

STAR 2000™



STAR LABORATORY REFERENCE GUIDE Reference Laboratory Interface Module

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Preface

The *Reference Laboratory Interface Module* is one volume in the STAR Laboratory Reference Guide series. It provides detailed information concerning how to design, build, and use the Reference Laboratory Interface Module.

The *General Information Volume* is prerequisite reading for all other volumes of the *STAR Laboratory Reference Guide*. Successful use of the *Reference Laboratory Interface Module* depends upon your knowledge of the concepts covered in the *General Information Volume*.

Documentation Conventions

Documentation for McKesson's STAR 2000™ line of products follows these conventions:

Revisions

Text revisions are indicated by a change bar in the left margin. Paragraphs that contain grammatical changes that do not affect content are not marked.

Canadian Documentation

This volume may include documentation for Canadian users of this product. Complete sections of Canadian text are identified by "CN" and "CN Only."

Key Names

Named keys, such as ENTER, SHIFT, CTRL, and ALT, appear in this document in uppercase (capital) letters. Symbol keys display according to the key name, followed by the symbol on the key in parentheses, such as hyphen (-) and asterisk (*).

Key Chords

Key chords are key entries that require you to hold down one or more keys (typically, CTRL, ALT, or SHIFT) before pressing another key. In this document, key chords display as the names of each key in the chord with a hyphen (-) between each (for example, CTRL-ALT-DEL). You should press the keys in the order indicated.

ENTER

ENTER is a key on a computer keyboard used to complete an entry on a STAR system. (This key may also be referred to as NEW LINE or NL in the STAR system.)

Data Entries

Letters or words you enter in response to the system display in **boldface** letters in this document. For example: Enter **Y** for Yes or **N** for No.

Selecting an Entry

This document often instructs you to "select an entry." The method you use to select an entry depends on whether you are using STAR from a terminal or IBM-compatible personal computer. Entry methods include:

- Entering the option number
- Using your arrow keys to highlight the option and pressing ENTER
- Clicking on the option using a mouse or other pointing device (PC only)

For more information about these options, refer to the *General Information Volume*.

Prompts

System prompts display at the bottom of many STAR screens when the system requests an entry or displays a message. Prompts display in this document italicized and indented from the rest of the text. For example:

Enter patient name--

Field Characteristics

STAR product documentation provides field explanation codes, in addition to a narrative description for each field on a screen. These codes display the maximum length of your entry in the field, the type of entry you make in the field, and whether the field is required. This information displays in the following format:

- DISPLAY ONLY for a field you cannot edit.
- For X-YY-Z field types, where:
 - X is the maximum number of characters permitted in the field:
 - P for a field length determined by a Parameter
 - T for a field length determined by a Table
 - U for a field having an Undefined length
 - YY is the type of entry technique permitted in the field:
 - A for Letters only
 - N for Numerals only
 - C for Characters (including punctuation)
 - AC for Letters and Punctuation only (no numbers)
 - NC for Numerals and Punctuation only (no letters)
 - AN for Numerals and Letters only (no punctuation)
 - Z is the requirement indicator of the field:
 - R if an entry is required to complete the function
 - O if an entry is Optional to complete the function
 - C if an entry is Conditionally required or optional
 - For YY-Z field types, where YY is:
 - TABLE LOOKUP for a field that enables you to select from a displayed table. Refer to the *General Information Volume* for more information regarding this entry technique.
 - SPECIAL FORMAT for a field having data entry requirements not conforming to standard format. The field definition contains the specific data entry requirements for the field.
 - DATE for a field subject to the date entry conventions described in the *General Information Volume*.
 - TIME for a field subject to the time entry conventions described in the *General Information Volume*.

NOTE: For use of the Z position in this format, refer to the explanations for Z under X-YY-Z.

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NOTE: The report names provided with the illustrations are the default names. If section reports have been defined for a particular report name, this changes the name of the report. For example, the default report name for accession labels is ALALLAL0 (for department A). Using this example, if accession labels are defined to be section specific, the report name would look like, for example, ALHEMLAL0 for the Hematology section (HEM = Hematology section code).

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Introduction

The Reference Laboratory Interface Module enables you to maintain communications between STAR Laboratory and a reference laboratory handling sendout and sendout-interface tests. The module transmits test orders released from the Sendout Queue to the appropriate lab and then returns test results to STAR Laboratory.

Within the body of this volume, the Reference Laboratory Interface will be referred to as *Reference Lab Interface*. This volume contains the following chapters and appendices:

Chapter 1: Worksheets Instructions

This chapter explains how to complete the worksheets needed to install the Reference Laboratory Interface Module.

Chapter 2: Maintenance Processors

This chapter describes how to use STAR Laboratory functions to set up communications to a reference lab, using the Reference Laboratory Interface Module.

Chapter 3: Applications

This chapter describes how to use functions specific to the Reference Laboratory Interface Module and explains how these functions differ from standard STAR Laboratory functions.

Appendix A: Testing Criteria

This appendix provides a guide for testing communications over the Reference Laboratory Interface Module.

Appendix B: Hardware Requirements

This appendix describes the hardware you will need to successfully implement the Reference Laboratory Interface Module.

Appendix C: Report Names

This appendix provides a list of the reports, labels, and forms generated by the Reference Laboratory Interface Module. The section lists the reports, labels, and forms alphabetically by system name, then alphabetically by descriptive name.

Appendix D: Worksheet Forms

This appendix provides worksheet forms you use to define how you want to set up the Reference Laboratory Interface Module. Use these blank forms as masters, making copies as needed.

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INTRODUCTION

The chapter describes how to complete the worksheets for implementing the Reference Lab Interface Module.

Appendix D: Worksheet Forms includes worksheets to help you collect information needed to successfully implement the Reference Lab Interface into your current STAR Laboratory system. The fields of these worksheets roughly mirror the fields on the maintenance screens you will use to define the information required for the Reference Lab Interface. For detailed information on the maintenance builders, refer to Chapter 2: Maintenance Processors in the *Reference Laboratory Interface Guide* of the *STAR Laboratory Reference Guide*.

USING THE WORKSHEETS

Appendix D: Worksheet Forms contains the following forms:

- Special Test Information
- Interdepartment/Sendout Labels
- Results and Normals
- Interface Parameters
- Test Code/Cross-Reference Information
- Review/Queue Test
- Ref Lab Prompt/Test

Before you install the interface, distribute copies of these worksheets to appropriate personnel for completion. After each worksheet has been completed, it should be checked to ensure all information has been entered completely and accurately. Once all required information has been accurately identified on the worksheets, you can use the worksheets to set up the interface.

Worksheet Checklists

The Worksheet Checklists provide tools for you to use in monitoring the status of the Worksheet phase of the installation. Use the checklists to identify personnel responsible for completion of the worksheets and as an aid in managing the Worksheet portion of the project. Refer to Appendix D: Worksheet Forms in the *Reference Laboratory Interface Guide* of the *STAR Laboratory Reference Guide* for these checklists.

