<thead>
<tr>
<th>Command</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>W $GETCODE^ETSLNC1(5)</td>
<td>5</td>
</tr>
<tr>
<td>W $GETCODE^ETSLNC1(0)</td>
<td>-1^LOINC Code not found</td>
</tr>
</tbody>
</table>

7.2.7. **$GETNAME^ETSLNC: Retrieve LOINC Name Array**

This API retrieves the LOINC Name Array. Currently retrieves the Fully Specified Name and Long Common Name.

Format

$GETNAME^ETSLNC(LOINC,TYPE,NAME)

Input parameter

**LOINC**: (Required) LOINC Code or IEN

**TYPE**: (Optional) Input Type - "C" for LOINC Code or "I" for LOINC IEN. If not passed in, defaults to "C"

**NAME**: (Required-Passed by Reference) – Array for output values

Output

**$GETNAME**: 1 – success and results found

0 – no results found

-1^<message> – Error

**NAME**: An array with the Name values. The array will be cleared upon entry. The output array will have the following subscripts:

NAME ("FULLNAME")=Fully Specified Name
NAME("LONGNAME")=Long Common Name
Figure 7: $\text{GETNAME}^\text{ETSLNC}$ Examples

```plaintext
$\text{GETNAME}^\text{ETSLNC}(3,"C",\text{.NAME})$
1

$Z\text{W NAME NAME}=$"$
NAME("\text{FULLNAME}")="\text{ALMECILLIN:SUSC:PT:ISOLATE:ORDQN:MIC}"
NAME("\text{LONGNAME}")="\text{ALMECILLIN - BY TEST [SUSCEPTIBILITY] BY MINIMUM INHIBITORY CONCENTRATION (MIC)}"

$\text{GETNAME}^\text{ETSLNC}(3,\text{.NAME})$
1

$Z\text{W NAME NAME}=$"$
NAME("\text{FULLNAME}")="\text{ALMECILLIN:SUSC:PT:ISOLATE:ORDQN:MIC}"
NAME("\text{LONGNAME}")="\text{ALMECILLIN - BY TEST [SUSCEPTIBILITY] BY MINIMUM INHIBITORY CONCENTRATION (MIC)}"
```

7.2.8. $\text{GETREC}^\text{ETSLNC}$: Retrieve LOINC Information

This API retrieves all information about the LOINC CODE or IEN.

Format

$\text{GETREC}^\text{ETSLNC}(\text{LOINC},\text{TYPE},\text{SUB})$

Input parameter

- **LOINC:** (Required) LOINC Code or LOINC IEN
- **TYPE:** (Optional) Input Type – "C" for Code (default) or "I" for IEN. If not passed in, default is "C".
- **SUB:** (Optional) Subscript for ^TMP array storing the results. If not passed in, default is "ETSREC"

Output
$\$GETREC: 1 – Record found
0 – No record found
-1^<message> – Error

Each node of the TMP global will be equal to the data in the field indicated by the node.

^TMP(SUB,$J,"RECORD","ACTIVATION HISTORY",#,"ACTIVATION EFFECTIVE DATE")

"ACTIVATION HISTORY",#,"ACTIVATION STATUS")
"ADJUSTMENT")
"CHALLENGE")
"CHANGE REASON")
"CHANGE TYPE")
"CHECK DIGIT")
"CLASS")
"CLASSTYPE")
"COMMENTS") or "COMMENTS",#)
"DATE LAST CHANGED")
"EXAMPLE UCUM UNITS")
"FULLY SPECIFIED NAME")
"IEN")
"LONG COMMON NAME")
"MASTER ENTRY FOR VUID")
"METHOD TYPE")
"NON-PATIENT SPECIMEN")
"PROPERTY")
"REPEAT OBSERVATION")
"SCALE TYPE")
"SHORTNAME")
"SNOMED CODE")
"SOURCE")
"SYSTEM")
"TIME ASPECT")
"TIME MODIFIER")
"UNITS")
"VA COMMON DISPLAY NAME")
"VERSION NUMBER")
"VUID")
"VUID EFFECTIVE DATE",#,"EFFECTIVE DATE/TIME")
"VUID EFFECTIVE DATE",#,"STATUS")

Figure 8: $\$GETREC^ETSLNC Example

>W $\$GETREC^ETSLNC(546,"C")
1
>D ^%G

Global ^TMP("ETSREC","J
^TMP("ETSREC",139688,"RECORD","ACTIVATION HISTORY",1,"ACTIVATION EFFECTIVE
DATE")="3150629^JUN 29, 2015"
7.2.9.  **GETSTAT^ETSLNC: Retrieve LOINC Status**

This API retrieves the current status for a LOINC Code or IEN.

