**Lab Enhancements - Autoverification, Microbiology Enhancements & Anatomic Pathology (AP) Order Dialogs**

**Anatomic Pathology (AP) Order Dialogs**

**System Design Document**



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**Revision History**

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**Artifact Rationale**

The System Design Document (SDD) is a dual-use document that provides the conceptual design as well as the as-built design. This document will be updated as the product is built, to reflect

the as-built product.

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**1. Introduction**

The purpose of this System Design Document (SDD) is to convey the overall design required to deliver enhancements to the Veterans Health Information Systems and Technology Architecture (VistA) Anatomic Pathology (AP) Laboratory Module. The AP Laboratory service needs a mechanism for clinicians to provide required patient-specific, procedure-specific, and specimen- specific information to facilitate specimen processing by pathologists. This mechanism must be in place for use by the specimen labeling application in order to generate a primary specimen label that positively identifies the specimen and accurately associates it with the patient. In addition, this request is a dependency for a national project, Bar Code Expansion – Positive

Patient Identification (BCE-PPI), which will not be able to proceed with interface development if the AP Order Dialog is not in place.

**1.1. Scope**

The requested AP Order Dialog (APOD) will improve ordering clinicians’ ability to provide required patient-specific, procedure-specific, and specimen-specific information to facilitate specimen processing by pathologists. The AP Order Dialog will provide ordering clinicians with the ability to:

• Electronically create, view, update, and edit an AP Order at any time during the AP Order process

• Use electronic order entry to properly and accurately process AP Orders

• Use standardized and specialized templates to enter procedure and specimen-specific lab request information that can be used by the AP lab to process and evaluate associated AP Order lab specimen submissions

• Electronically match the AP Order lab specimen request to the patient and specimen at the time of collection and at time of labeling

• *Future Requirement once BCE Project Re-started:* Provide required patient and preliminary AP Order lab specimen information to the Point of Care Specimen Collection System that can be used for AP specimen collection

Please refer to the VLE APOD Business Requirements Document:

**1.2. User Profiles**

The core intended user base of the APOD enhancement will include ordering clinicians*,* laboratory clinicians, and anatomic pathologists. The ordering clinician will be responsible for initiating the original AP request, specimen collection, and submission to laboratory. The laboratory clinicians will serve as the intermediate processors to receive, accession, and process the various AP specimens for review by the anatomic pathologist. The anatomic pathologists will complete the process by examining the specimens and entering results into VistA. Once complete, the ordering clinician will then be able to view the results.

The user community of clinicians, Medical Technologists (MTs), pathologists, and ancillary staff are highly proficient in clinical laboratory medicine procedures, particularly AP orders, and are also highly proficient in the use of Computer Patient Record System (CPRS) and legacy VistA Laboratory. The user group staffs the majority of the VA’s 300 labs, 24 hours a day, and 7 days

a week.

The technical community of the CPRS project team, VistA Lab business and technical teams, VistA Laboratory Electronic Data Interchange (LEDI) project team VLE Anatomic Pathology, Laboratory System Re-Engineering Project (LSRP) team, and Bar Code Expansion (BCE) – Patient Positive Identification (PPI) team all have a broad depth of knowledge and expertise in the support and maintenance required of this solution.

**2. Background**

**2.1. Overview of the System**

The VistA AP Laboratory Module will be enhanced with the addition of a new AP Order Dialog that will allow ordering clinicians to provide required patient-specific, procedure-specific and specimen-specific information to facilitate specimen processing by pathologists.

This development is required in order to be used by the specimen labeling application to generate a primary specimen label that positively identifies the specimen and accurately associates it with the patient. In addition, this request is a dependency for a national project, Bar Code Expansion – Positive Patient Identification (BCE-PPI), which will not be able to proceed with interface development if the AP Order Dialog is not in place.

By enhancing the VistA AP Laboratory Module, the ordering clinician will be able to: electronically create, view, update and edit an AP Order anytime during the AP Order process; use electronic order entry to properly and accurately process AP Orders; use standardized and specialized templates to enter procedure and specimen-specific lab request information that can be used by the AP lab to process and evaluate associated AP Order lab specimen submissions; electronically match the AP Order lab specimen request to the patient and specimen at the time of collection and at time of labeling; and meet the future requirement of BCE-PPI to provide required patient and preliminary AP Order lab specimen information to the Point of Care Specimen Collection System.

Overall, the AP Order dialog will provide standardization to the current process of AP Order, effectively increasing the accuracy and efficiency.

Primary users of the system will include the ordering physician/lab requestor (e.g., physician, administrator, nurse). The responsibilities of the primary users will revolve around the creation and management of the lab request to include:

• Entering a new lab request

• Modifying a lab request

• Viewing a lab request

• Canceling a lab request

Secondary users of the system will include staff authorized to view orders in the Electronic

Health Record (EHR) and general Administrators. The responsibilities of this user group will

revolve around the viewing of lab requests and the overall upkeep, configuration, and operation of the system.

**2.2. Overview of the Business Process**

The new business process will allow for the following:

1. Enable Providers to electronically create, view, update, and edit an AP Order anytime during the AP Order process

2. Integrate the electronic order entry with the Laboratory Anatomic Pathology system to properly and accurately process AP Orders

3. Implement standardized and specialized templates to assist in the accurate and expeditious entry of procedure and specimen-specific for the following requests:

a. Bone Marrow b. Bronchial

c. Bronchial Biopsy d. Dermatology

e. Fine Needle Aspirate f. General Fluid

g. General Surgery

h. Gastro-Intestinal, Upper GI i. Gastro-Intestinal, Lower GI j. Gynecology

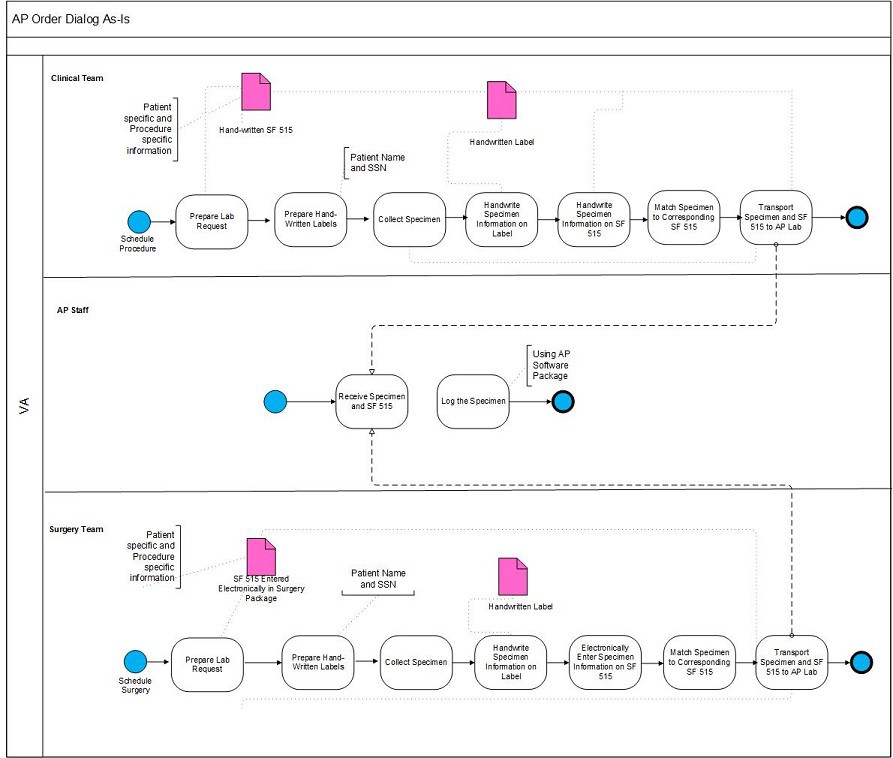
k. Urine

l. Urology, Prostate

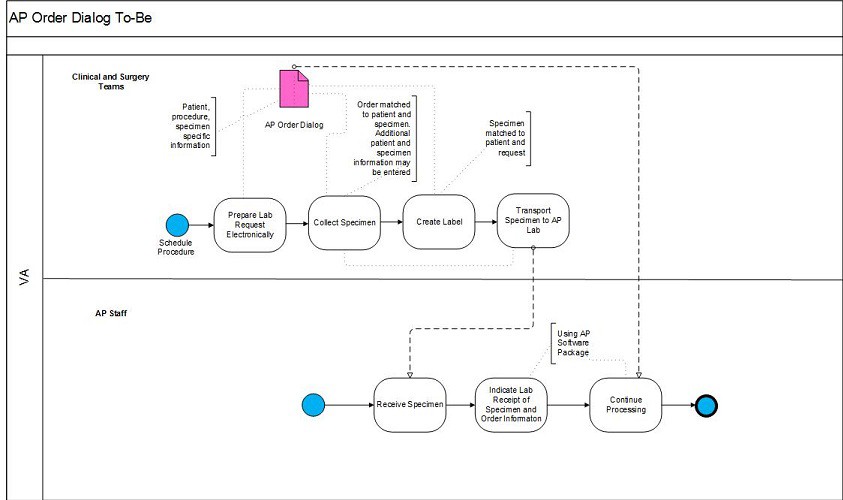
m. Urology, Bladder/Ureter n. Urology, Bladder/Ureter

4. Allow staff to electronically match the AP Order lab request to the patient and specimen at the time of collection and at time of labeling

Figures 1 and 2 below show a representation of the As Is Business and To Be Business processes.



**Figure 1**: As Is Business Process Diagram



**Figure 2**: To Be Business Process Diagram

Please refer to the VLE APOD Business Requirements Document at:

[http://tspr.vista.med.va.gov/warboard/ProjectDocs/VistA\_Laboratory\_Enhancements\_(VLE)/VE](http://your_srver.domain.ext/warboard/ProjectDocs/VistA_Laboratory_Enhancements_(VLE)/VE_VLE-APOD_BRD.pdf)

[\_VLE-APOD\_BRD.pdf](http://your_srver.domain.ext/warboard/ProjectDocs/VistA_Laboratory_Enhancements_(VLE)/VE_VLE-APOD_BRD.pdf)

**3. Conceptual Design**

The Anatomic Pathology order dialog works to electronically connect the CPRS order process to the Laboratory package using the new LR OTHER AP TESTS order dialog and the existing CPRS to Laboratory communication methodology. The test list (orderable items) will be

screened so that only Anatomic Pathology subscripted tests will be available for selection. A new configuration file will control the order dialog prompts and defaults behavior by test (orderable item). VistA M modifications will be needed to redirect the Order Entry Results Reporting package dialog through the Laboratory communication function on order acceptance. This will result in a valid entry in the LAB ORDER ENTRY file (69) and a corresponding acknowledgment communication back to CPRS which will update the order appropriately. All subsequent updates to the CPRS order from the Laboratory package will take place via normal legacy functionality. The Display Group for the Orderable Items will be set to Anatomic

Pathology and the Anatomic Pathology order will display in their own Display Group subsection on the Orders tab.

**3.1. Conceptual Application Design**

**Order Dialogs**

*Requirement - Create a new CPRS Order Dialog (LR OTHER AP TESTS)*

Using the existing Delphi code for the legacy LR OTHER LAB TESTS order dialog as a starting point a new order dialog will be developed. This form will have all the dialog prompts currently required by legacy code to meet the needs for a valid Lab order. In addition to those fields, four word processing fields will be added to support the needs of the Laboratory Anatomic Pathology package. Also in support of the Anatomic Pathology package the collection sample and specimen prompts will be converted to multiple valued along with a new Specimen Description prompt.

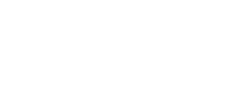
The communication message array from CPRS to Laboratory that utilizes a format similar to an HL7 message will have to be modified to let the lab package know that the new order is an Anatomic Pathology test and there is more information in the ORDER file (#100) that must be retrieved. This will be done with the addition of an AP1 or ZAP segment (TBD by DBA).

The processing code in the Laboratory package must be modified to recognize the new segment in the array and this would be the trigger to retrieve the additional Anatomic Pathology data from file 100 and add it to the LAB ORDER ENTRY file (#69).