Test Worksheets

A *sendout-interface* test is defined as a test performed at a user-designated reference laboratory for which test order and result information is transmitted electronically. Data is transmitted between STAR Laboratory and the reference laboratory, using the STAR Laboratory Reference Lab Interface.

Test files must be built prior to defining additional information specific to the Reference Lab Interface processes for each sendout-interface test. Sendout-interface tests are defined using the same test worksheets as those provided with the base system, with the exception of:

- Special Test Information
- Interdepartment/Sendout Labels

- Results and Normals

For instructions in completing worksheets and for the worksheets themselves, refer to Appendix D: Worksheet Forms in this manual and Chapter 5: Main Test Information, Chapter 6: Supporting Test Files, and Appendix B: Worksheets in the *Maintenance Worksheets Volume* of the *STAR Laboratory Reference Guide*. Certain fields on the worksheets are specific to sendout-interface tests only. The fields are the following:

SPECIAL TEST INFORMATION

REFERENCE TYPE (1-A-R)

Only test codes defined with the *General test type* can be defined as sendout-interface tests. The reference type is always Ref Lab Interface. This field is already checked on the worksheet.

INTERDEPARTMENT/SENDOUT LABELS

REFERENCE TYPE (1-A-R)

Only test codes defined with the *General test type* can be defined as sendout-interface tests. The reference type is always Ref Lab Interface. This field is already checked on the worksheet.

REFERENCE LAB (TABLE LOOKUP)

Enter the code and name of the laboratory at which this test is to be performed. For an Interdepartmental or Sendout test, the laboratory must be defined in the Send Out Laboratories table created by your laboratory. For a sendout-interface test, the laboratory must have sendout lab cross-references defined in the Interface Parameters builder and must also be included in the Send Out Laboratories table.

STORAGE REQUIREMENTS (2-N-O)

Enter the storage requirement code from the table of storage requirement typeset system provides the following list of storage requirement types. Additional storage requirement types can be added to the table by your laboratory as needed.

- 1-Room Temperature
- 2-Frozen
- 3-Refrigerated

NOTE: This information is used in generating the Travel List report if the report is sorted by storage requirements. If a specific storage requirement is not defined for the test, the system default for the Travel List report is *Refrigerated*.

COLLECTION REQUIREMENTS (1-N-O)

Certain tests require specimen weight or volume information as a part of the test processing. Indicate if the collection volume or weight is required for a sendout-interface test by selecting the appropriate option.

- Collection Volume Required - If this option is defined for a sendout-interface test, the Collection Volume will be a required field on the Ref Lab Prompt/Response screen in the Accessioning processor.
- Collection Weight Required - If this option is defined for a sendout-interface test, the Collection Weight will be a required field on the Ref Lab Prompt/Response screen in the Accessioning processor.

NOTE: If the test is defined as a Sendout or Interdepartment, this field cannot be edited; it displays *N/A*.

RESULTS AND NORMALS**SPECIAL PROCESSING (2-N-R)**

This field is used to assign any of the system's special processing features to a result component. Special processing features determine how the result component selected is to be resulted within the test selected. Enter the name of the special processing feature.

NOTE: The Word Processing option of the Special Processing field is the only option that requires specific entry instructions for sendout-interface tests. For detailed information on each option, refer to Chapter 6: Supporting Test Files in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

WORD PROCESSING

This feature enables you to select Word Processing and to indicate which of the following display options should be used. Four types of word processing options exist when you select Word Processing:

- The first option displays *all* of the Standard Result Text documents in result reporting when this component is resulted for the test. To select this option, enter **A**.
- The second option uses the *interpretive reporting* parameters to complete this component with a Standard Result Text document. You can use predefined standard result text based on the value of another result component in the test. To select this option, enter **I**.
- The third option limits the display of available Standard Result Text to a *subgroup*. These subgroups can be categorized by ID type, based on a result field or general subgroup type. To select this option, enter **S**.

- The fourth option is limited to the result component defined in the WP Component field of the Reference Lab Interface Parameters processor. The system automatically displays *Word Proc.- Reference Lab*. Multiline normals, free text, and precanned comments transmitted in the Comment segment of the result transaction from the reference laboratory are filed to this component.

Reference Lab Interface Worksheets

The following worksheets are used to define the parameters required for the operation of the Reference Lab Interface:

- Interface Parameters
- Cross Reference Processor
- Review Queue/Test
- Ref Lab Prompt/Test

INTERFACE PARAMETERS

The Interface Parameters worksheet is used to define internal parameters required for the Reference Lab Interface. These parameters include programs to control communication between STAR Laboratory and the reference lab system and to provide basic information required for operation of the Reference Lab Interface.

ERROR LOG (TABLE LOOKUP-R)

This field identifies the printer to which the system should print the interface error messages. The system level report name *LABREF#* is created during Reference Lab Interface implementation. The # corresponds to a number representing each reference laboratory defined to interface with the STAR Reference Lab Interface.

Enter the port used for the Interface Error Log for the reference lab selected. Only one port can be entered. Both the report name *LABREF#* corresponding to the reference lab selected and port number (in parenthesis) entered display in this field.

INTERFACE PORT (4-N-R)

Enter the port used for communications over the Reference Lab Interface. You can change this field if you encounter hardware errors with this port.

AUDIT (1-A-R)

This field determines whether the system should maintain an online audit of transactions sent over the interface. You can enter **N** if you do not want to maintain this audit information; the system bypasses the Retain Audit Days field. Enter **Y** to maintain the online audit of transactions.

RETAIN AUDIT DAYS (1-N-R)

This field identifies the number of days the system should retain audit information before automatically deleting the data during midnight processing. Enter the number of days the system should retain the audit data; this value must be less than four (4). The default is 3. You cannot edit this field if you entered **N** in the Audit field.

COMMUNICATIONS (1-A-R)

This field identifies the type of communication line being used. You can enter **A** if the communication line is auto-dial or **L** if the communication line is leased. If you enter **L**, the system bypasses the Phone Number and Auto-Dial Times fields.

PHONE NUMBER (30-NP-C)

The field contains the phone number the system dials to communicate with the reference lab. If the system must dial an outside line, remember to enter **9**, followed by a comma (,) for any pauses.

AUTO-DIAL TIMES (4-N-O)

This field contains the times at which the STAR Laboratory system should automatically dial the reference lab to retrieve queued results. Defining auto dial times enables the reference lab to transmit queued test results to STAR Laboratory more efficiently.

You can enter these times using the military time format (where 0000 is midnight and 1200 is noon). Separate each auto-dial time with a comma (,). Valid times are 0000 to 2359. You can enter up to 15 times. Times display in numeric order.

NOTE: Information required to complete the next five fields is obtained by contacting the reference laboratory.

SIGN ON ID (12-ANP-R)

Enter the user sign-on identification required to log on to the reference laboratory system. The format of this information depends upon the reference lab with which you are communicating.