Format

```
$GETSTAT^ETSLNC(LOINC,TYPE)
```

Input parameters

- **LOINC:** (Required) LOINC Code or LOINC IEN
- **TYPE:** (Optional) Input Type – "C" for Code or "I" for IEN. If not passed in, default is "C".
Output

$$\text{GETSTAT: $\text{Current Status (Internal format} ^ \text{External Format)}}$$

---

**Figure 9: $$\text{GETSTAT}^\text{ETSLNC Examples}$$**

```plaintext
>W $$\text{GETSTAT}^\text{ETSLNC}(1, "C")
1^\text{DEL}

>W $$\text{GETSTAT}^\text{ETSLNC}(2, "I")
^\text{Active}

>W $$\text{GETSTAT}^\text{ETSLNC}(3)
3^\text{DISCOURAGED}
```

---

**7.2.10. $$\text{HIST}^\text{ETSLNC: Get Activation History for a LOINC Code}$$**

The API allows a user to extract the Activation History for a specified LOINC CODE. Note that this API was modeled after a Lexicon API with a similar name, and the input and output value match the format of that API as much as possible.

Format

$$\text{HIST}^\text{ETSLNC}($$CODE, SYS,.RESULT$$)$$

Input Parameters

- **CODE:** (Required) LOINC Code.
- **SYS:** (Optional) Coding System for lookup. For LOINC, the valid values is "LNC". If not value passed, the value is defaulted to "LNC".
- **RESULT:** (Required – Passed by Reference) Array returning the information requested.

Output

- **$$\text{HIST:}$$** Either Number of Histories Found or "-1 ^ error message"
- **RESULT:** Detailed History Information
  
  \[ \text{RESULT}(0) = \text{Number of Activation Histories} \]
  
  \[ \text{RESULT}(0,0) = \text{LOINC Code} ^ \text{Source Abbreviation} \]
  
  \[ = \text{"LNC"} ^ \text{Nomenclature ("LOINC")} \]
  
  \[ \text{RESULT}(<\text{Fileman Date}>, <\text{Status}>) = <\text{Comment}> \]
  
  Where <Date> is a date (in Fileman internal format) of the status change
  
  <Status> is 1:Active or 0:Inactive
  
  <Comment> is "Activated", "Inactivated", or "Re-activated", The comment is dependent on the current and previous statuses.
7.2.11. $$PERIOD^ETSLNC: Get Activation / Inactivation Periods for a Code

This API allows a user to view the activation periods of a given code. Note that this API was modeled after a Lexicon API with a similar name, and the input and output value match the format of that API as much as possible.

Format

$$PERIOD^ETSLNC(CODE,SYS,.RESULT)

Input Parameters

**CODE:** (Required) LOINC Code.

**SYS:** (Optional) Coding System to perform the Lookup. For LOINC, the only valid value is "LNC". If not passed, this defaults to "LNC".

**RESULT:** (Required – Passed by reference) Array to return the results.

Output

**$$PERIOD:** Five-piece string of delimited values or "-1^Error Message"

1. # of Activation Periods Found
2. Not used
3. Source Abbreviation ("LNC")
4. Nomenclature ("LOINC")
5. Source Title ("Logical Observation Identifier Names and Codes")

**RESULT(0):** Same output as $$PERIOD

**RESULT(<Activation Date>):** Four-piece string of delimited values

1. Inactivation Date (if inactivated)
2. Not Used
3. Variable Pointer to the LOINC File
4. LONG COMMON NAME

RESULT(<Activation Date>,0): FULLY SPECIFIED NAME

**Figure 11: $$PERIOD^ETSLNC Example**

```plaintext
>W $$PERIOD^ETSLNC(6110,"LNC",.RESULT)
1^^LNC^LOINC^Logical Observation Identifier Names and Codes

>ZW RESULT
RESULT(0)="1^^LNC^LOINC^Logical Observation Identifier Names and Codes"
RESULT(3061026)="^E6110;^ETS(129.1,^ENGLISH PLANTAIN IGE AB [UNITS/VOLUME] IN SERUM"
RESULT(3061026,0)="PLANTAGO LANCEOLATA AB.IGE:ACNC:PT:SER:QN:"
```

### 7.2.12. $$TAX^ETSLNC: Get Taxonomy Information

This API allows a user to locate all of the valid codes in the LOINC database for a given string. Note that this API was modeled after a Lexicon API with a similar name, and the input and output value match the format of that API as much as possible.

**Format**

```
$$TAX^ETSLNC(X,SRC,DT,SUB,VER)
```

**Input parameters**

- X: (Required) Partial Code or Text String to look up.
- SRC: (Optional) Targeted Source(s). For LOINC, valid value will be "LNC". If not passed in, defaults to "LNC"
- DT: (Optional) Date in FileMan format to use to evaluate Status. If not passed in, defaults to TODAY.
- SUB: (Optional) Global subscript for ^TMP global. If not passed in, defaults to "LEXTAX".
- VER: (Optional) Search criteria - 0 for both Active and Inactive codes, 1 for Active codes only. If not passed in, defaults to 0.