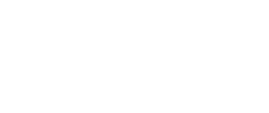
The Anatomic Pathology Log-In option will be modified to prompt for a lab order number first and if an electronic Anatomic Pathology order exists it will be accessioned at this point. All subsequent Anatomic Pathology functionality will continue as it does for current legacy code.

**3.1.1. Application Context**

The CPRS Anatomic Pathology Order Dialog will connect to the Laboratory Anatomic Pathology Package through VistA utilizing bi-directional interfaces. Figure 3, shows the application context.







Laboratory – Anatomic Pathology Package

VistA

CPRS – Anatomic

Pathology Order Dialog

**Figure 3:** Application Context Diagram

Table 1 below provides a breakdown of the application context description.

**Table 1(Grouping):** Application Context Description Object

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Interface**  **Name** | **Interface**  **System** |
| Laboratory  Anatomic  Pathology  Package | Anatomic  Pathology subsection  of the VistA Laboratory  package | VistA Laboratory Anatomic Pathology  Package |  | M code |
| VistA | VistA  DBMS | VistA database |  | M code/Remote  procedure calls |
| CPRS | CPRS  Delphi GUI | CPRS Graphical User Interface | CPRSChart | Delphi  code/Remote  Procedure calls |

**3.1.2. High-Level Application Design**

This section describes the high level design for the CPRS Anatomic Pathology Order Dialog functionality.

Table 2 below provides a breakdown of the objects in the high level application design**.**

**Table 2:** Objects / Components to be Built or Modified

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Service or Legacy Code** | **External Interface Name** | **External**  **Interface ID** | **Internal Interface Name** | **Internal**  **Interface ID** | **SDP Sections**  **1&2** |
| Laboratory  Anatomic Pathology Package | Anatomic  Pathology subsection of the VistA Laboratory package | VistA  Laboratory Anatomic Pathology Package | VistA |  |  |  |  |  |
| VistA | VistA  DBMS | VistA  database | VistA |  |  |  |  |  |
| CPRS | CPRS  Delphi  GUI | CPRS  Graphical User Interface | CPRS |  |  |  |  |  |

Table 3 provides a breakdown of the internal data stores.

**Table 3:** Internal Data Stores

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Data Stored** | **Steward** | **Access** |
| VistA | VistA | Laboratory Data | VistA | No Changes |

**3.1.3. Application Locations**

There are no application changes identified at this time.

**3.2. Conceptual Data Design**

1. A new multiple field must be added to the LAB ORDER ENTRY file (69) so that multiple collection samples and specimens entered via Anatomic Pathology order dialog will be able to be stored.

2. Additional Anatomic Pathology information must be collected during the ordering process. The new prompts include; Clinical History, Pre-Operative Diagnosis, Operative Findings, Submission Type, Laterality, and Specimen Description. This data will be captured and stored in the ORDERS file (100), LAB ORDER ENTRY (#69), ACCESSION file (#68) and LAB DATA file (#63).

3. The Laboratory Anatomic Pathology Log-In functionality must be modified to recognize an Anatomic Pathology order, accession the order and utilizing a new API, and obtain all additional data needed for a valid Anatomic Pathology accession and stub record in the LAB DATA file (63).

4. Once a valid Stub record is set into the LAB DATA file (63) this information will be viewable from the LABS tab in CPRS under the appropriate Anatomic Pathology reports subsection.

5. The data now stored in file 63 will be available to the pathologist when utilizing AP

specific options.

6. The final report release will function as it currently does with the legacy Anatomic Pathology process resulting in a completed CPRS order and results report viewable from all CPRS and VistA report options.

**3.2.1. Project Conceptual Data Model**

No changes to the Conceptual Data Model are anticipated as a part of this project.

**3.2.2. Database Information**

The VistA database modifications listed below will be part of this effort.

**Table 4**: Database Inventory

|  |  |  |  |
| --- | --- | --- | --- |
| **Database Name** | **Description** | **Type** | **Steward** |
| VistA Laboratory | Legacy Laboratory  Module used for performing and reporting laboratory tests/results. | HL7 array Order  Message modified to include a new ZAP segment  New LR ASK ON ENTRY file (21661) New AOE SP SPECIMEN field (#21661) added to LAB ORDER ENTRY file (69). | Pathology and  Laboratory Medicine  Services Order/Entry Results Reporting |

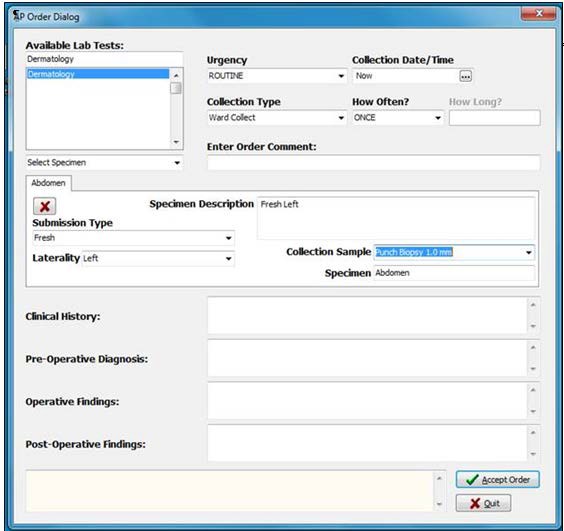
**3.2.3. User Interface Data Mapping**

This section describes and defines the format and information that will be available for users of the product to be able to enter data into the database or to retrieve information from the database if applicable.

**3.2.3.1. Application Screen Interface**

**3.2.3.1.1. AP Order Dialog Screen**

Figure 4 is a prototype of the AP Order Dialog screen.



**Figure 4:** AP Order Dialog Screen

Table 5 below describes the AP Order Dialog screen seen in Figure 4.

**Table 5:** AP Order Dialog Screen Description

|  |  |  |  |
| --- | --- | --- | --- |
| **Graphical User Interface (GUI) Field** | **Table (Database Table that field connects to)** | **Field (Field in Table that the GUI field connects to)** | **Comments** |
| Available Lab Tests | File 100 ORDER FILE | 100 .1  ORDERABLE ITEM  100;4.5  RESPONSES | Order Dialog: OR GTX  ORDERABLE ITEM(legacy) |
| Urgency | File 100 ORDER  FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX LAB  URGENCY(legacy) |
| Collection Date/Time | File 100 ORDER  FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  STARTDATE/TIME(legacy) |
| Collection Type | File 100 ORDER  FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  COLLECTION TYPE(legacy) |
| How Often | File 100 ORDER  FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX ADMIN  SCHEDULE(legacy) |
| How Long | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  DURATION(legacy) |
| Enter Order Comment | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX WORD  PROCESSING 1(legacy) |
| Submission Type | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  SUMBISSION TYPE |
| Laterality | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  LATERALITY |
| Specimen Description | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  SPECIMEN DESCRIPTION |
| Collection Sample | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  COLLECTION SAMPLE(legacy) |
| Specimen | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  SPECIMEN(legacy) |
| Clinical History | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  CLINICAL HISTORY |
| Pre-Operative  Findings | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX PRE  OPERATIVE FINDINGS |
| Operative Findings | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX  OPERATIVE FINDINGS |
| Post-Operative  Findings | File 100 ORDER FILE | 100;4.5  RESPONSES | Order Dialog: OR GTX POST  OPERATIVE FINDINGS |
| Order Text | File 100 ORDER FILE | 100.0081;.01  ORDER TEXT | Set via RPC/Fileman(legacy) |
|  |  |  |  |

**3.2.3.2. Application Report Interface**

There are no planned changes or additions to existing reports at this time.

**3.2.3.3. Unmapped Data Element**

There are no Unmapped Data Elements identified at this time.

**3.3. Conceptual Infrastructure Design**

There are no new infrastructure components; the current system will be enhanced to support the streamlined AP Order process outlined above.

**3.3.1. System Criticality and High Availability**

This is not required of this project.

**3.3.2. Special Technology**

No special technology has been identified as required for this project.

**3.3.3. Technology Locations**

There is no special technology identified, therefore location identity is not required.

**3.3.4. Conceptual Infrastructure Diagram**

**3.3.4.1. Location of Environments and External Interfaces**

There are no changes to the location of environments and/or external interfaces.

**3.3.4.2. Conceptual Production String Diagram**

There are no Production String additions anticipated for this project.

**4. System Architecture**

**4.1. Hardware Architecture**

No changes to VistA Hardware requirements will be required for the VistA Anatomic Pathology

Orders Dialog capability.

**4.2. Software Architecture**

VistA Legacy Laboratory is a module within the VistA system and it will contain the mechanism for clinicians to provide required patient-specific, procedure-specific and specimen-specific information to facilitate specimen processing by pathologists.

The VistA Evolution Anatomic Pathology Orders Dialog enhancement patches will add the ability to electronically create, view, update, and edit an AP Order anytime during the AP Order process; use electronic order entry to properly and accurately process AP Orders; use standardized and specialized templates to enter procedure and specimen-specific lab request information that can be used by the AP lab to process and evaluate associated AP Order lab

specimen submissions; electronically match the AP Order lab specimen request to the patient and specimen at the time of collection and at time of labeling; and F*uture Requirement once BCE*

*Project Re-started:* Provide required patient and preliminary AP Order lab specimen information to the Point of Care Specimen Collection System that can be used for AP specimen collection.

**4.3. Network Architecture**

No changes to the existing VistA network architecture.

**4.4. Service Oriented Architecture / ESS**

This project provides processing changes to the existing VistA Laboratory system. No new services or changes to services are planned. The VistA Laboratory still provides Anatomic Pathology results to the VA enterprise and consumes requests for laboratory tests (i.e., lab orders).

**4.5. Enterprise Architecture**

The VistA Anatomic Pathology Order Dialog capability is an enhancement to the VistA Legacy system and all tools used in development are approved on the VA Technical Reference Model (TRM)/ Standards Profile (SP).

The current TRM/SP is located VA Enterprise Architecture (EA) v2.1 at

**5. Data Design**

The VistA Anatomic Pathology functionality will add M routine modifications to the Laboratory and Order Entry/Results Reporting packages to handle the bi-directional communications needed for order creation between CPRS and Laboratory. New multiple fields will be added to the LAB ORDER ENTRY file to handle the multiple collection sample and specimens required for Anatomic Pathology. A new Delphi/CPRS order dialog will be created using the national lab dialog (LR OTHER LAB TESTS) code as a starting point. A new file (TBD) will be needed to configure the Delphi form properties needed for specific anatomic pathology tests. A new file (TBD) will be needed to configure which Anatomic pathology data values are to be retrieved from the ORDERS FILE (#100) based on the selected test. New entries into the COLLECTION SAMPLE file (#62) and TOPPGRAPHY FIELD file (#61) will be required.

**5.1. DBMS Files**

**5.2. Non-DBMS Files**

There are no Non-DBMS files associated with this project. All file references will be native to the existing VistA (legacy) database.

**5.3. Data View**

There is no change to the Data View with this project. The logical data model of the system will remain the same.

**6. Detailed Design**

**6.1. Hardware Detailed Design**

No additional hardware to support Anatomic Pathology Order Dialog enhancement is anticipated. The enhancements will be released as a multi-build for v32.x CPRS.

**6.2. Software Detailed Design**

**6.2.1. Conceptual Design**

**6.2.1.1. Product Perspective**

See Section 3.

**6.2.1.1.1. User Interfaces**

A new CPRS Anatomic Pathology order dialog (Delphi) will be created.

**6.2.1.1.2. Hardware Interfaces**

No planned additions or modifications to hardware interfaces are identified at this time for the

VLE APOD enhancement.

**6.2.1.1.3. Software Interfaces**

The HL7 structured array used to communicate between the VistA Lab AP Package and CPRS will have to be modified to allow Laboratory to recognize and accept the new order message from CPRS.

**6.2.1.1.4. Communications Interfaces**

See Sections 3 and 7.

**6.2.1.1.5. Memory Constraints**

No memory constraints are identified at this time for the VLE APOD enhancement.