PASSWORD (10-ANP-O)

Enter the password required to log on to the reference laboratory system. The system transmits the password after sending the contents of the Sign On ID field. The format of this information depends upon the reference lab with which you are communicating.

SENDER ID (8-ANP-R)

Enter the sender identification (client code) required to access the reference lab system. The format of this information depends upon the reference lab with which you are communicating.

CLIENT ACCOUNT CODE (10-ANP-O)

Enter the client account code required to access the reference lab system. The format of this information depends upon the reference lab with which you are communicating.

REFERENCE LAB ID (8-ANP-R)

Enter the user sign-on identification required from the reference lab to access STAR Reference Lab Interface. The format of this information depends upon the reference lab with which you are communicating.

REF LAB TEST LENGTH (2-N-R)

Enter the length of the Reference Lab test code. This field is used in the Cross Reference processor to determine the length of the test code cross-reference.

WORDPROCESSING COMPONENT (6-AN-R)

This field displays the component number, including version, of the result component defined to receive the multi-line normals, free text, or precanned comment results transmitted from the reference lab. Enter the component number, including version, to which reference lab comment results are transmitted. Each sendout-interface test must have this component defined as a result component.

SENDOUT LAB CROSS REFERENCE (TABLE LOOKUP-O)

This field indicates which sendout laboratories are cross-referenced to the reference lab selected. Enter the code and name of the laboratory from the Send Out Laboratories table created by your laboratory. A sendout laboratory is not eligible for selection if the referral type for the laboratory has been defined as *Interdepartmental*, or if sendout laboratory cross-reference to a different reference lab already exists.

If your institution has defined multiple sendout laboratories associated with a single reference lab, select all the sendout labs for which information will be transmitted through the STAR Lab Reference Interface.

DEFAULT REVIEW QUEUE CODE/DESCRIPTION (38-AN-R)

This field identifies the Default Review Queue code and description. Enter a code of up to 12 alphanumeric characters. Enter a description of up to 25 alphanumeric characters. If multiple sendout labs are cross-referenced in the Sendout Lab Cross Reference field, the system automatically creates a default review queue to correspond to each of the sendout laboratories defined.

If a specific reference lab review queue has not been linked to a test code, the system uses the default review queue code in the order transaction as the reference lab review queue for which any results sent from the designated reference lab are queued.

DEFAULT BATCH RELEASE QUEUE (1-A-R)

This field determines whether batch release processing of sendout-interface tests is permitted from the default review queue. Press the ENTER key or enter **N** to set the flag to prohibit batch release of sendout-interface results from the default review queue. Pressing ENTER or **N** also requires that you review each entry prior to acceptance. Enter **Y** to allow batch release processing of accessions/tests in the default review queue without reviewing each entry.

CROSS REFERENCE PROCESSOR

The Reference Lab system requires that orders sent from STAR Laboratory include the reference lab test code as a part of the order request transmission. Test results, the reference lab test code, and result component code(s) are received by STAR Laboratory in the result transmission from the reference lab.

To send orders and receive results, use the Cross Reference Processor worksheet to build a cross-reference file on STAR Laboratory that defines the relationship between STAR Laboratory and reference lab test codes and result component codes. Test code and result component cross-reference information must be defined for all sendout-interface tests used on the STAR Laboratory system before Test File Synch Up.

STAR LABORATORY TEST (5-C-R)

Enter STAR Laboratory sendout-interface test code and the name of the test (up to 33 characters) for which you are defining test cross-reference parameters.

REFERENCE LAB TEST CROSS REFERENCE (ANP-R)

Enter the reference lab test code. This field defines the cross-reference between a selected sendout-interface test and the reference lab test code. The length of this field is determined by the Ref Lab Test Length field definition in the Interface Parameters processor. The format of this information depends upon the reference lab with which you are communicating.

STAR LABORATORY RESULT COMPONENT (5-C-R)

Enter STAR Laboratory result component codes(s) and the name of the result corresponding to the sendout-interface test for which you are defining result cross-reference parameters.

REFERENCE LAB RESULT CROSS REFERENCE (ANP-O)

Enter the reference lab result code. This field identifies the reference lab result code to be assigned as the cross-reference for the corresponding STAR Laboratory result component for the selected sendout-interface test. The format of this information depends upon the reference lab with which you are communicating.

REVIEW QUEUE/TEST

When test results from the reference lab are received on STAR Laboratory, the system sorts them into the result component order defined for the sendout-interface test code. These results are stored in the Result file on STAR Laboratory. The system changes the test status to Partial and places the test in the designated reference lab review queue.

The Review Queue/Test worksheet is used to define reference lab review queues and crosslinks to the appropriate sendout-interface tests.

NOTE: If a specific review queue has not been linked to a sendout-interface test code, the default review queue code displays in the order transaction as the

reference lab review queue to which any results sent from the reference lab are queued. The default review queue code and description are defined in the Interface Parameters processor.

CODE (12-AN-R)

Enter a code of up to 12 alphanumeric characters. This field contains the review queue code for the department and sendout lab selected.

DESCRIPTION (25-AN-R)

Enter a description of up to 25 alphanumeric characters. This field contains the review queue description for the department and sendout lab selected. This name displays in Ref Lab Review Queue result reporting.

BATCH RELEASE QUEUE (1-A-R)

This field determines whether batch release processing of sendout-interface tests is permitted from the selected user-defined reference lab review queue. Enter **N** to prohibit batch release processing of sendout-interface results from the selected reference lab review queue. Entering **N** requires that you view each entry in the queue prior to acceptance. Enter **Y** to allow batch release processing and waive viewing each entry in the reference lab review queue.

TEST CODE (5-C-R)

Enter the sendout-interface test(s) to be linked to the selected reference lab review queue. This field contains the list of sendout-interface tests linked to the reference lab review queue for the department and sendout lab selected.

REF LAB PROMPT/TEST

Reference lab prompts are used to request additional patient or specimen collection information required by the designated reference laboratory for test processing. You can use the Ref Lab Prompt/Test worksheet to define Reference Lab prompts and crosslinks to the appropriate sendout-interface tests.

During accessioning for a linked sendout-interface test, the system displays these prompts as you define them. You can associate the same prompt with one or more sendout-interface test codes, as needed.

CODE (12-AN-R)

Enter a code of up to 12 alphanumeric characters. This field contains the code for the reference lab prompt for the selected department.

REFERENCE LAB PROMPT (36-ANP-R)

Enter a prompt of up to 36 alphanumeric characters, including punctuation.

This field contains the reference lab prompt that displays during the accessioning process. The prompt can be edited, using the // editor. This text displays in Patient Inquiry, prints on the Travel List Report, and is transmitted in the order transaction to the reference lab.

DEFAULT RESPONSE (36-ANP-O)

Enter a default response of up to 36 alphanumeric characters, including punctuation. This field contains the default response that displays with the reference lab prompt, if defined. The default response can be edited by using the //editor.

TEST CODE (5-C-R)

Enter the sendout-interface test(s) to be linked to the selected reference lab prompt. This field contains the list of sendout-interface tests linked to the reference lab prompt for the department and reference lab selected. At least one test code must be entered before the Ref Lab Prompt/Test information can be filed.