**Output**

- **$$TAX**: The number of LOINC codes found or -1 ^ error message
- ^TMP(SUB,$J,1,(CODE_" "),#) returns a five-piece " ^^" string:
  1. Activation Date
  2. Inactivation Date (if inactivated)
3. Not used
4. Variable Pointer to the LOINC File – IEN concatenated with ",;ETSLNC(129.1, "
5. Long Common Name

\[^\text{TMP}(\text{SUB},\$\text{J},1,(\text{CODE}_- " "))\_,\#,0)\] returns a two piece “^” delimited string

1. LOINC Code
2. Fully Specified Name

where SUB is the subscript passed via the SUB input parameter and CODE is the LOINC code.

**Figure 12: \$\text{TAX}^\text{ETSLNC} Example**

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\text{TAX}^\text{ETSLNC}(6110,&quot;LNC&quot;,&quot;TST&quot;,1)</td>
<td></td>
</tr>
</tbody>
</table>
1 |
| \text{^TMP("TST",57728,0)}=1 | 
| \text{^TMP("TST",57728,"6110 ",1)}="3160101^^^61103;ETSLNC(129.1,^\text{ENGLISH PLANTAIN IGE AB [UNITS/VOLUME]} IN SERUM" | 
| \text{^TMP("TST",57728,"6110 ",1,0)}="6110^\text{PLANTAGO LANCEOLATA AB.IGE:ACNC:PT:SER:QN:}" | 

7.2.13. **\$\text{VERSION}^\text{ETSLNC}: Retrieve LOINC Version**

This API retrieves the LOINC version.

**Format**

\$\text{VERSION}^\text{ETSLNC}()

**Input parameter**

None

**Output**

\$\text{VERSION}: LOINC Version Number
Null – No Version Data found
-1^<File Definition Error>

**Figure 13: \$\text{VERSION}^\text{ETSLNC} Example**

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\text{W $\text{VERSION}^\text{ETSLNC}()}</td>
<td></td>
</tr>
</tbody>
</table>
2.52 |
7.3. **Remote Procedure Calls**  
There are no remote procedure calls associated with this package.

7.4. **HL7 Messaging**  
There are no HL7 messages associated with this package.

7.5. **Web Services**  
There are no Web services associated with this package.

7.6. **Contingency Planning**  
This section does not apply to ETS.

8. **Standards and Conventions Exemptions**

8.1. **Internal Relationships**  
There are no internal relationships defined with this package.

8.2. **Software-wide Variables**  
There are no software-wide variables associated with this package.

9. **Security**

9.1. **Security Menus and Options**  
There are no security menus or options associated with this package.

9.2. **Security Keys and Roles**  
No security keys are part of this package.
9.3. File Security

Table 3: File Security List

<table>
<thead>
<tr>
<th>File #</th>
<th>File Name</th>
<th>Global Location</th>
<th>File Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>129.1</td>
<td>LOINC</td>
<td>^ETSLNC(129.1,</td>
<td>DD ACCESS: @</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RD ACCESS: @</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>WR ACCESS: @</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DEL ACCESS: @</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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9.4. Electronic Signatures

There are no electronic signatures used or required by this package.

9.5. Secure Data Transmission

There are currently no data transmissions that are part of this package.
10. Archiving
Currently, none of the ETS data is archived.

11. Non-Standard Cross-References
There are no non-standard cross-references.

12. Troubleshooting

12.1. Special Instructions for Error Correction
There are no special instructions.

12.2. National Service Desk and Organizational Contacts
The table below has the National Service Desk contacts.

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Gov or Non-Gov</th>
<th>FTE</th>
<th>Org</th>
<th>Contact Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1: National Service Desk</td>
<td>NSD Tier 1 Support</td>
<td>Gov</td>
<td>No change to existing VistA support FTE</td>
<td>NSD</td>
<td>1-855-NSD-HELP</td>
</tr>
<tr>
<td>Tier 2: National Service Desk</td>
<td>NSD Tier 1 Support</td>
<td>Gov</td>
<td>No change to existing VistA support FTE</td>
<td>NSD</td>
<td>Service Desk Manager (SDM) trouble tickets</td>
</tr>
</tbody>
</table>
| Tier 3: Regional Application Service Line       | Install Patch – Tier 3 | Gov            | No change to existing VistA support FTE | OI&T Field Operations | Region 1 – Kaylene Zimmer 360-816-6158
|                                                 |                       |                |                              |                | Region 2 – Stefan Test 850-293-0858               |
|                                                 |                       |                |                              |                | Region 3 – Jenny Stafford 901-601-0641           |
|                                                 |                       |                |                              |                | Region 4 – Mike Fournier 603-998-4714            |
|                                                 |                       |                |                              |                | Region 6 – Derik Frioud 303-370-7715             |
## 13. Acronyms and Abbreviations