**6.2.1.1.6. Special Operations**

No special operations are identified at this time for the VLE APOD enhancement.

**6.2.1.2. Product Features**

This section outlines the features of the VistA Anatomic Pathology order dialog functionality in

CPRS.

New Delphi order dialog (LR OTHER AP TESTS)

This new dialog contains all the following required laboratory prompts necessary for the

Laboratory Package to accept and file the new order in the LAB ORDER ENTRY file (69):

• Available Lab Tests (screened to allow just Anatomic Pathology subscripted tests)

• Existing lab dialog prompts

• Collection Type

• Collection date/time

• Collect Sample

• Specimen

• Urgency

• How Often/How long

• Order comment

• New Anatomic Pathology prompts

• Submission Type

• Laterality

• Specimen (multiples functionality

• Specimen Description

• Collection Sample

• Specimen

• Clinical History

• Pre-Operative Diagnosis

• Operative Findings

• Post-Operative Diagnosis

**6.2.1.3. User Characteristics**

The intended users for the Anatomic Pathology Order Dialog are surgeons.

**6.2.1.4. Dependencies and Constraints**

• Comply with 508 standards

• Comply with VistA Legacy Order Entry/Results Reporting to Laboratory communication schema.

• Use VistA Legacy Laboratory module

**6.2.2. Specific Requirements**

**6.2.2.1. Database Repository**

The VistA Anatomic Pathology Order Dialog function leverages the current VistA Laboratory Modules and Order Entry/Result Reporting databases. New fields will be added to support the multiple collection sample/specimen functionality. New files will be added to support configuration.

**6.2.2.2. System Features**

System features for the VistA Anatomic Pathology Order Dialog are described below in this section.

**6.2.2.3. Design Element Tables**

**6.2.2.3.1 Routines (Entry Points)**

**6.2.2.3.1.1 Modify ORMBLDLR**

This routine builds the HL7 structured array used by CPRS to communicate with the Laboratory

Module upon new order release. Table 6 provides instructions for the ORMBLDR routine.

**Table 6**: ORMBLDLR

|  |  |
| --- | --- |
| **Routines** | **Instructions** |
| **Routine Name** | Routine ORMBLDLR |
| **Enhancement Category** | Modify |
| **RTM** |  |
| **Related Options** | LR OTHER AP TESTS order dialog (new) |
| **Related Routines** | LR7OF0 |
| **Data Dictionary (DD) References** | None |
| **Related Protocols** | None |
| **Related Integration**  **Control Registrations**  **(ICRs)** | None |
| **Data Passing** | Invoked by ORMBLD which is invoked by ORCSEND as part of the sign  and release process from within CPRS |
| **Input Attribute Name and**  **Definition** | New AP1 segment added to message array for orderable items that have  Anatomic Pathology as a display group  AP1 segment value is IEN to LR ASK ON ENTRY file (#21661) |
| **Output Attribute Name**  **and Definition** | None |
| **Current Logic** | See below. |
| **Modified Logic (Changes are in bold)** | AP ; -- new Lab AP order  ; fall through to CH - no difference at this time  CH ; -- new Lab CH order  N IP,OI,START,STOP,URG,CMMT,INST,I,J,X  S START=$P($G(^OR(100,IFN,0)),U,8),STOP=$P($G(^(0)),U,9)  S OI=$$PTR("OR GTX ORDERABLE ITEM"),URG=$$PTR("OR GTX LAB URGENCY")  S CMMT=$$PTR("OR GTX WORD PROCESSING 1")  S IP="" ;$S($D(^OR(100,<ISOLATION ORDER FOR DFN>)):1,1:0)  S $P(ORMSG(4),"|",8)="^^^"\_$$HL7DATE(START)\_U\_$$HL7DATE( STOP)  S I=4,INST=0 F S INST=$O(ORDIALOG(OI,INST)) Q:INST'>0 D  .  S X=+$G(ORDIALOG(URG,INST)),X=$P($G(^LAB(62.05,X,0)),U,4)\_"  ;"\_X  .  S I=I+1,ORMSG(I)="OBR||||"\_$$USID^ORMBLD(ORDIALOG(OI, INST))\_"|||||||"\_$$COLLTYPE\_"|"\_IP\_"|||"\_$$SPEC\_"|||||||||  |||^^^^^"\_X  . S J=$O(^TMP("ORWORD",$J,CMMT,INST,0)) Q:'J ; no comments for |

test

.

S I=I+1,ORMSG(I)="NTE|"\_INST\_"|P|"\_^TMP("ORWORD",$J,CM MT,INST,J,0)

. S L=0 F S J=$O(^TMP("ORWORD",$J,CMMT,INST,J)) Q:J'>0

S L=L+1,ORMSG(I,L)=^(J,0)

; Add DG1 & ZCL segment(s) for Billing Aware

D DG1^ORWDBA3($G(IFN),"I",I) Q

;

AP ; -- new Lab AP order

; fall through to CH - no difference at this time

CH ; -- new Lab CH order

N IP,OI,START,STOP,URG,CMMT,INST,I,J,X

S START=$P($G(^OR(100,IFN,0)),U,8),STOP=$P($G(^(0)),U,9)

S OI=$$PTR("OR GTX ORDERABLE ITEM"),URG=$$PTR("OR GTX LAB URGENCY")

S CMMT=$$PTR("OR GTX WORD PROCESSING 1")

S IP="" ;$S($D(^OR(100,<ISOLATION ORDER FOR DFN>)):1,1:0)

S $P(ORMSG(4),"|",8)="^^^"\_$$HL7DATE(START)\_U\_$$HL7DATE(

STOP)

S I=4,INST=0 F S INST=$O(ORDIALOG(OI,INST)) Q:INST'>0 D

.

S X=+$G(ORDIALOG(URG,INST)),X=$P($G(^LAB(62.05,X,0)),U,4)\_"

;"\_X

.

S I=I+1,ORMSG(I)="OBR||||"\_$$USID^ORMBLD(ORDIALOG(OI, INST))\_"|||||||"\_$$COLLTYPE\_"|"\_IP\_"|||"\_$$SPEC\_"|||||||||

|||^^^^^"\_X

. ;DSS/RAF - BEGIN MOD 8/28/2015 add AOE and AP1 segment processing

.

N DATA,DIERR S DATA=$$FIND1^DIC(19641.41,,"X",ORIFN\_";OR(

100,","B") I DATA D

. . S I=I+1,ORMSG(I)="AOE||"\_ORIFN\_";OR(100,"\_U\_DATA

. N DIERR I ORDG=$$FIND1^DIC(100.98,,"X","ANATOMIC

PATHOLOGY","B") D

. . N LST S I=I+1,ORMSG(I)="AP1|"\_$$APSUB(ORIFN) ;only provide

21661 file IEN for SP , CY or EM tests

. ;DSS/RAF - END MOD

. S J=$O(^TMP("ORWORD",$J,CMMT,INST,0)) Q:'J ; no comments for test

.

S I=I+1,ORMSG(I)="NTE|"\_INST\_"|P|"\_^TMP("ORWORD",$J,CM

MT,INST,J,0)

. S L=0 F S J=$O(^TMP("ORWORD",$J,CMMT,INST,J)) Q:J'>0

S L=L+1,ORMSG(I,L)=^(J,0)

; Add DG1 & ZCL segment(s) for Billing Aware

D DG1^ORWDBA3($G(IFN),"I",I) Q

;

. . .

XO1 D GETDLG1^ORCD(ORDIALOG),GETORDER^ORCD(+IFN) S I=0 F S I=$O(ORNEW(I)) Q:I'>0 I '$D(OROLD(I)) D

. S CNT=CNT+1,TEST=I,INST=$P(ORNEW(I),U,3)

. S ORMSG(CNT)="OBR|"\_(CNT-

3)\_"|||"\_$$USID^ORMBLD(TEST)\_"|||||||A||||"\_$$SPEC\_"||||

||||||||^^^^^"\_$P($G(^ORD(101.42,+$G(ORDIALOG(URG,INST)),

0)),U,2)

. S J=$O(^TMP("ORWORD",$J,CMMT,INST,0)) Q:'J ; no comments for test

.

S CNT=CNT+1,ORMSG(CNT)="NTE|"\_INST\_"|L|"\_^TMP("ORWO RD",$J,CMMT,INST,J,0)

. S L=0 F S J=$O(^TMP("ORWORD",$J,CMMT,INST,J)) Q:J'>0

S L=L+1,ORMSG(CNT,L)=^(J,0)

S I=ORDIALOG K ORDIALOG S ORDIALOG=I

D GETDLG1^ORCD(ORDIALOG),GETORDER^ORCD(OROLD) S I=0 F S I=$O(OROLD(I)) Q:I'>0 I '$D(ORNEW(I)) D

. S CNT=CNT+1,TEST=I,INST=$P(OROLD(I),U,3)

. S ORMSG(CNT)="OBR|"\_(CNT-

3)\_"|||"\_$$USID^ORMBLD(TEST)\_"|||||||3||||"\_$$SPEC\_"|||||

|||||||^^^^^"\_$P($G(^ORD(101.42,+$G(ORDIALOG(URG,INST)),0

)),U,2)

. S J=$O(^TMP("ORWORD",$J,CMMT,INST,0)) Q:'J ; no comments for test

.

S CNT=CNT+1,ORMSG(CNT)="NTE|"\_INST\_"|L|"\_^TMP("ORWO RD",$J,CMMT,INST,J,0)

. S L=0 F S J=$O(^TMP("ORWORD",$J,CMMT,INST,J)) Q:J'>0

S L=L+1,ORMSG(CNT,L)=^(J,0)

D MSG^XQOR("OR EVSEND "\_DG,.ORMSG) Q

;DSS/RAF - BEGIN MOD - determine Anatomic Path test subscript for

AP1 segment

APSUB(ORIFN) ;

N DIERR,ERR,ITEM,SUB,TESTIEN

S ITEM=$$VALUE^ORX8(+ORIFN,"ORDERABLE",,"I")

S TESTIEN=+$$GET1^DIQ(101.43,ITEM\_",",2,"E","ERR") S SUB=$$GET1^DIQ(60,TESTIEN\_",",4,"I","ERR")

Q $S(SUB="CY":102,SUB="SP":116,SUB="EM":117,1:0) ;returns AOE

template file 21661 IEN

**6.2.2.3.1.2 Modify LR7OF0**

Table 7 provides instructions for the LR7OF0 routine.

**Table 7**: LR7OF0

|  |  |
| --- | --- |
| **Routines** | **Instructions** |
| **Routine Name** | Routine LR7OF0 |
| **Enhancement Category** | Modify |
| **RTM** |  |
| **Related Options** | None |
| **Related Routines** | ORMBLDLR |
| **Data Dictionary (DD)**  **References** | None |
| **Related Protocols** | None |
| **Related Integration**  **Control Registrations**  **(ICRs)** | None |
| **Data Passing** | Invoked by XQOR as part of the sign and release process from within  CPRS |
| **Input Attribute Name and**  **Definition** | LRLL= IEN in 68.2 Load Worklist file, from field in 62.4  LRINST= IEN IN 62.4 Auto Inst file  LRAUTO= zero node of 62.4 entry  LA76248= IEN in 62.48 Message Parameter file |
| **Output Attribute Name**  **and Definition** | None |
| **Current Logic** | See below. |
| **Modified Logic (Changes are in bold)** | EN(MSG,MSGTYPE) ;Route all messages from here  -  . I $P(LRXMSG,"|")="DG1" D DG1^LRBEBA2(LRXMSG) Q ; CIDC  . I $P(LRXMSG,"|")="ZCL" D ZCL^LRBEBA2(LRXMSG) Q ; CIDC  . I $P(LRXMSG,"|")="NTE" D NTE^LR7OF2 Q ;Order comments  . D ACK("DE",LRXORC,"Unrecognized Message segment: "\_$P(LRXMSG,"|")) Q  I LREND S LREND=0 D END Q  I NORC D ACK("OC",LRXORC,"Incomplete transaction...no ORC  segment in message!") D END Q  I NOBR D ACK("OC",LRXORC,"Incomplete transaction...no OBR  segment in message") D END Q  I LRXTYPE="NW" D ;Process new order request  . N REJECT  .  S LROLLOC=LOCP,LRLLOC=$S($L($G(LOCA)):LOCA,1:"UNKNOW  N"),LRPRAC=PROV,LROUTINE=$P(^LAB(69.9,1,3),"^",2)  . I $D(^TMP("OR",$J,"LROT")) S LRSDT=0 D  .. F S LRSDT=$O(^TMP("OR",$J,"LROT",LRSDT)) Q:LRSDT<1  S LRXZ="" F LRI=0:0  S LRXZ=$O(^TMP("OR",$J,"LROT",LRSDT,LRXZ)) |

Q:LRXZ="" S LRODT=$P(LRSDT,".") D

... I $G(MSGTYPE)="LRAP" D EN^LR7OFA1 Q

... D EN^LR7OF1

.