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INTRODUCTION

The Flags/Utilities - System Options must be set by your McKesson representative prior to build. This chapter describes flag, test, result, and menu setup requirements to implement the Reference Laboratory Interface.

The following Maintenance - Flags/Utilities files must be defined prior to building Reference Lab Interface files:

- Flags -Department define department level flag to activate Reference Lab Interface.
- Flags-Labels define flag settings for printing of interdepartment and sendout transfer labels at Accessioning.

The following Table Data - General files must be defined prior to building Reference Lab Interface files:

- Container Types
- Ordering Priorities (for each department)
- Special Instructions
- Specimens
- Send Out Laboratories
- Storage Requirement Types
- Workload Files

NOTE: Modifications to these tables may be required to include any information specifically required for tests processed at the user-designated reference laboratory.

The following menus must be built, using the Table Data - Department processors and prior to building the Reference Lab Interface files:

- Laboratory Menu - Main
- Laboratory Menu - Section
- Laboratory Menu - Bay
- Laboratory Menu - Results

The following Maintenance -Report/Printer/Fax files must be defined, prior to building Reference Lab Interface files:

- Spooler Report and Printer Definition define sendout label and travel list reports by default section.
- Spooler Printer Definition define sendout label and travel list reports by default section and provide for the selection of alternate printers.

Refer to Chapter 11: Spooler/Printer Matrix in the *Maintenance Functions Volume II* of the *STAR Laboratory Reference Guide* for additional information and instructions.

Section Organization

The Maintenance Processors section consists of:

- Reference Lab Interface Test Build Instructions
- Reference Lab Interface Processors

The Reference Lab Interface Test Build Instructions describe the General Test processors that create and maintain Reference Laboratory Interface test level specific information:

- Results and Normals
- Special Test Information
- Interdepartment Referral/Sendout Labels
- Crosslinks
- Review Queue

The Reference Laboratory Interface Processors are designed specifically for the Reference Lab Interface. They include:

- Interface Parameters
- Cross Reference Processor
- Print Cross Reference Report
- Test File Synch Up
- Review Queue/Test
- Ref Lab Prompt/Test

- Interface Audit
- Start/Stop Ref Lab Interface
- Manual Dial Reference Lab

REFERENCE LAB INTERFACE TEST BUILD INSTRUCTIONS

A *sendout-interface* test is defined as a test performed at a user-designated reference laboratory for which test order and result information is transmitted electronically between STAR Laboratory and the reference laboratory. This process occurs by using the STAR Laboratory Reference Lab Interface.

Test files must be built prior to defining additional information specific to the Reference Lab Interface processes for each sendout-interface test. Certain fields within the test builders are specific to sendout-interface tests. Only these fields are covered in this document. Refer to the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide* for further details on building test files.

General Hospital Maintenance Functions Processor	
Mon Jun 12, 1995 05:07 pm	
Page:01	Laboratory Maintenance Functions
(1) Employee Data	(18) Maintenance - Recall Mgmt
(2) Archiving Parameters	(19) Maintenance - Report/Printer/Fax
(3) Collection Walk Order	(20) Maintenance - Sales Commission
(4) HELP Text Edit	(21) Maintenance - Workload
(5) Maintenance - Adv Bld Bank Int	(22) Maintenance Types
(6) Maintenance - Advanced Micro	(23) Maintenance Types Listing
(7) Maintenance - Anatomic Path	(24) Table Data - Department
(8) Maintenance - Barcode	(25) Table Data - General
(9) Maintenance - Contract Billing	(26) Table Exclusions - General
(10) Maintenance - Equip/Instrument	(27) Table Types - Department
(11) Maintenance - Flags/Utilities	(28) Table Types - General
(12) Maintenance - General Test	(29) Unlock accession number
(13) Maintenance - Interface	(30) Utility - Recancel Test
(14) Maintenance - Lookup Groups	
(15) Maintenance - Mnemonics/Menus	
(16) Maintenance - PC Downloading	
(17) Maintenance - QC	
Enter choice--	

Access the Maintenance - General Test menu. If your system is multidepartment, you must select the appropriate department before continuing.

Result Components

You can build components using the Result Components processor located under Maintenance - General Test for Laboratory Maintenance Functions. Result components are the base elements used to make up a test. You can use them singly or grouped with other components.

The following result components are required on each sendout-interface test to be resulted with the Reference Lab Interface and must be defined in the Results and Normals processor:

- Reference Lab Comments, Multi-Line Normals

A result component to be defined with special processing *Word Proc.- Reference Lab* to which multi-line normals, precanned, and free text comments will automatically be filed on STAR Laboratory. This result component will be cross-referenced to the Comment segment of the result transaction by entering the component number in the WP Component field of the Reference Lab Interface Parameters processor.

- Reviewed By

A result component to be defined with special processing *Auto Fill ID/Required* that will automatically fill with the ID of the person who reviews the test results.

To define the result components required, select the Result Components processor.

General Hospital Maintenance Functions Processor	
Laboratory	Fri May 28, 2004 10:46 am
Page:01	Laboratory Test Maintenance Functions
(1) A - Result Components	(18) Maintenance types - Test
(2) B - Create NEW TEST	(19) Maintenance types list - Test
(3) C - Result and Normals	(20) Z - Charge Component/Rept Def
(4) C - Service Item Maintenance	(21) Z - Component Field Audit
(5) D - Calculations	(22) Z - Component/Test Xref
(6) D - Cell Counter - Keypad Assign	(23) Z - Default Section/Test Xref
(7) D - Cell Counter - Parameters	(24) Z - Hemogram display for test
(8) D - Crosslinks	(25) Z - Main Information/Labels
(9) E - Cleared Results	(26) Z - Partial for Pat. Inquiry
(10) E - Group Assign - Instrument	(27) Z - Update test from components
(11) E - Group Assign - Worksheet	(28) Z - Utility - Delinquent Criteria
(12) E - Interdepartment Test Codes	(29) Z - Utility - Duplicate/Conflict
(13) E - Review Queue	(30) Z - Utility - Overlap Report
(14) E - Test Method Assignment	(31) Z - Utility - Panel Definition Re
(15) F - Format Exception Report	
(16) F - Interp Reporting Parameters	
(17) F - Long Report	
Enter choice--	

When you select Result Components, the following prompt displays:

Enter 'T' for test, '*' component #, component name ('-' for table) --

Enter the name of the new result component. The following prompt displays:

Add result component 'nnnnnn' (Y/N)? --

To add the new result component, enter Y. The system displays the following screen:

General Hospital Maintenance Functions Processor			
Laboratory		Fri May 28, 2004 10:47 am	
A - Result Components			
		Component # - 10967A	
1 Result Component Name	2 Short Name	3 Units of measure	
REFLAB COMMENT	REFLCOMM		
4 Specimen Type	5 QC Constituent Code (CAP)		
6 Descriptive Method	7 Lookup/CK	5 Exclusion	8 Delta
	No		Not Defined
9 Valid Values	10 Valid Range		
Not Defined	Not Defined		
11 Panic Values	12 Normal Ranges		
Not Defined	Not Defined		
13 Result Processing	14 Number of Decimals		
15 Edit By	16 Edit Date/Time		
	02/16/04 11:48am		
Enter field number or '/' starting field number--			

For each sendout-interface test, define additional result components as needed, corresponding to results transmitted from the reference laboratory. If a test performed in-house has the same analyte as a test performed by the reference lab, you must build a new result component for the sendout-interface test. For each result component, units of measure must be defined to correspond to the units defined on the reference laboratory system.