**Table 5: Acronyms and Abbreviations**

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADPAC</td>
<td>Applications Coordinator</td>
</tr>
<tr>
<td>API</td>
<td>Application Program Interface</td>
</tr>
<tr>
<td>CBO</td>
<td>Chief Business Office</td>
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<tr>
<td>DBIA</td>
<td>Database Integration Agreement</td>
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<tr>
<td>DFN</td>
<td>Data File Number</td>
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<tr>
<td>ETS</td>
<td>Enterprise Terminology Services</td>
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<tr>
<td>FTE</td>
<td>Full-Time Employee</td>
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<tr>
<td>HL7</td>
<td>Health Level Seven</td>
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<tr>
<td>ICR</td>
<td>Integration Control Registrations</td>
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<tr>
<td>ID</td>
<td>Identifier</td>
</tr>
<tr>
<td>IEN</td>
<td>Internal Entry Number</td>
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<tr>
<td>IRM</td>
<td>Information Resource Management</td>
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<tr>
<td>IT</td>
<td>Information Technology</td>
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<tr>
<td>KIDS</td>
<td>Kernel Installation and Distribution System</td>
</tr>
<tr>
<td>LOINC</td>
<td>Logical Observation Identifiers Names and Codes</td>
</tr>
<tr>
<td>M / MUMPS</td>
<td>Massachusetts General Hospital Utility Multi-Programming System</td>
</tr>
<tr>
<td>NSD</td>
<td>National Service Desk</td>
</tr>
<tr>
<td>NSR</td>
<td>New Service Request</td>
</tr>
<tr>
<td>OED</td>
<td>Office of Enterprise Development</td>
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<tr>
<td>OI&amp;T</td>
<td>Office of Information and Technology</td>
</tr>
<tr>
<td>PIMS</td>
<td>Patient Information Management System</td>
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<tr>
<td>PMO</td>
<td>Program Management Office</td>
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<tr>
<td>RPC</td>
<td>Remote Procedure Call</td>
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<tr>
<td>RSD</td>
<td>Requirements Specification Document</td>
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<tr>
<td>SACC</td>
<td>Standards and Conventions Committee</td>
</tr>
<tr>
<td>SDM</td>
<td>Service Desk Manager</td>
</tr>
<tr>
<td>SSOi</td>
<td>Single Sign-On and Patient Context Management</td>
</tr>
<tr>
<td>STS</td>
<td>Standards and Terminology Services</td>
</tr>
<tr>
<td>VA</td>
<td>Department of Veterans Affairs</td>
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<tr>
<td>VistA</td>
<td>Veterans Health Information Systems and Technology Architecture</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
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<tr>
<td>Access Code</td>
<td>The unique sequence of characters assigned to the user by the site system manager. The access code in conjunction with the verify code is used to identify authorized users.</td>
</tr>
<tr>
<td>Application</td>
<td>A collection of computer programs and files developed specifically to meet the requirements of a user or group of users.</td>
</tr>
<tr>
<td>Archive</td>
<td>The process of moving data that is no longer actively used to a separate storage for long-term retention.</td>
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<tr>
<td>Field</td>
<td>A data element in a file.</td>
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<tr>
<td>FileMan</td>
<td>The VistA database manager.</td>
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<tr>
<td>Global</td>
<td>A collection of variables (fields) stored on disk that persist beyond routine or process completion. M VistA Server Globals are records stored in structured data files by M.</td>
</tr>
<tr>
<td>Kernel</td>
<td>A set of utilities that support data processing on VistA M Servers.</td>
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<tr>
<td>Option</td>
<td>Commands presented to a computer user by an applications. Typically, options are presented on a menu and have specific entry and exit actions.</td>
</tr>
<tr>
<td>Procedure</td>
<td>A reusable part of a computer program that performs a single function.</td>
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<tr>
<td>Purge</td>
<td>The action/process of deleting a file or data from a file.</td>
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<tr>
<td>Remote Procedure Call</td>
<td>An inter-process communication protocol that allows invocation of a program subroutine or procedure to execute in shared network space.</td>
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<tr>
<td>Required Field</td>
<td>A field which must have a data value entered by the user or passed as a parameter to computer program or subroutine.</td>
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<tr>
<td>Routine</td>
<td>A set of commands and arguments related, stored, and executed as a single M program.</td>
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