D END,ACK("OK","ORC|OK|"\_LRPLACR\_"|"\_LRORD\_";"\_LROD T\_";"\_LRSN\_"^"\_$S($G(MSG)="BBMSG":"LRBB",$G(MSG)="APMSG ":"LRAP",1:"LRCH"),"")

Q

EN(MSG,MSGTYPE) ;Route all messages from here

-

. I $P(LRXMSG,"|")="DG1" D DG1^LRBEBA2(LRXMSG) Q ; CIDC

. I $P(LRXMSG,"|")="ZCL" D ZCL^LRBEBA2(LRXMSG) Q ; CIDC

. I $P(LRXMSG,"|")="NTE" D NTE^LR7OF2 Q ;Order comments

. ;DSS/RAF - BEGIN MOD - 8/25/2015 added AP1 segment stub awaiting special processing routine

. I $P(LRXMSG,"|")="AP1" D AP1^VFDLRMG(.MSG,VAL) Q ;Call to get CPRS AP Order data

. ;DSS/RAF - END MOD

. ;DSS/FHS - MOD TO CALL IN^VFDLRMG WITH MSG array & LRXMSG Value

. D ACK("DE",LRXORC,"Unrecognized Message segment: "\_$P(LRXMSG,"|")) Q

I LREND S LREND=0 D END Q

I NORC D ACK("OC",LRXORC,"Incomplete transaction...no ORC

segment in message!") D END Q

I NOBR D ACK("OC",LRXORC,"Incomplete transaction...no OBR

segment in message") D END Q

I LRXTYPE="NW" D ;Process new order request

. N REJECT

.

S LROLLOC=LOCP,LRLLOC=$S($L($G(LOCA)):LOCA,1:"UNKNOW N"),LRPRAC=PROV,LROUTINE=$P(^LAB(69.9,1,3),"^",2)

. I $D(^TMP("OR",$J,"LROT")) S LRSDT=0 D

.. F S LRSDT=$O(^TMP("OR",$J,"LROT",LRSDT)) Q:LRSDT<1

S LRXZ="" F LRI=0:0

S LRXZ=$O(^TMP("OR",$J,"LROT",LRSDT,LRXZ)) Q:LRXZ="" S LRODT=$P(LRSDT,".") D

... I $G(MSGTYPE)="LRAP" D EN^LR7OFA1 Q

... D EN^LR7OF1

.

D END,ACK("OK","ORC|OK|"\_LRPLACR\_"|"\_LRORD\_";"\_LROD

T\_";"\_LRSN\_"^"\_$S($G(MSG)="BBMSG":"LRBB",$G(MSG)="APMSG ":"LRAP",1:"LRCH"),"")

Q

**6.2.2.3.1.3 Add VFDLRMG**

Table 8 provides instructions for the VFDLRMG routine.

**Table 8**: VFDLRMG

|  |  |
| --- | --- |
| **Routines** | **Instructions** |
| **Routine Name** | Routine VFDLRMG |
| **Enhancement Category** | New |
| **RTM** |  |
| **Related Options** | None |
| **Related Routines** | LR7OF0 |
| **Data Dictionary (DD) References** | None |
| **Related Protocols** | None |
| **Related Integration**  **Control Registrations**  **(ICRs)** | None |
| **Data Passing** | Invoked by LR7OF0 as part of the processing of a new order from CPRS. |
| **Input Attribute Name and**  **Definition** | This routine is use to pull multiple collection samples and specimens from  the ORDER file (#100) as well as any other data stored as a result of the  additional Anatomic Pathology dialog prompts activated during the CPRS order entry process when utilizing the new Anatomic Pathology Order Dialog. |
| **Output Attribute Name**  **and Definition** | *None* |
| **Current Logic** | See below. |
| **Modified Logic (Changes are in bold)** | VFDLRMG ;DSS/FHS - VFD INBOUND CPRS MESSAGE  HANDLER  ;;2013.1;VENDOR - DOCUMENT STORAGE SYS;\*\*16,29\*\*;;05 May  2014  Q  AOE(MSG,LRAOE) ; ENTRY POINT OF INCOMING OERR MASSAGE IN MSB FORMATE  ; MSG = THE CPRS MASSSAGE ARRAY CONTAINING AOE DATA FORM THE  ; ROUTINE LR7OFA0  ; LRAOE="AOE||1495;OR(100,^1"  ; LRDSIO=$P(LRAOE,U,2) K CNT,LRDSIO  S CNT=+$G(^XTMP("LRAOE",1,0))+1,$P(^XTMP("LRAOE",1,0), U)=CNT  S LRDSIO=+$P($G(LRAOE),U,2)  S ^XTMP("LRAOE",1,CNT,.01)=$G(ORIFN)\_U\_$G(LRDFN)\_U\_L  RDSIO  S ^XTMP("LRAOE",1,CNT,.02)=LRAOE  S ^XTMP("LRAOE",1,CNT,.03)=$G(LRODT)\_U\_$G(LRSN)  S ^XTMP("LRAOE","B",+$G(ORIFN),CNT)="",^XTMP("LRAOE ","C",+$G(LRDFN),CNT)=""  S ^XTMP("LRAOE","D",LRDSIO,CNT)="" |

M ^XTMP("LRAOE",1,CNT)=MSG AOELOAD ;Call ZTLOAD with CNT value

N ZTIO,ZTRTN,ZTDTH,ZTDESC,ZTSAVE

S ZTSAVE("ORIFN")="",ZTSAVE("LRDSIO")="",ZTSAVE("LRA

OE")=""

S ZTSAVE("CNT")="",ZTIO="",ZTDTH=$H,ZTDESC="VFDLR PROCESS CPRS AOE MESSAGE"

S ZTRTN="TASKAOE^VFDLRMG" D ^%ZTLOAD

Q

TASKAOE ;Entry point for task -

;Pass in CNT from ^XTMP("LRAOE",1,CNT) GLOBAL

S ORIFN=+$G(^XTMP("LRAP1",1,CNT,.01)),LRDFN=$P(^(.01),U

,2)

;",3)

S LRREF=$$GET1^DIQ(100,ORIFN\_",",33,"I","","ERR")

S LRORD=+LRREF,LRODT=$P(LRREF,";",2),LRSN=$P(LRREF,"

S LRSCR=$P(^XTMP("LRAP1",1,CNT,.02),"|",2)

I $G(ORIFN) S $P(^XTMP("LRAOE",1,0),U,2)=$G(CNT) Q

AP1(MSG,LRAP1) ;Entry point to process AP orders

N CNT,LRDSIO

S CNT=+$G(^XTMP("LRAP1",1,0))+1,$P(^XTMP("LRAP1",1,0),U)

=CNT

S ^XTMP("LRAP1",1,CNT,.01)=$G(ORIFN)\_U\_$G(LRDFN) S ^XTMP("LRAP1",1,CNT,.02)=LRAP1

S ^XTMP("LRAP1","B",+$G(ORIFN),CNT)="",^XTMP("LRAP1"," C",+$G(LRDFN),CNT)=""

M ^XTMP("LRAP1",1,CNT)=MSG AP1LOAD ;Call ZTLOAD with CNT value

N ZTIO,ZTRTN,ZTDTH,ZTDESC,ZTSAVE

S ZTSAVE("ORIFN")="",ZTLOAD("LRAP1")="",ZTLOAD("LRD FN")=""

S ZTSAVE("CNT")="",ZTIO="",ZTDTH=$H,ZTDESC="VFDLR

PROCESS CPRS AOE MESSAGE"

S ZTRTN="TASKAP1^VFDLRMG"

D ^%ZTLOAD Q

TASKAP1 ;Entry point for TASK

;Pass CNT from ^XTMP("LRAP1",

;

K ^TMP("LRAOE",$J)

N DATA,IEN,IENX,IENXX,LRCOM,LRCOL,LRCOLROOT,LRD FN,LRFIELD,LRFILE

N LRID,LRJ,LRODT,LRORD,LRQS,LRREF,LRSAMP,LRSCR

N LRSN,LRSP,LRSPCOM,LRSPDATA,LRSPROOT,LRTXT,VAL,X

,Y,LRSPCOMROOT

S LRSCR=$P(LRAP1,"|",2),LRJ=$J

S LRREF=$$GET1^DIQ(100,ORIFN\_",",33,"I","","ERR")

S LRORD=+LRREF,LRODT=$P(LRREF,";",2),LRSN=$P(LRREF,"

;",3)

S VAL=$$ID(ORIFN,LRSCR)

I $O(LRID(""))'="" D DD

S LRTXT="" F S LRTXT=$O(^TMP("LRAOE",$J,LRTXT)) Q:LRTXT="" I $D(LRID(LRTXT)) D

.

S VAL=$P(LRID(LRTXT),U,3),LRFILE=+VAL,LRFIELD=$P(VAL,",",

2)

. ;W !!,"["\_LRTXT\_"] "\_LRFILE\_"("\_LRFIELD\_")",!

. S IENX=$O(^TMP("LRAOE",$J,LRTXT,0))

. I $P(LRID(LRTXT),U,4)="WP" D

. . S IENXX=0

F S IENXX=$O(^TMP("LRAOE",$J,LRTXT,IENX,IENXX)) Q:IENXX="" D

. . . ;W !,^(IENXX,0)

K LRSP,LRCOL,LRQS,LRSPDATA

S LRSP="SPECIMEN",LRCOL="SAMPLE",LRCOM="SPECCOM

"

S LRSPROOT="^TMP(""LRAOE"","\_$J\_",""SPECIMEN"")" S LRCOLROOT="^TMP(""LRAOE"","\_$J\_",""SAMPLE"")"

S LRSPCOMROOT="^TMP(""LRAOE"","\_$J\_",""SPECCOM"")" F S LRSPROOT=$Q(@LRSPROOT)

Q:LRSPROOT="" Q:$QS(LRSPROOT,2)'=$J Q:$QS(LRSPROOT,3)'[L RSP D

. S LRQS=$G(LRQS)+1,LRSP(LRQS)=@LRSPROOT

.

S LRCOLROOT=$Q(@LRCOLROOT),LRCOL(LRQS)=@LRCOLRO OT

.