On these components, normal ranges and panic value flagging are transmitted in the result transaction from the reference laboratory. You do not have to define normal ranges and panic values on STAR Laboratory.

15. EDIT BY (DISPLAY ONLY)

This field contains the name of the person who last edited the component screen. The field remains blank until the component screen has been edited.

16. EDIT DATE/TIME (DISPLAY ONLY)

This field contains the date and time the component screen was last edited. The field remains blank until the component screen has been edited.

For detailed information on each field on this screen, refer to Chapter 6: Supporting Test Files in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

Main Information/Labels

The first fields specific to sendout-interface tests are located under the Main Information/Labels processor. The Main Information/Labels processor displays on the Maintenance - General Test menu. When you select Main Information/Labels, the following prompt displays:

Enter test code or first letters '-' --

Indicate the test using one of the table entry techniques described in Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

Enter the desired test code. In this example, the code 6505 was entered corresponding to the Stone Analysis test.

```

General Hospital Maintenance Functions Processor
Community Lab                               Mon Jun 12, 1995 05:27 pm
Section - Send Outs
Bay - SEN-Send Out Bay
STONE ANALYSIS Options                      Test Code - 6505

( 1 ) ALLSTAR Information
( 2 ) Basic Test Information
( 3 ) Special Test Information

( 4 ) Collection Labels
( 5 ) Accession Labels
( 6 ) Interdepartment Referral/Sendout Labels

Enter option(s) to edit, Lab(L) or all(A)--

```

Select the Special Test Information processor.

SPECIAL TEST INFORMATION

Once you select the Special Test Information option, the system displays the following screen:

```

General Hospital - Main Information/Labels Processor
Community Lab                               Mon Jun 12, 1995 05:29 pm
Section - Send Outs
Bay - SEN-Send Out Bay
STONE ANALYSIS Special Test Information      Test Code - 6505
1 Test Type                                2 Master Test
General                                     3 Reference Type
4 Number Pools                             5 Anatomic Path Case Number Pool

6 Single Col. Primary 7 Inq. results in Rev.Q 8 Inq. Result Display security
Yes                                                            Yes
9 Display Partial 10 Panic Report Security 11 T-Code Specimen Selections
Yes                                                            N/A

12 Security Crosslinks 13 Incomplete 14 Delinquent 15 Resulting 16 Patient Inq
Yes                                                            No
15 Days                                                        No

Enter sendout(S) or interdepartment (I)--

```

Field Explanations

3. REFERENCE TYPE (1-A-O)

STAR Laboratory enables special handling of tests performed at another laboratory (sendouts or interdepartment referrals) by generating mailing labels and travel lists, appending the performing laboratory's name to reports, and maintaining a complete audit trail of the specimen's location.

For test codes defined with the *General test type*, the following prompt displays:

Enter sendout(S) or ref(R) lab interface --

Enter **S**, if the test is a sendout. The field displays Sendout. Enter **R** if the test is a sendout-interface test transmitted to the reference lab through the Reference Lab Interface. The field displays Sendout-Interface.

For test codes defined as Advanced Microbiology, Anatomic Pathology, or Advanced Blood Bank, the system displays the following prompt:

Enter sendout(S)--

Enter **S**, if the test is a sendout. The field displays Sendout.

If your institution is multidepartment, the following prompt displays for test codes defined with the General test type:

Enter sendout(S), interdepartment(I) or ref(R) lab interface --

Enter **S**, if the test is a sendout. The field displays Sendout. Enter **I** if the test is an interdepartment referral. The field displays Interdepartment. Enter **R** if the test is a sendout-interface test transmitted to the reference lab through the Reference Lab Interface. The field displays Sendout-Interface.

If your institution is multidepartment, the system displays the following prompt for test codes defined as Advanced Microbiology, Anatomic Pathology, or Advanced Blood Bank:

Enter sendout(S) or interdepartment(I)--

Enter **S** if the test is a sendout. The field displays Sendout. Enter **I** if the test is an interdepartment referral. The field displays Interdepartment.

When you complete the fields of this screen, the system prompts you to accept your entries. Enter **Y** to accept your entries to the fields. Enter **N** to continue editing the screen.

NOTE: The Reference Type field is the only field on this screen that requires specific entry instructions for sendout-interface tests. For detailed information on

each field on this screen, refer to Special Test Information in Chapter 5: Main Test Information in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

INTERDEPARTMENT REFERRAL/SENDOUT LABELS

If a test is defined as a sendout, sendout-interface, or interdepartment test, additional information must be defined in the Interdepartment Referral/Sendout Labels processor. This processor enables you to build the necessary information to track the specimen and generate labels for tests not performed at the ordering department.

This processor cannot be accessed unless the test is defined as either a sendout, sendout-interface, or interdepartment in the Reference Type field of the Special Test Information screen.

You can access the Interdepartment Referral/Sendout Labels option by selecting Main Information/Labels on the Maintenance - General Test menu. The system displays the following screen:

General Hospital Maintenance - General Test Processor		
Community Lab		Mon Jun 12, 1995 11:08 am
Section - Send Outs		
Bay - SEN-Send Out Bay		
STONE ANALYSIS Special Test Information		Test Code - 6505
1 Reference Type	2 Reference Lab	
Sendout-Interface	Smith Kline	
3 Reference Container(s)	4 Macro Volume	5 Micro Volume
		N/A
6 Special Instruction	7 Storage Requirements	
8 Collection Requirements		
Enter field number or '/' starting field number--		

Field Explanations

1. REFERENCE TYPE (DISPLAY ONLY)

This field displays one of the following options: *Sendout*, *Sendout-Interface*, or *Interdepartment*, as specified on the Special Test Information screen.

2. REFERENCE LAB (TABLE LOOKUP)

This field displays the name of the laboratory at which this test is to be performed. The system displays the following prompt:

Enter sendout lab code, first letters '-' or '-' for table--

Indicate the name of the performing laboratory by entering a code or a hyphen (-) to display and select from a list of laboratories. The table display depends on the reference type definition.

If the test is a sendout or interdepartment, the Send Out Laboratories table displays. If the test is a sendout-interface, the table lists only those sendout laboratories with sendout lab cross-references defined in the Interface Parameters builder.

7. STORAGE REQUIREMENTS (2-N-O)

Certain specimens require special storage requirements during transport to maintain specimen integrity before test processing. The Storage Requirement Type table displays for selection. The system displays the following prompt:

Enter storage requirement option [3]--

Select the storage requirement to assign to this test. The field displays the description of the storage requirement type selected.

NOTE: This information is used in generating the Travel List report if the report is sorted by storage requirements. If a specific storage requirement is not defined for the test, the system default for the Travel List report is *Refrigerated*.

8. COLLECTION REQUIREMENTS (1-N-O)

Certain tests require specimen weight or volume information as a part of the test processing. If a test is a sendout-interface, this field indicates the collection criteria to be requested at accessioning time by enabling you to select one of the following options:

- Collection Volume Required - to make Collection Volume a required field on the Ref Lab Prompt/Response screen in the Accessioning processor.
- Collection Weight Required - to make Collection Weight a required field on the Ref Lab Prompt/Response screen in the Accessioning processor.

The system displays the following prompt:

Enter collection volume(V) or weight(W) required or none(N) [N]--

If you enter **V**, the field displays C Volume Required. If you enter **W**, the field displays C Weight Required. If you enter **N**, the field displays None.

NOTE: If the test is defined as a Sendout or Interdepartment, this field cannot be edited; the field displays N/A.

When you complete the fields of this screen, the system prompts you to accept your entries. Enter **Y** to accept your entries to the fields. Enter **N** to continue editing the screen.

NOTE: Only the fields requiring specific entry instructions for sendout-interface tests are documented. For detailed information on each field on this screen, refer to Interdepartment/Sendout Labels in Chapter 5: Main Test Information in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

Results and Normals

The Results and Normals processor is used to assign the result components required for each test. When you define results for sendout-interface tests to be resulted using the Reference Lab Interface, you should include only those result components cross-referenced to results on reference lab tests. In addition, if a test performed in-house has the same analyte as a test performed by the reference lab, you must have a unique result component assigned to each test.

In addition, the result components designated for reference lab comments and multi-line normals (Ref Lab Comment), and for identifying the person reviewing the results (Reviewed By) must be assigned to each sendout-interface test. Refer to “[Result Components](#)” on page 2-6 for more information on these components.

NOTE: When results are transmitted from the reference lab, STAR Laboratory overwrites all existing results. You must build tests performed at the reference lab as separate test codes. Do not include components resulted on STAR Laboratory.

You can access the ResultsComponents option by selecting Results and Normals on the Maintenance - General Test menu. After you define the result components, perform the following steps to assign the Special Processing features:

1. Enter the desired test code. The screen displays the list of previously defined results for the selected test. You can then add new or edit existing results.
2. To edit a result, enter **E**. To add a result, enter **A** and indicate the result component to add by entering the component number, or by entering a hyphen (-) to select from the table.

Enter the desired test code. In the following example, test code 6505 was entered to access STONE ANALYSIS. Since this test has been resulted, the prompt at the bottom of the screen is as follows:

Enter option to edit or add(A) --

General Hospital Maintenance - General Test Processor		
Community Lab	Mon Jun 12, 1995 12:06 pm	
Section - Send Outs	Bay - SEN-Send Out Bay	
STONE ANALYSIS Special Test Information	Test Code - 6165	

S=Special Proc'ing,R=Recall Mgt	12 Results for Test 6505	Page:01
---------------------------------	--------------------------	---------


```

( 1) 10808A Ca Oxalate Monohydr
( 2) 10809A Ca Oxalate Dihydrat
( 3) 10810A Mg Ammon Phos Hexah
( 4) 10811A Ca Phospate Carbona
( 5) 10812A Ca Phosphate Hydrox
( 6) 10102B Uric Acid
( 7) 10813A Cystine(%)
( 8) 10814A Sodium Acid Urate(
( 9) 10815A Tricalcium Phosphat
(10) 10816A Ammonium Acid Urate
(11) 10384A*Comment
(12) 10510A^Lab Comment

```


Enter option to edit or add(A)--

For detailed information on this screen, refer to Chapter 6: Supporting Test Files chapter in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

A is entered to add the Ref Lab Comment result component. The result to add is indicated by entering the result component number 10919A. Once the desired result is accessed, the following screen displays:

General Hospital Maintenance - General Test Processor		
Community Lab	Tues Sept 18, 2001 11:38 am	
Section - Send Outs	Bay - SEN-Send Out Bay	
STONE ANALYSIS Results and Normals	Test Code - 6505	

Component Name: Smith Kline Comments	Component #: 10919A
--------------------------------------	---------------------

1 Required/Optional	2 External/Internal	3 History Cardfile
->		
4 Special Processing		
Word Proc.- Reference Lab		
5 Workload	6 Addendum Only	
**		

* COMPONENT PARAMETERS - DISPLAY ONLY *		
7 Delta Check	8 Valid Range	9 Valid Values
Not Defined		Not Defined
10 Panic Values	11 Normal Ranges	
Not Defined	Not Defined	
12 Recall Management	13 Number of Decimals	

Is result required(R) or optional(O)? [R]--

Field Explanations

4. SPECIAL PROCESSING (2-N-R)

This field defines how the component selected is to be resulted within the test selected. You can change only special processing options of the same type of data storage. For example, you cannot change a component defined as word processing to any other special processing option. Nor can you change a test defined as a special processing option other than word processing to word processing. The default is Free Form Text, but several other options are available.

NOTE: The Word Processing option of the Special Processing field is the only option on this screen that requires specific entry instructions for sendout-interface tests. For detailed information on each field on this screen, refer to Chapter 6: Supporting Test Files in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

Enter the correct option if this is a word processing result.

Four types of word processing options exist when you select Word Processing. The fourth option is limited to the result component defined in the WP Component field of the Reference Lab Interface Parameters processor. The system automatically displays *Word Proc.- Reference Lab*. Multiline normals, free text, and precanned comments transmitted in the Comment segment of the result transaction from the reference laboratory are filed to this component.

REFERENCE LAB INTERFACE PROCESSORS

The Reference Lab Interface menu provides you with functions to define, test, and maintain communications over the Reference Lab Interface system.

```

General Hospital Administration Maintenance Functions Processor
                                Tue Sep 18, 2001 11:14 am

Page:01                      Laboratory Maintenance Functions
( 1) Employee Data              (18) Maintenance - Report/Printer/Fax
( 2) Archiving Parameters       (19) Maintenance - Sales Commission
( 3) Collection Walk Order      (20) Maintenance - User Preferences
( 4) HELP Text Edit             (21) Maintenance - Workload
( 5) Maintenance - Adv Bld Bank Int (22) Maintenance Types
( 6) Maintenance - Advanced Micro (23) Maintenance Types Listing
( 7) Maintenance - Anatomic Path (24) Table Data - Department
( 8) Maintenance - Barcode      (25) Table Data - General
( 9) Maintenance - Contract Billing (26) Table Exclusions - General
(10) Maintenance - Equip/Instrument (27) Table Types - Department
(11) Maintenance - Flags/Utilities (28) Table Types - General
(12) Maintenance - General Test  (29) Unlock accession number
(13) Maintenance - Interface     (30) Utility - Incomplete work file
(14) Maintenance - Lookup Grps/Chk5 (31) Utility - Recancel Test
(15) Maintenance - PC Downloading
(16) Maintenance - QC
(17) Maintenance - Recall Mgmt

Enter choice--