S LRSPCOMROOT=$Q(@LRSPCOMROOT),LRSPCOM(LRQS)=@LR

SPCOMROOT

S IEN=0 F S IEN=$O(LRSP(IEN)) Q:IEN<1

S LRSPDATA(IEN)=LRSPCOM(IEN)\_U\_LRSP(IEN)\_U\_LRCOL(IEN)

;W !,LRSPDATA(IEN)

D AOESP69(LRODT,LRSN,.LRSPDATA) S $P(^XTMP("LRAP1",1,0),U,2)=CNT

Q

AP1LOOK(LRAOE) ; Pointer Lookup into a multiple

K DIC,DA,Y,X

S DIC="^VFDLR(21661,"\_LRAOE\_",4,",DA=LRAOE,DA(1)=2166

1

S DIC(0)="AQEZNM" D ^DIC Q

DD ;Get the Data Dictionary values

S LRTXT="" F S LRTXT=$O(LRID(LRTXT)) Q:LRTXT="" D

. S IENX=$O(^VFDLR(21661,LRSCR,4,"B",LRTXT,0))

. S LRID(LRTXT)=^VFDLR(21661,LRSCR,4,IENX,0) Q

TESTAP1 ;

;Load AOE AP1 data

S CNT=3,LRAP1="AP1|102",ORIFN=1582

S LRDFN=6

K ^TMP("LRAOE",$J) Q

ID(ORIFN,LRSCR) ;This is the entry point to extract CPRS user response for at CPRS AOE Window

;INPUT ORIFN=Pointer to ^OR(100,ORIFN

; LRSCR=Pointer to ^VFDLR(21661,LRSCR

;OUTPUT ^TMP("LR",$J,"AOE",

;Return 1 if valid

; 0^error text

;

K IEN,IENX,XXY,LRID,^TMP("LRAOE",$J)

I '$G(^OR(100,ORIFN,0)) Q 0\_"^File 100 entry does not exist"

I '$D(^VFDLR(21661,LRSCR,0)) Q 0\_"^File 21661 entry does not exist"

S IEN=0 F S IEN=$O(^VFDLR(21661,LRSCR,4,IEN)) Q:IEN<1 D

. S LRTXT=$P(^VFDLR(21661,LRSCR,4,IEN,0),U)

. S DATA="^OR(100,"\_ORIFN\_",4.5,""ID"")"

. F S DATA=$Q(@DATA) Q:$QS(DATA,4)'="ID" D

. .

I $QS(DATA,5)[LRTXT S IENX=$QS(DATA,6),VAL=$QS(DATA,5) D

. . . S LRID(LRTXT)=""

. . .

M ^TMP("LRAOE",$J,VAL,IENX)=^OR(100,ORIFN,4.5,IENX,2)

. . . I $D(^OR(100,ORIFN,4.5,IENX,1)) S ^TMP("LRAOE",$J,VAL,IENX,1)=^(1)

Q 1

ORITEM(ORIFN) ;Return the ^LAB(60,IEN orderable item for an CPRS Order

;

N IEN,VAL,RET,ANS,X,Y

S:ORIFN="" ORIFN=1582

S IEN="1,"\_ORIFN\_",",RET=0

S VAL=$$GET1^DIQ(100.001,IEN,.01,"I",.ANS,"ERR") I VAL="" Q RET

I '$D(^ORD(101.43,VAL,"LR")) Q 0

K ERR S VAL(2)=$$GET1^DIQ(101.43,VAL\_",",".01","I",.ANS,"E RR")

S RET=$O(^LAB(60,"B",VAL(2),0))

Q +$G(RET)

;

AOESP69(LRODT,LRSN,LRSPDATA) ;Load AOE Specimen/Sample into ^LRO(69,DT,1,LRSN,

; INPUT SPDATA(X)=LRSP^LRCOL

;

N FDA,IEN,IENX,ERR,ERR2,WPIEN68,NODE,ANS,ANSY,LRSP

,LRCOL

N LRJ,LRNODE

;

S IEN="+1,"\_"1,"\_LRSN\_","\_LRODT\_",",LRJ=$J

S IENX=0 F S IENX=$O(LRSPDATA(IENX)) Q:IENX<1 D

.

S NODE=LRSPDATA(IENX),LRSPCOM=$P(NODE,U),LRSP=+$P(N ODE,U,2),LRSAMP=$P(NODE,U,3)

. Q:$S('LRSP:1,'LRSAMP:1,1:0)

. K FDA,ERR2,ANS

. S ANSY=+$P($G(^LRO(69,LRODT,1,LRSN,4,1,1,0)),U,3)+1

. S FDA(2,69.221661,IEN,.01)=LRSPCOM ;Specimen Description

. S FDA(2,69.221661,IEN,.06)=LRSP ;Specimen ^LAB(61,LRSP

. S FDA(2,69.221661,IEN,.07)=LRSAMP ; Collection Sample

^LAB(62,LRCOL

. D UPDATE^DIE("KS","FDA(2)","ANSY","ERR1")

. D WP ;Load Dialog Data

Q

WP ; Process Word Processing Response - store CPRS dialog from

^TMP("LRAOE"

K INDEX,LRGLOB,LRHEAD

S:'+$G(LRJ) LRJ=8544

S:'+$G(LRSCR) LRSCR=116

S:'+$G(LRODT) LRODT=3150905

S:'+$G(LRSN) LRSN=2

S:'+$G(ORIFN) ORIFN=1582

;

S IEN=0 F S IEN=+$O(^VFDLR(21661,LRSCR,4,IEN)) Q:IEN<1

S LRNODE=^(IEN,0) D

. Q:$P(LRNODE,U,4)'="WP"

. S LRHEAD=$P(LRNODE,U),IENX=0 ;W !,LRHEAD

. S IENX=+$O(^TMP("LRAOE",LRJ,LRHEAD,IENX)) Q:IENX<1

.

S LRGLOB="^TMP(""LRAOE"","\_LRJ\_","""\_LRHEAD\_""","\_IENX\_"

)"

. S INDEX(IENX)=LRGLOB

. ;W !,LRGLOB,!

. D WPSET

. ;F S LRGLOB=$Q(@LRGLOB) Q:$QS(LRGLOB,3)'=LRHEAD D

. ;. W !,@LRGLOB Q

WPSET ;

K FDA,FDAIEN,ANS,ERR2,ERR3,WPIEN

S FDAIEN="?+1,1,"\_LRSN\_","\_LRODT\_","

S FDA(3,69.2216612,FDAIEN,.01)=$P(LRHEAD,U)

S FDA(3,69.2216612,FDAIEN,1)=$P(LRHEAD,U,2) S FDA(3,69.2216612,FDAIEN,2)=$P(LRNODE,U,3) S FDA(3,69.2216612,FDAIEN,3)=$P(LRNODE,U,4) S FDA(3,69.2216612,FDAIEN,3.5)=$G(ORIFN)

K ERR2 D UPDATE^DIE("KS","FDA(3)","ANS","ERR2") S WPIEN=ANS(1)\_",1,"\_LRSN\_","\_LRODT\_","

K ERR2 D WP^DIE(69.2216612,WPIEN,4,"",LRGLOB,"ERR3") Q

**6.2.2.3.1. Templates**

No planned additions or modifications to templates identified at this time for the VLE APOD

enhancement.

**6.2.2.3.2. Bulletins**

No planned additions or modifications to bulletins identified at this time for the VLE APOD

enhancement.

**6.2.2.3.3. Data Entries Affected by the Design**

The following data fields and/or files will be added to support the VLE APOD enhancement:

STANDARD DATA DICTIONARY #21661 -- LR ASK ON ENTRY FILE SEP 15,2015@09:27:07 PAGE 1

STORED IN ^VFDLR(21661, (25 ENTRIES) SITE: VXVISTA.ORG UCI: LAB13,LAB13

|  |  |  |  |
| --- | --- | --- | --- |
| DATA | NAME | GLOBAL | DATA |
| ELEMENT | TITLE | LOCATION | TYPE |

-----------------------------------------------------------------------------------

**LR ASK ON ENTRY (#21661)** file supports the CPRS Ask On Entry (AOE) functionality

and Laboratory Package Laboratory Electronic Data Interchange (LEDI) generation of the HL7 order message. This file contains a listing of AOE screens and question. It also contains the HL7 sequence definition for creating HL7 OBX segments.

Brief description of the AOE function: Step #1 - When a CPRS user selects a

particular laboratory test/specimen pair, the CPRS software will query the laboratory package for any AOE question(s) that the requestor must answer to complete the order. Laboratory Test file point to LR ASK ON ENTRY file to determine the screen(s) that should be presented to the CPRS user to complete the order

process. The LR AOE file contains the question(s) for each CPRS screen the requestor must complete.

Step #2 After the CPRS order has been signed, CPRS will transfer the user's response(s) to the laboratory package for storage.

Step #3 When the outgoing HL7 electronic shipping manifest message is created, by the LEDI software, HL7 OBX segment will be created from the CPRS AOE response(s) using the sequence definitions located in the LR AOE (#21661) file.

DD ACCESS: @ RD ACCESS: @ WR ACCESS: @ DEL ACCESS: @

LAYGO ACCESS: @ AUDIT ACCESS: @

IDENTIFIED BY: SUBSCRIPT (#.06)

POINTED TO BY: AOE SCREEN field (#.01) of the AOE SCREEN sub-field (#60.021661) of the LABORATORY TEST File (#60)

AOE field (#.01) of the AOE sub-field (#60.121661) of the SITE/SPECIMEN sub-field (#60.01) of the LABORATORY TEST File (#60)

VFD AOE field (#.01) of the VFD AOE sub-field (#62.80121661) of the SPECIMENS sub-field (#62.801) of the LAB SHIPPING MANIFEST File (#62.8)

VFDAOE field (#.01) of the VFDAOE sub-field (#68.421661) of the

TESTS sub-field (#68.04) of the ACCESSION NUMBER sub-field (#68.02) of the DATE sub-field (#68.01) of the ACCESSION File (#68)

VFD AOE field (#.01) of the VFD AOE sub-field (#69.321661) of the TEST sub-field (#69.03) of the SPECIMEN # sub-field (#69.01) of the LAB ORDER ENTRY File (#69)

CROSS

REFERENCED BY: NAME(B), SYNONYM(C)

CREATED ON: APR 6,2015 by ZDSSSTALLING,FRANK

21661,.01 NAME 0;1 FREE TEXT (Required) INPUT TRANSFORM: K:$L(X)>50!($L(X)<3)!'(X'?1P.E) X

LAST EDITED: APR 06, 2015

HELP-PROMPT: Answer must be 3-50 characters in length. DESCRIPTION: This field contains the AOE CPRS screen name. The

name format is Screen number-Screen Title Header. The field screen number that is three digits beginning with 100 is the internal entry number (IEN) such that the number portion of the name is dinum to the file entry. Example IEN 101 =

101-FASTING STATUS

CROSS-REFERENCE: 21661^B

1)= S ^VFDLR(21661,"B",$E(X,1,30),DA)=""

2)= K ^VFDLR(21661,"B",$E(X,1,30),DA)

21661,.05 CPRS SCREEN 0;3 SET

'1' FOR YES; LAST EDITED: JUN 03, 2015

DESCRIPTION: This field indicates if this entry is used as a

CPRS AOE display screen.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 21661,.06 | SUBSCRIPT | 'MI' | 0;4  FOR | SET  MI; |
|  |  | 'BB' | FOR | BB; |
|  |  | 'EM' | FOR | EM; |
|  |  | 'SP' | FOR | SP; |
|  |  | 'CY' | FOR | CY; |
|  |  | 'AU' | FOR | AU; |
|  |  | 'CH' | FOR | CH; |

LAST EDITED: SEP 05, 2015

DESCRIPTION: This the subscript for this entry. This field is used to screen AOE Screen in LABORATORY TEST (#60) file.

21661,1 SYNONYM 0;2 FREE TEXT INPUT TRANSFORM: K:$L(X)>15!($L(X)<3) X

LAST EDITED: JUN 16, 2015

HELP-PROMPT: Answer must be 3-15 characters in length. DESCRIPTION: This field is used as a synonym for the CPRS AOE

screen. Entries can be look-up by the contents of

this field. An abbreviation or user friendly term for the screen name.

CROSS-REFERENCE: 21661^C

1)= S ^VFDLR(21661,"C",$E(X,1,30),DA)=""

2)= K ^VFDLR(21661,"C",$E(X,1,30),DA)

21661,2 QUESTION 1;0 Multiple #21661.02

LAST EDITED: MAY 30, 2015

DESCRIPTION: This field is a multiple that contains a list of AOE question that the CPRS user should answer when ordering this test.

21661.02,.01 QUESTION 0;1 FREE TEXT (Multiply asked) INPUT TRANSFORM: K:$L(X)>50!($L(X)<1) X

LAST EDITED: MAY 30, 2015

HELP-PROMPT: Answer must be 1-50 characters in length. DESCRIPTION: This field contains a single AOE question listed

on the CPRS screen window. There is an entry for each question to be asked in the CPRS screen window. The entry is IEN sensitive. Question #1 must be IEN #1.