```

Select the Maintenance - Interface menu. The system displays the following screen:

```

General Hospital Maintenance - Interface Processor
General Hospital Maintenance - Interface Processor
                                Wed Jan 26, 2011 04:42 pm

Maintenance - Interface Input Options

Option No.  Option
-----
      1      Ancillary Interface Maintenance
      2      HL7 Maintenance
      3      REPLICA Interface

      4      View HL7 Transactions

      5      Image Manager Cold Feed Interface Functions
      6      Remove Top Record from Interface

Enter option number--

```

Select Ancillary Interface Maintenance. The system displays the Ancillary Interface Maintenance menu.

```
General Hospital Ancillary Interface Maintenance Processor
                                Tue Sep 18, 2001 11:18 am
Ancillary Interface Maintenance Input Options

Option No.  Option
-----
      1      Interface Control
      2      Display Interface Errors
      3      Communication Line Status
      4      Incoming Ancillary Transaction Audit
      5      Outgoing Ancillary Transaction Audit
      6      Interface Parameter Maintenance
      7      Reference Lab Interface

Enter option number--
```

Select Reference Lab Interface. The system displays the Reference Lab Interface menu:

```
General Hospital Reference Lab Interface Processor
                                Mon Jun 12, 1995 10:36 am
Reference Lab Interface Input Options

Option No.  Option
-----
      1      Interface Parameters
      2      Cross Reference Processor
      3      Print Cross Reference Report
      4      Test File Synch Up
      5      Review Queue/Test
      6      Ref Lab Prompt/Test
      7      Interface Audit
      8      Start/Stop Ref Lab Interface
      9      Manual Dial Reference Lab

Enter option number--
```

This menu contains the following functions:

- Interface Parameters - Use this function to define internal parameters required to run the Reference Lab Interface.

- Cross Reference Processor - Use this function to define the STAR Laboratory and Reference Lab test code and result component code cross-reference file.
- Print Cross Reference Report - Use this function to print a report of all sendout-interface tests and their respective components. This report also prints the value defined as cross-references for each corresponding reference lab test code and its associated results.
- Review Queue/Test - Use this function to define multiple reference lab review queues and to link STAR Laboratory sendout-interface test codes to the appropriate review queue.
- Test File Synch Up - Use this function to ensure that test files between the STAR Laboratory and the user-designated reference laboratory systems are in synch with each other.
- Ref Lab Prompt/Test - Use this function to define prompts for required test-specific information and to link to selected STAR Laboratory sendout-interface test codes.
- Interface Audit - Use this function to display an audit of transaction records between the two systems.
- Start/Stop Ref Lab Interface - Use this function to activate/inactivate Reference Lab Interface.
- Manual Dial Reference Lab - Use this function to manually dial out to the designated reference lab for transmission of queued results.

Interface Parameters

The Interface Parameters processors define internal parameters required for the Reference Lab Interface. These parameters include programs to control communication between STAR Laboratory and the reference lab system and to provide basic information required for operation of the Reference Lab Interface.

McKesson personnel must define certain parameters before you can run the Reference Lab Interface. These parameters are usually not changed. When you select Interface Parameters, the system checks to ensure that these McKesson-maintained settings have been defined. If they have not been defined, the system displays the following error message:

ASTM Reference Lab Interface NOT available! Call HBOC!

You must also set the Reference Lab Interface field in the General Department processor under Maintenance - Flags/Utilities to Yes before you access this option. If you have not set this flag to Yes, the system displays the following error message when you select Interface Parameters:

ASTM Reference Lab Interface NOT activated for this department!

When you select the Interface Parameters option from the Reference Lab Interface Maintenance menu, the system displays a list of reference laboratories available. The table display includes only those reference laboratories defined to interface with STAR Laboratory Reference Lab Interface.

```

General Hospital Interface Parameters Processor
Mon Jun 12, 1995 02:32 pm

Interface Parameters

Page:01                      Reference Lab Interfaces
( 1) ARUP
( 2) NHL
( 3) PAML
( 4) Roche
( 5) Smith Kline

Enter choice--

```

Enter the number of the reference lab you wish to edit. The system displays the following screen. For this example, *Smith Kline* was selected.

```

General Hospital Interface Parameters Processor
Tues Sept 18, 2001 02:09 pm

Interface Parameters-Smith Kline

1 Protocol Program      2 Transaction Program      3 Error Program
***                    ***                    ***
4 Error Log             5 Interface Port           6 Audit
LABREF7 (8050)          8050                      No
7 Retain audit days     8 Communications          9 Phone Number
N/A                    Auto-Dial                  1800111111
10 Auto-Dial Times (Maximum 15)
1000,1500
11 Sign On ID           12 Password               13 Sender ID      14 Client Acct Code
11                     123                      111
15 Reference Lab ID     16 Ref Lab Test Length    17 WP Component
1111                   10                       10946A
18 Sendout Lab Cross Reference 19 Default Review Queue Code/Description
Defined                SENDOUT-SENDOUT REV Q
20 Default Batch Release 21 Edit By                22 Edit Date
No                     Smith, JF                  03/03/98 1859

Enter field number or '/' starting field number--

```

Pressing ENTER or period (.) ENTER at the above prompt returns you to the Reference Lab Interface Maintenance menu screen.

Field Explanations

1. PROTOCOL PROGRAM (13-UN-R)

This field identifies the program that establishes communication with the reference lab. The program is unique to the selected reference lab. This field is for McKesson use only. If your security level is less than 90, the system displays three asterisks (***) in this field, instead of the program name.

2. TRANSACTION PROGRAM (13-UN-R)

This field identifies the program that formats the records/orders sent to the reference lab. The program is unique to the selected reference lab. This field is for McKesson use only. If your security level is less than 90, the system displays three asterisks (***) in this field, instead of the program name.

3. ERROR PROGRAM (13-UN-R)

This field identifies the program that prints error messages relating to the Reference Lab interface. The program is unique to the selected reference lab. This field is for McKesson use only. If your security level is less than 90, the system displays three asterisks (***) in this field, instead of the program name.

4. ERROR LOG (TABLE LOOKUP-R)

This field identifies the report to which the system should print the error log. The system level report name *LABREF#* is created during Reference Lab Interface implementation. The # corresponds to a number representing each reference laboratory defined to interface with the STAR Reference Lab Interface.

Enter the port used for the Interface Error Log for the reference lab selected. Only one port can be entered. The system displays the following prompt:

Enter port to be used for reference lab interface error log --

Both the report name *LABREF#* corresponding to the reference lab selected and port number (in parenthesis) entered display in this field.