Caution must be taken when entering of deleting to ensure that question #1 is IEN #1. Question

#2 is IEN #2

CROSS-REFERENCE: 21661.02^B

1)= S ^VFDLR(21661,DA(1),1,"B",$E(X,1,30),DA)=""

2)= K ^VFDLR(21661,DA(1),1,"B",$E(X,1,30),DA)

21661.02,1 UNITS 0;2 FREE TEXT INPUT TRANSFORM: K:$L(X)>20!($L(X)<1) X

LAST EDITED: JUN 18, 2015

HELP-PROMPT: Answer must be 1-20 characters in length. DESCRIPTION: This field is used to identify what units, if

any, the response to the question is using. It is not used for encoding the HL7 message. Useful for viewing/reviewing entries in this file.

21661.02,2 31CODE LN;1 FREE TEXT INPUT TRANSFORM: K:$L(X)>15!($L(X)<1) X

LAST EDITED: JUN 18, 2015

HELP-PROMPT: Answer must be 1-15 characters in length. DESCRIPTION: This fields data to be used in HL7 message, OBX

Seq 3 code number.

|  |  |  |
| --- | --- | --- |
| 21661.02,2.1 | 32CODE TXT | LN;2 FREE TEXT |
|  | INPUT TRANSFORM: | K:$L(X)>150!($L(X)<1) X |

LAST EDITED: MAY 30, 2015

HELP-PROMPT: Answer must be 1-150 characters in length. DESCRIPTION: This fields data is used in HL7 message OBX Seq

3.2 Text of the code for the number appearing in

Seq 3.1.

21661.02,2.2 33CODE SYS LN;3 FREE TEXT

INPUT TRANSFORM: K:$L(X)>5!($L(X)<1) X LAST EDITED: MAY 30, 2015

HELP-PROMPT: Answer must be 1-5 characters in length.

21661.02,2.3 DATA TYPE 0;3 POINTER TO HL7 DATA TYPE FILE (#771.4) LAST EDITED: MAY 14, 2015

21661.02,5.1 51CODE NUM 5;1 FREE TEXT

INPUT TRANSFORM: K:$L(X)>20!($L(X)<1) X LAST EDITED: MAY 30, 2015

HELP-PROMPT: Answer must be 1-20 characters in length. DESCRIPTION: This field contains the code number of and

encoded result for HL7 message OBX Seq 5.1. This maybe empty and is controlled by the DATA TYPE (#2.3) field.

21661.02,5.2 52CODE TXT 5;2 FREE TEXT

INPUT TRANSFORM: K:$L(X)>150!($L(X)<1) X LAST EDITED: JUN 18, 2015

HELP-PROMPT: Answer must be 1-150 characters in length. DESCRIPTION: This field contains the code number text of an

encoded result for HL7 message OBX Seq 5.2. This maybe empty and is controlled by the DATA TYPE (#2.3) field.

21661.02,5.3 53CODE SYS 5;3 FREE TEXT INPUT TRANSFORM: K:$L(X)>15!($L(X)<1) X

LAST EDITED: JUN 18, 2015

HELP-PROMPT: Answer must be 1-15 characters in length. DESCRIPTION: This field contains the code number system of an

encoded result for HL7 message OBX Seq 5.3. This

maybe empty and is controlled by the DATA TYPE (#2.3) field.

21661.02,6 MASSAGE PARAMETER 0;6 POINTER TO LA7 MESSAGE PARAMETER FILE (#

62.48)

LAST EDITED: JUN 03, 2015

DESCRIPTION: This field contains a pointer to LA7 MESSAGE PARAMETER (#62.48) if this entry is unique to that configuration. This field is used to screen out HL7 message building based on HL7 Message destination.

21661.02,6.1 61CODE NUM 6;1 FREE TEXT INPUT TRANSFORM: K:$L(X)>20!($L(X)<1) X

LAST EDITED: JUN 17, 2015

HELP-PROMPT: Answer must be 1-20 characters in length.

21661.02,6.2 62CODE TXT 6;2 FREE TEXT

INPUT TRANSFORM: K:$L(X)>150!($L(X)<1) X LAST EDITED: JUN 18, 2015

HELP-PROMPT: Answer must be 1-150 characters in length. DESCRIPTION: This field contains the code number text of the

result for HL7 message OBX Seq 6.2. This maybe empty and is controlled by the DATA TYPE (#2.3) field.

21661.02,6.3 63CODE SYS 6;3 FREE TEXT INPUT TRANSFORM: K:$L(X)>15!($L(X)<1) X

LAST EDITED: JUN 18, 2015

HELP-PROMPT: Answer must be 1-15 characters in length.

DESCRIPTION: This field contains the code number system of the result for HL7 message OBX Seq 6.3. This maybe empty and is controlled by the DATA TYPE (#2.3) field.

21661.02,64 WKLD CODE 64;1 POINTER TO WKLD CODE FILE (#64) LAST EDITED: JUL 23, 2015

DESCRIPTION: This field points to the WKLD CODE file if appropriate. Can be used to provide more detail about the result properties.

21661.02,2005 IMAGE 2005;1 SET

'1' FOR YES; LAST EDITED: JUL 23, 2015

DESCRIPTION: This field indicates that the results are stored in the IMAGE (#2005)/TIU (#8925) File. The value field will contain the pointer link to the storage file.

21661,3 URL LINK 3;0 Multiple #21661.03

21661.03,.01 URL LINK 0;1 FREE TEXT (Multiply asked) INPUT TRANSFORM: K:$L(X)>30!($L(X)<1) X

LAST EDITED: AUG 05, 2015

HELP-PROMPT: Answer must be 1-30 characters in length. DESCRIPTION: This field is used to link URL Links that

provide ordering information.

CROSS-REFERENCE: 21661.03^B

1)= S ^VFDLR(21661,DA(1),3,"B",$E(X,1,30),DA)=""

2)= K ^VFDLR(21661,DA(1),3,"B",$E(X,1,30),DA)

21661.03,1 DOC 1 1;0 WORD-PROCESSING #21661.31 (NOWRAP) (IGNORE "|")

21661,4 CPRS ID NAME 4;0 Multiple #21661.04

21661.04,.01 CPRS ID NAME 0;1 FREE TEXT (Multiply asked)

INPUT TRANSFORM: K:$L(X)>15!($L(X)<1) X LAST EDITED: AUG 31, 2015

HELP-PROMPT: Answer must be 1-15 characters in length. DESCRIPTION: This multiple contains the CPRS data ID link for

data contained in a OR(100,IEN entry. This data is used by the AOE Utilities to extract information entered during the ordering of an Surgical Pathology (SP) order. If the [AP FLAG] is populated in the CPRS to Lab order message,

the software will use the entries in this file to

extract user responses to CPRS order prompts.

The entries must be exact root spelling find in the: ^OR(100,ORIFN,4.5,"ID" X-ref. For example all entries containing the root of "SAMPLE" will be extracted and added to the appropriate: LAB ORDER ENTRY (#69) file.

CROSS-REFERENCE: 21661.04^B

1)= S ^VFDLR(21661,DA(1),4,"B",$E(X,1,30),DA)=""

2)= K ^VFDLR(21661,DA(1),4,"B",$E(X,1,30),DA)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 21661.04,.02 | SUB SCRIPT |  | 0;2 | SET |
|  |  | 'EM'  'SP'  'CY' | FOR FOR FOR | EM; SP; CY; |

LAST EDITED: SEP 01, 2015

DESCRIPTION: This field contain the subscript where the data should be stored.

21661.04,.03 DATA LOCATION 0;3 FREE TEXT INPUT TRANSFORM: K:$L(X)>10!($L(X)<1) X

LAST EDITED: SEP 01, 2015

HELP-PROMPT: Answer must be 1-10 characters in length. DESCRIPTION: This field contains the data dictionary

associated with this data. This field should be in the structure appropriate for FDA calls.

|  |  |  |
| --- | --- | --- |
| 21661.04,.04 | DATA TYPE | 0;4 SET  'WP' FOR WP; |
|  |  | 'UP' FOR UP; |
|  | LAST EDITED: | SEP 01, 2015 |
|  | DESCRIPTION: | This field indicate what data type is to be |
|  |  | stored in this location. WP = Word Processing UP |
|  |  | = UPDATE^DIE data. |

FILES POINTED TO FIELDS

HL7 DATA TYPE (#771.4) QUESTION:DATA TYPE (#2.3)

LA7 MESSAGE PARAMETER (#62.48) QUESTION:MASSAGE PARAMETER (#6) WKLD CODE (#64) QUESTION:WKLD CODE (#64)

INPUT TEMPLATE(S): PRINT TEMPLATE(S):

CAPTIONED USER #0

VFDLR AOE FILE PRINT JUN 30, 2015@16:31 USER #104 LR AOE FILE PRINT

SORT TEMPLATE(S):

VFDLR 21661 NUMBER SORT JUL 01, 2015@00:28 USER #104

SORT BY: NUMBER// (NUMBER not null)

This sort template begins with the IEN of 100

**101.41 ORDER DIALOG – New Entry**

This is the expected baseline for the new dialog but it is subject to change as development progresses.

The developer will start with a copy of the LR OTHER LAB TESTS national dialog and add the additional Anatomic Pathology prompts as well and enabling MULTIPLE VALUED

function for the following three prompts: OR GTX SPECIMEN DESCRIPTION

OR GTX COLLECTION SAMPLE OR GTX SPECIMEN

NAME: LR OTHER AP TESTS DISPLAY TEXT: Anatomic Pathology TYPE: dialog DISPLAY GROUP: LABORATORY SIGNATURE REQUIRED: ORES PACKAGE: LAB SERVICE

VERIFY ORDER: YES ASK FOR ANOTHER ORDER: YES-DON'T ASK ENTRY ACTION: D EN^ORCDLR1 QUICK SETUP: D EN^ORCDLR1

EXIT ACTION: D EX^ORCDLR1 LISTBOX TEXT: Lab Tests

WINDOW FORM ID: 120

VALIDATION: I '$$VALID^ORCDLR1(ORIFN) S ORQUIT=1 W !!,"Order will not be signed/re leased." H 2

ADDITIONAL TEXT: I '$$LB^ORCDLR(ORIFN),$G(^OR(100,ORIFN,4)) S Y="LB #"\_$P(^(4),";"

)

SEQUENCE: 1 ITEM: OR GTX ORDERABLE ITEM DISPLAY TEXT: Lab Test: REQUIRED: YES

INDEX: S.LAB

HELP MESSAGE: Enter a lab test to be ordered for this patient. ORDER TEXT SEQUENCE: 1 SCREEN: I $$ACTIVE^ORDD43(Y)

POST-SELECTION ACTION: I $G(ORESET),ORESET'=+Y D CHANGED^ORCDLR("OI") K ORTEST XECUTABLE HELP: N IDX,SCR S IDX=$G(ORDIALOG(PROMPT,"D")),SCR=$G(ORDIALOG(PROMPT,"S

")) D XHELP^ORDD43(IDX,SCR) ENTRY ACTION: K:FIRST ORTEST

EXIT ACTION: D CKTYP^ORCDLR Q:$G(ORQUIT) D TEST^ORCDLR ;Setup test parameters

WINDOWS CONTROL: lstSelectTest

SEQUENCE: 2 ITEM: OR GTX COLLECTION TYPE DISPLAY TEXT: Collected By: REQUIRED: YES

ASK ON ACTION: C

HELP MESSAGE: Enter the method of collection for this sample. ORDER TEXT SEQUENCE: 6 FORMAT: 1~1

POST-SELECTION ACTION: D CKTYPE^ORCDLR1

XECUTABLE HELP: D HELPTYPE^ORCDLR1 DEFAULT: S Y=$$COLLTYPE^ORCDLR1 K:'$L(Y) Y EXIT ACTION: S ORCOLLCT=$G(ORDIALOG(PROMPT,INST))

WINDOWS CONTROL: cboCollType

SEQUENCE: 5 ITEM: OR GTX START DATE/TIME DISPLAY TEXT: Collection Date/Time: REQUIRED: YES

ASK ON ACTION: W

INPUT TRANSFORM: I ORCOLLCT="LC",X'?1.N,"AMNEXT"'[$$UP^XLFSTR(X),$L(X,".")'>1,$L(X

,"@")'>1 S X=X\_"@"\_$S($$DATE^ORCDLR(X)=DT:$G(ORTIME("NEXT")),1:$G(ORTIME("AM"))) HELP MESSAGE: Enter the date/time the sample(s) should be collected.

POST-SELECTION ACTION: I $G(ORESET)'=$P(Y,U) N OK S OK=$S(ORCOLLCT="LC":$$LABCOLL^ ORCDLR1($P(Y,U)),ORCOLLCT="I":$$IMMCOLL^ORCDLR1($P(Y,U)),1:$$CKDATE^ORCDLR1($P(Y,U))

) I 'OK W $C(7),!,$P(OK,U,2) K DONE

XECUTABLE HELP: D FTDHELP^ORCD D:ORCOLLCT="LC" LISTCOLL^ORCDLR1,LIST^ORCD:$G(ORDIA LOG(PROMPT,"LIST")) D:ORCOLLCT="I" IMMTIMES^ORCDLR1

DEFAULT: I $G(ORTYPE)'="Z" S Y=$$DEFTIME^ORCDLR1 K:'$L(Y) Y

ENTRY ACTION: D COLLTIME^ORCDLR1 ;,LIST^ORCD:ORCOLLCT="LC"&$G(ORDIALOG(PROMPT,"LIS T")) WINDOWS CONTROL: cboCollTime

SEQUENCE: 8 ITEM: OR GTX ADMIN SCHEDULE DISPLAY TEXT: How often: INDEX: APLR

HELP MESSAGE: Enter an administration schedule for how often this test is to be do ne. ORDER TEXT SEQUENCE: 8

OMIT TEXT: ONE TIME ASK ON CONDITION: I $G(ORTYPE)="Z"!ORMAX SCREEN: I "CDO"[$P(^(0),U,5)

POST-SELECTION ACTION: I $G(ORESET),ORESET'=ORDIALOG(PROMPT,ORI) K ORDIALOG($$PTR^ ORCD("OR GTX DURATION"),ORI) XECUTABLE HELP: D XSCH^ORCDLR

DEFAULT: I $G(ORTYPE)'="Z",$D(LRFSCH)!ORMAX S Y=$$LRD1^ORDDPAPI S:$D(LRFSCH)&Y EDI TONLY=1 K:Y'>0 Y

ENTRY ACTION: I $G(ORTYPE)'="Z",ORMAX'>0 K ORDIALOG(PROMPT,INST) EXIT ACTION: S ORSCH=+$G(ORDIALOG(PROMPT,INST))

WINDOWS CONTROL: cboFrequency

SEQUENCE: 6 ITEM: OR GTX LAB URGENCY ASK ON ACTION: C

HELP MESSAGE: Enter the urgency of this test.

ORDER TEXT SEQUENCE: 4 OMIT TEXT: ROUTINE

ASK ON CONDITION: I $$ASKURG^ORCDLR XECUTABLE HELP: D LIST^ORCD

DEFAULT: I $G(ORTYPE)'="Z" S Y=+$G(ORTEST("Default Urgency")) I 'Y S Y=$S($L($G(LR FURG)):LRFURG,1:$$DEFURG^LR7OR3) S:$G(LRFURG) EDITONLY=1

ENTRY ACTION: D URGENCY^ORCDLR WINDOWS CONTROL: cboUrgency

SEQUENCE: 3 ITEM: OR GTX COLLECTION SAMPLE REQUIRED: YES ASK ON ACTION: C

INDEX: B;D

HELP MESSAGE: Enter the sample to be collected for this test.

ORDER TEXT SEQUENCE: 2 ASK ON CONDITION: I $$ASKSAMP^ORCDLR

POST-SELECTION ACTION: I $G(ORESET),ORESET'=+Y N PTR S PTR=$$PTR^ORCD("OR GTX SPEC IMEN") K ORDIALOG(PTR,1),ORDIALOG(PTR,"LIST")

XECUTABLE HELP: D XHELP^ORCDLR(PROMPT) DEFAULT: S Y=$$SAMPLE^ORCDLR K:Y'>0 Y

ENTRY ACTION: D ENSAMP^ORCDLR MULTIPLE VALUES: YES

EXIT ACTION: N ORS S ORS=+$G(ORDIALOG(PROMPT,INST)) D SHOWCOMM^ORCDLR(ORS) WINDOWS CONTROL: cboCollSamp

SEQUENCE: 4 ITEM: OR GTX SPECIMEN REQUIRED: YES ASK ON ACTION: C INDEX: B;D

HELP MESSAGE: Enter the specimen on which this test is to be performed. ORDER TEXT SEQUENCE: 3 FORMAT: =126

ASK ON CONDITION: I '$$SPECIMEN^ORCDLR

XECUTABLE HELP: D SPECHELP^ORCDLR DEFAULT: S Y=$$SPECIMEN^ORCDLR K:Y'>0 Y WINDOWS CONTROL: cboSpecimen MULTIPLE VALUES: YES

SEQUENCE: 7 ITEM: OR GTX WORD PROCESSING 1

ASK ON ACTION: C

HELP MESSAGE: Enter any additional comments or instructions for this test and spec imen. ORDER TEXT SEQUENCE: 9

START NEW LINE: YES ASK ON CONDITION: I '$$REQDCOMM^ORCDLR WINDOWS CONTROL: txtComment

SEQUENCE: 9 ITEM: OR GTX DURATION DISPLAY TEXT: How long: REQUIRED: YES

HELP MESSAGE: Enter the number of days or X\_number of times to execute this order. ASK ON CONDITION: I $G(ORSCH),"CD"[$$LRD2^ORDDPAPI(ORSCH) ;cont or day of week onl

y

POST-SELECTION ACTION: N OK S OK=$$CKMAX^ORCDLR(Y) I 'OK K DONE W $C(7),!,$P(OK,U,

2),! ENTRY ACTION: D SHOWMAX^ORCDLR WINDOWS CONTROL: txtDays

SEQUENCE: 10 ITEM: OR GTX VISITSTR REQUIRED: YES ASK ON ACTION: \* PROMPT: VISITSTR

ASK ON CONDITION: I 0 ; populated from patient data

TIMESTAMP: 62900,54093

SEQUENCE: 11 ITEM: OR GTX CLINICAL HISTORY REQUIRED: YES ORDER TEXT SEQUENCE: 11

LEADING TEXT: Clinical History: START NEW LINE: YES

SEQUENCE: 12 ITEM: OR GTX PRE OPERATIVE DIAGNOSIS REQUIRED: YES ORDER TEXT SEQUENCE: 12

LEADING TEXT: Pre-Operative Diagnosis:

START NEW LINE: YES

SEQUENCE: 36 ITEM: OR GTX OPERATIVE FINDINGS ORDER TEXT SEQUENCE: 13 LEADING TEXT: Operative Findings: START NEW LINE: YES

SEQUENCE: 14 ITEM: OR GTX POST OPERATIVE FINDINGS DISPLAY TEXT: Post operative Findings(optional):

ORDER TEXT SEQUENCE: 14 LEADING TEXT: Post-operative Findings: START NEW LINE: YES

SEQUENCE: 15 ITEM: OR GTX SUBMISSION TYPE DISPLAY TEXT: Submission Type:

ORDER TEXT SEQUENCE: 15 LEADING TEXT: Submission Type: START NEW LINE: YES

SEQUENCE: 16 ITEM: OR GTX LATERALITY DISPLAY TEXT: Laterality(optional):

ORDER TEXT SEQUENCE: 16 LEADING TEXT: Laterality: START NEW LINE: YES

SEQUENCE: 17 ITEM: OR GTX SPECIMEN DESCRIPTION DISPLAY TEXT: Laterality(optional):

ORDER TEXT SEQUENCE: 17 LEADING TEXT: Specimen Description: START NEW LINE: YES MULTIPLE VALUES: YES

**6.2.2.3.4. Unique Record(s)**

No changes to unique record IDs identified at this time for the Anatomic Pathology Order Dialog enhancement.

**6.2.2.3.5. File or Global Size Changes**

The addition of new fields to the LAB ORDER ENTRY(69) and ACCESSION(68) files along with the addition of new word processing prompts will increase the growth rate of the global over the current configuration. No decrease is expected.

**6.2.2.3.6. Mail Groups**

No planned additions or modifications to mail groups identified at this time for the VLE APOD

enhancement.

**6.2.2.3.7. Security Keys**

No security keys added or modified to support the VLE APOD enhancement are anticipated at this time.

**6.2.2.3.8. Options**

No planned additions or modifications to Laboratory or Order Entry/Results Reporting options are expected at this time for the VLE APOD enhancement.

**6.2.2.3.9. Protocols**

No planned additions or modifications to protocols are identified at this time for the VLE APOD

enhancement.

**6.2.2.3.10. Remote Procedure Call (RPC)**

The VLE APOD enhancement is expected to require the development of new Remote Procedure

Calls (TBD during the Delphi development phase of this project).

**6.2.2.3.11. Constants Defined in Interface**

No interface constraints have been identified at this time.

**6.2.2.3.12. Variables Defined in Interface**

No interface variables have been identified at this time.

**6.2.2.3.13. Types Defined in Interface**

No types have been identified at this time.

**6.2.2.3.14. GUI –**

The CPRS GUI CPRSChart.exe will be modified to recognize the new LR OTHER AP TESTS

order dialog in support of the Anatomic Pathology ordering enhancement.

Sections 6.2.2.3.14 – 6.2.2.3.31 are still under evaluation by the development team. Once the analysis is completed this section will be completed.

**Table 36: GUI Field Description**

|  |  |
| --- | --- |
| **Unit Name** | **Description** |
| Available Lab Tests | OR GTX ORDERABLE ITEM |
| Urgency | OR GTX LAB URGENCY |
| Collection Date/Time | OR GTX START DATE/TIME |
| Collection Type | OR GTX COLLECTION TYPE |
| How Often? | OR GTX ADMIN SCHEDULE |
| How Long? | OR GTX DURATION |
| Enter Order Comment | OR GTX WORD PROCESING 1 |
| Submission Type | OR GTX SUBMISSION TYPE |
| Laterality | OR GTX LATERALITY |
| Specimen Description | OR GTX SPECIMEN DESCRIPTION |
| Collection Sample | OR GTX COLLECTION SAMPLE |
| Specimen | OR GTX SPECIMEN |
| Clinical History | OR GTX CLINICAL HISTORY |
| Pre-Operative Findings | OR GTX PRE OPERATIVE DIAGNOSIS |
| Operative Findings | OR GTX OPERATIVE FINDINGS |
| Post-Operative Findings | OR GTX POST OPERATIVE FINDINGS |

The following table shows how each order dialog prompt will be controlled based upon the conditions of Hidden (H), Required (R), Optional (O), or Conditional (C), or Unsure (U).

**Table 37: GUI Control**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test (subscript)** | **Prompt** | **Condition** | **Default(s)/screen** |
| Bone Marrow (SP) | OR GTX ORDERABLE  ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START DATE/TIME | R |  |
|  | OR GTX COLLECTION TYPE | R |  |
|  | OR GTX ADMIN SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD  PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION SAMPLE | R |  |
|  | OR GTX SPECIMEN DESCRIPTION | R |  |
|  | OR GTX SUBMISSION TYPE | H |  |
|  | OR GTX LATERALITY | R,U ??? |  |
|  | OR GTX CLINICAL  HISTORY | R |  |
|  | OR GTX OPERATIVE  FINDINGS | H |  |
|  | OR GTX POST  OPERATIVE FINDINGS | H |  |
|  | OR GTX PRE  OPERATIVE DIAGNOSIS | R |  |
| Bronchial (CY) | OR GTX ORDERABLE  ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START DATE/TIME | R |  |
|  | OR GTX COLLECTION TYPE | R |  |
|  | OR GTX ADMIN SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD  PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION SAMPLE | R |  |
|  | OR GTX SPECIMEN DESCRIPTION | R |  |
|  | OR GTX SUBMISSION TYPE | H |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | OR GTX LATERALITY | O |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | H |  |
|  | OR GTX POST OPERATIVE FINDINGS | H |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Bronchial Biopsy (SP) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | R |  |
|  | OR GTX LATERALITY | R |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | O |  |
|  | OR GTX POST OPERATIVE FINDINGS | O |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Dermatology (CY) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | R |  |
|  | OR GTX LATERALITY | R |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | O |  |
|  | OR GTX POST OPERATIVE FINDINGS | O |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Fine Needle Aspirate (CY) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | H |  |
|  | OR GTX LATERALITY | O |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | H |  |
|  | OR GTX POST OPERATIVE FINDINGS | H |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| General Fluid (CY) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE |  |  |
|  | OR GTX LATERALITY |  |  |
|  | OR GTX CLINICAL HISTORY |  |  |
|  | OR GTX OPERATIVE FINDINGS |  |  |
|  | OR GTX POST OPERATIVE FINDINGS |  |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS |  |  |
| General Surgery (SP) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | H |  |
|  | OR GTX LATERALITY | R |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | H |  |
|  | OR GTX POST OPERATIVE FINDINGS | H |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Gastro-Intestinal, Upper GI | OR GTX ORDERABLE | R |  |

|  |  |  |  |
| --- | --- | --- | --- |
| (SP) | ITEM |  |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | O |  |
|  | OR GTX LATERALITY | O |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | O |  |
|  | OR GTX POST OPERATIVE FINDINGS | O |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Gastro-Intestinal, Lower GI (SP) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | O |  |
|  | OR GTX LATERALITY | U |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE | O |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | FINDINGS |  |  |
|  | OR GTX POST OPERATIVE FINDINGS | O |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Gynecology (PAP) (CY) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | H |  |
|  | OR GTX LATERALITY | U |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | H |  |
|  | OR GTX POST OPERATIVE FINDINGS | H |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | H |  |
| Urine (CY) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | OR GTX SUBMISSION  TYPE | H |  |
|  | OR GTX LATERALITY | H |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | H |  |
|  | OR GTX POST OPERATIVE FINDINGS | H |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Urology, Prostate (SP) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | O |  |
|  | OR GTX LATERALITY | R |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | O |  |
|  | OR GTX POST OPERATIVE FINDINGS | O |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Urology, Bladder/Ureter  Biopsy (SP) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD | O |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | PROCESING 1 |  |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | O |  |
|  | OR GTX LATERALITY | R |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | O |  |
|  | OR GTX POST OPERATIVE FINDINGS | O |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |
| Urology, Bladder/Ureter  Brushing (CY) | OR GTX ORDERABLE ITEM | R |  |
|  | OR GTX LAB URGENCY | R |  |
|  | OR GTX START  DATE/TIME | R |  |
|  | OR GTX COLLECTION  TYPE | R |  |
|  | OR GTX ADMIN  SCHEDULE | R |  |
|  | OR GTX DURATION | C |  |
|  | OR GTX WORD PROCESING 1 | O |  |
|  | OR GTX SPECIMEN | R |  |
|  | OR GTX COLLECTION  SAMPLE | R |  |
|  | OR GTX SPECIMEN  DESCRIPTION | R |  |
|  | OR GTX SUBMISSION  TYPE | O |  |
|  | OR GTX LATERALITY | R |  |
|  | OR GTX CLINICAL HISTORY | R |  |
|  | OR GTX OPERATIVE FINDINGS | O |  |
|  | OR GTX POST OPERATIVE FINDINGS | O |  |
|  | OR GTX PRE OPERATIVE DIAGNOSIS | R |  |

**6.2.2.3.15. GUI Classes**

**Table 37: GUI Classes (Instructions)**

|  |  |
| --- | --- |
| **GUI Classes** | **Instructions** |
| **Class Name** |  |
| **Derived From Class** |  |
| **Purpose** |  |

**Table 38: GUI Classes**

|  |  |
| --- | --- |
| **GUI Classes** | **Instructions** |
| **Class Name** |  |
| **Derived From Class** |  |
| **Purpose** |  |

**6.2.2.3.16. Current Form**

**6.2.2.3.17. Modified Form**

**6.2.2.3.18. Components on Form**

**Table 39: Components on Form**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
|  |  |  |

**6.2.2.3.19. Events**

**Table 40: Events**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
|  |  |  |

**6.2.2.3.20. Methods**

**Table 41: Methods**

|  |  |  |
| --- | --- | --- |
| **Method Name** | **Procedure/Function** | **Description** |
|  |  |  |

**6.2.2.3.21. Special References**

|  |  |  |
| --- | --- | --- |
| **Special Reference Name** | **Type** | **Description** |
|  |  |  |

**6.2.2.3.22. Class Events**

**Table 42: Class Events**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
|  |  |  |

**6.2.2.3.23. Class Methods**

**Table 43: Class Methods**

|  |  |  |
| --- | --- | --- |
| **Name** | **Procedure/Function** | **Description** |
|  |  |  |

**6.2.2.3.24. Class Properties**

**Table 44: Class Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| **Class Properties Name** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

**6.2.2.3.25. Uses Clause**

**6.2.2.3.26. Forms**

**Table 45: Forms (Instructions)**

|  |  |
| --- | --- |
| **Forms** | **Instructions** |
| **Form Name** |  |
| **Enhancement Category** |  |
| **Form Functionality** |  |
| **Current Form Layout** |  |
| **Modified Form Layout**  **(Changes are in bold)** |  |

**Table 46: Forms**

|  |  |
| --- | --- |
| **Forms** | **Description** |
| **Form Name** |  |
| **Enhancement Category** | New Modify Delete No Change |
| **Form Functionality** |  |

**Current Form Layout**

**Modified Form Layout (Changes are in bold)**

**6.2.2.3.27. Functions**

**Table 47: Forms (Instructions)**

|  |  |
| --- | --- |
| **Functions** | **Instructions** |
| **Function Name** |  |
| **Short Description** |  |
| **Enhancement Category** |  |
| **Related Options** |  |
| **Related Routines** |  |
| **Data Dictionary (DD) References** |  |
| **Related Protocols** |  |
| **Related Integration Control**  **Registrations (ICRs)** |  |
| **Data Passing** |  |
| **Input Attribute Name and**  **Definition** |  |
| **Output Attribute Name and**  **Definition** |  |
| **Current Logic** |  |
| **Modified Logic (Changes are in bold)** |  |

**Table 48: Forms**

|  |  |
| --- | --- |
| **Function Name** | **Activities** |
| **Short**  **Description** |  |
| **Enhancement**  **Category** | New Modify Delete No Change |
| **Related Options** |  |

|  |  |  |
| --- | --- | --- |
| **Related Routines** | **Routines “Called By”** | **Routines “Called”** |
|  |  |  |

|  |  |
| --- | --- |
| **Function Name** | **Activities** |
| **Data Dictionary**  **(DD) References** |  |
| **Related**  **Protocols** |  |
| **Related Integration Control Registrations (ICRs)** |  |
| **Data Passing** | Input Output Both Global Reference Local Reference |
| **Input Attribute Name and Definition** | Name: Definition: |
| **Output Attribute Name and Definition** | Name: Definition: |

**Current Logic**

**Modified Logic (Changes are in bold)**

**6.2.2.3.28. Dialog**

**Table 49: Dialog (Instructions)**

|  |  |
| --- | --- |
| **Dialog** | **Instructions** |
| **Dialog Message**  **(Description)** |  |
| **Enhancement Category** |  |
| **Dialog Message**  **(Description) Condition** |  |
| **Current Dialog Message**  **(Description)** |  |
| **Modified Dialog Message**  **(Description) (Changes are in bold)** |  |

**Table 50: Dialog**

|  |  |
| --- | --- |
| **Dialog** | **Instructions** |
| **Dialog Message**  **(Description)** |  |
| **Enhancement Category** | Modify Delete No Change  New |
| **Dialog Message**  **(Description) Condition** |  |
| **Current Dialog Message**  **(Description)** |  |
| **Modified Dialog Message**  **(Description) (Changes are in bold)** |  |

**6.2.2.3.29. Help Frame**

**Table 51: Help Frame (Instructions)**

|  |  |
| --- | --- |
| **Help Frame** | **Instructions** |
| **Help Frame Text** |  |
| **Enhancement Category** |  |
| **Help Frame Text Calling**  **Mechanism** |  |
| **Current Help Frame Text** |  |
| **Modified Help Frame Text**  **(Changes are in bold)** |  |

**Table 52: Help Frame**

|  |  |
| --- | --- |
| **Help Frame** | **Description** |
| **Help Frame Text** |  |
| **Enhancement Category** | New Modify Delete No Change |
| **Help Frame Text Calling**  **Mechanism** |  |

**Current Help Frame Text**

**Modified Help Frame Text (Changes are in bold)**

**6.2.2.3.30. HL7 Application Parameter**

**Table 53: HL7 Application Parameter (Instructions)**

|  |  |
| --- | --- |
| **HL7 Application Parameter** | **Instructions** |
| **HL7 Application Parameter**  **Name** |  |
| **Enhancement Category** |  |
| **Application Status** |  |
| **Facility Name** |  |
| **Country Code** |  |
| **HL7 Field Separator** |  |
| **HL7 Encoding Characters** |  |
| **Mail Group** |  |

**Table 54: HL7 Application Parameter**

|  |  |
| --- | --- |
| **HL7 Application**  **Parameter Name** | **Description** |
| **Enhancement Category** | New Modify Delete No Change |
| **Application Status** | Active Inactive Active Inactive |

|  |  |  |
| --- | --- | --- |
| **Enhancement Category** | **Current** | **Modified** |
| **Facility Name** |  |  |
| **Country Code** |  |  |
| **HL7 Field Separator** |  |  |
| **HL7 Encoding Characters** |  |  |
| **Mail Group** |  |  |

**6.2.2.3.31. HL7 Logical Link**

**Table 55: HL7 Logical Link (Instructions)**

|  |  |
| --- | --- |
| **HL7 Logical Link** | **Instructions** |
| **HL7 Logical Link Parameter**  **(LLP) Name** |  |
| **Enhancement Category** |  |
| **Node** |  |
| **Institution** |  |
| **Domain** |  |
| **Autostart** |  |

|  |  |
| --- | --- |
| **HL7 Logical Link** | **Instructions** |
| **Queue Size** |  |
| **LLP Type** |  |

**Table 56: HL7 Logical Link**

|  |  |  |
| --- | --- | --- |
| **HL7 Logical Link** | **Description** | |
| **HL7 Logical Link**  **Parameter Name** |  | |
| **Enhancement Category** | **New Modify Delete No Change** | |
| **Enhancement Category** | **Current** | **Modified** |
| **Node** |  |  |
| **Institution** |  |  |
| **Domain** |  |  |
| **Autostart** |  |  |
| **Queue Size** |  |  |
| **LLP Type** |  |  |

**6.3. Network Detailed Design**

No new network infrastructure is required to support the VLE APOD enhancement.

**6.4. Security and Privacy**

**6.4.1. Security**

No additional security concerns for the VLE APOD enhancement capability, all security controls currently implemented for VistA apply.

**6.4.2. Privacy**

No additional privacy concerns for the VLE APOD enhancement capability, all privacy controls currently implemented for VistA apply.

**6.5. Service Oriented Architecture / ESS Detailed Design**

The VLE APOD Enhancement does not add to provided and/or consumed services.

**7. External System Interface Design**

There will not be an External System or Interface design for VLE APOD enhancement capability

**8. Human-Machine Interface**

There are no additional human-machine interfaces for the VLE APOD enhancement. The current functionality of VistA Legacy Laboratory module and Health Level 7 module are leveraged. The enhancements are to use background processing and changes to the dialog of the interface.

**9. Attachment A – Approval Signatures**

This section is used to document the approval of the System Design Document. The review should be conducted face to face where signatures can be obtained ‘live’ during the review. If unable to conduct a face-to-face meeting then it should be held via LiveMeeting and concurrence captured during the meeting. The Scribe should add /es/name by each position cited. Example provided below.

The Business Sponsor and Project Manager are required to sign.

X

Business Sponsor

X

VA Project Manager