5. INTERFACE PORT (4-N-R)

Enter the port used for communications over the Reference Lab Interface. You can change this field if you encounter hardware errors with this port. The system displays the following prompt:

Enter port number for the reference lab interface --

6. AUDIT (1-A-R)

This field determines whether the system should maintain an online audit of transactions sent over the interface. The system displays the following prompt:

Do you wish to retain an audit? (Y/N) [N] --

Enter **N** if you do not wish to maintain this audit information; the system then bypasses the Retain Audit Days field. Enter **Y** to maintain the online audit of transactions.

7. RETAIN AUDIT DAYS (1-N-R)

This field identifies the number of days the system should retain audit information before automatically deleting the data during midnight processing. Enter the number of days the system should retain the audit data; this value must be less than four (4). The default is 3. The system displays the following prompt:

Enter number of days to retain audit (0-3) [3] --

You cannot edit this field if you entered **N** to the Audit field.

8. COMMUNICATIONS (1-A-R)

This field identifies the type of communication line being used. The system displays the following prompt:

Enter auto-dial(A) or leased line(L) for communication line --

Enter **A** if the communication line is auto-dial; enter **L** if the communication line is leased.

If you enter **L**, the system bypasses the Phone Number and Auto-Dial Times fields.

9. PHONE NUMBER (30-NP-C)

The field contains the phone number the system dials to communicate with the reference lab. The system displays the following prompt:

Enter reference lab phone number --

If the system must dial an outside line, remember to enter **9**, followed by a comma (,) for any pauses.

10. AUTO-DIAL TIMES (4-N-O)

This field contains the times at which the STAR Laboratory system should automatically dial the reference lab to retrieve queued results. Defining auto dial times enables queued test results to be submitted from the reference lab to STAR Laboratory more efficiently. The system displays the following prompt:

Enter Auto-Dial Times, separated by "," (0600, 1200, 1800, 2359) --

Enter these times using the military time format (where 0000 is midnight and 1200 is noon). Separate each auto-dial time with a comma (,). Valid times are 0000 to 2359. You can enter up to 15 times. Times display in numeric order.

Information required to complete Fields 11 through 15 can be obtained by contacting the reference laboratory.

11. SIGN ON ID (12-ANP-R)

This field contains the user sign-on identification required to log on to the reference laboratory system. The system displays the following prompt:

Enter Sign On ID --

The format of this information depends upon the reference lab with which you are communicating.

12. PASSWORD (10-ANP-O)

This field contains the password required to log on to the reference laboratory system. The system displays the following prompt:

Enter password --

The system transmits the password after sending the contents of the Sign On ID field. The format of this information depends upon the reference lab with which you are communicating.

13. SENDER ID (10-ANP-R)

This field contains the sender identification (client code) required to access the reference lab system. The system displays the following prompt:

Enter Sender ID --

The format of this information depends upon the reference lab with which you are communicating.

14. CLIENT ACCT CODE (10-ANP-O)

This field allows the user to define the client account code assigned to his specific institution by the designated reference lab. The system displays the following prompt:

Enter client account code --

Enter the client code, if required by the designated reference lab. The format of this information is determined by the reference lab.

15. REFERENCE LAB ID (8-ANP-R)

This field contains the user sign-on identification required from the reference lab to access STAR Reference Lab Interface. The system displays the following prompt:

Enter Reference Lab ID --

The format of this information depends upon the reference lab with which you are communicating.

16. REF LAB TEST LENGTH (2-N-R)

This field identifies the length of the reference lab test code. The system displays the following prompt:

Enter the length of the reference lab test code --

This field is used in the Cross Reference processor to determine the length of the test code cross-reference.

17. WORDPROCESSING COMPONENT (6-AN-R)

This field displays the component number, including version, of the result component defined to receive the multi-line normals, free text, or precanned comment results transmitted from the reference lab. The system displays the following prompt:

Enter component number to be used for reference lab comment results --

Enter the component number, including version, to which reference lab comment results are transmitted. Each sendout-interface test must have this component defined as a result component. The system displays the following error message if the number entered is not a valid result component number:

Error: Invalid component number!

18. SENDOUT LAB CROSS REFERENCE (TABLE LOOKUP-O)

This field indicates which sendout laboratories are cross-referenced to the reference lab selected. When you enter this field, a table of sendout laboratories displays.

A sendout laboratory is not included in the table display if the referral type for the laboratory has been defined as *Interdepartmental* in the Table Data General - Sendout Laboratories processor. A sendout laboratory is not included in table display if a sendout laboratory cross-reference to a different reference lab already exists. The table supports multiple paging. The system displays the following prompt:

*Enter choices (e.g. 1,7,5-9) or '-'choices to remove--
end selection (NL)*

Select one or more option(s) to be cross-referenced to the reference lab selected. If your institution has defined multiple sendout laboratories associated with a single reference lab, select all the sendout labs for which information will be transmitted through the STAR Reference Lab Interface.

After you select the sendout labs, the field displays Defined.

19. DEFAULT REVIEW QUEUE CODE/DESCRIPTION (38-AN-R)

This field identifies the default review queue code and description. If a specific reference lab review queue has not been linked to a sendout-interface test code, the system uses the default review queue code in the order transaction as the reference lab review queue for which any results sent from the designated reference lab are queued.

When you access this field, the system displays the following prompt:

Enter the default review queue code--

This code can be up to 12 alphanumeric characters. The system displays the following prompt:

Enter the default review queue description --

The description can be up to 25 alphanumeric characters. If multiple sendout labs are cross-referenced in the Sendout Lab Cross Reference field, the system automatically creates a default review queue to correspond to each of the sendout laboratories defined.

20. DEFAULT BATCH RELEASE QUEUE (1-A-R)

This field determines whether batch release processing of sendout-interface test is permitted from the default review queue. When you access this field, the system displays the following prompt:

Allow batch release from the default review queue? (Y/N) [N] --

Press ENTER or enter **N** to prohibit batch release processing of sendout-interface results from the default review queue. Pressing ENTER or entering **N** requires that you view each entry in the queue prior to acceptance. Enter **Y** to allow batch release processing and waive viewing each queued entry in the default review queue.

21. EDIT BY (DISPLAY ONLY)

This field displays the name of the person who last edited this screen.

22. EDIT DATE (DISPLAY ONLY)

This field displays the date and time when the information on this screen was last edited.

When you complete all required fields, the system prompts you to accept your entries. Enter **Y** or press ENTER to accept the changes you made to the fields of the screens; enter **N** to return to editing the fields.

When you accept the screen, the system displays the following message:

Filed!

and returns to the menu.

Cross Reference Processor

The Reference Lab system requires that orders sent from STAR Laboratory include the reference lab test code as a part of the order request transmission. STAR Laboratory receives test results, the reference lab test code, and result component code(s) in the result transmission from the reference lab.

The system builds a cross-reference file in STAR Laboratory to send orders and receive results. This file defines the relationship between STAR Laboratory and reference lab test codes and result component codes. Test code and result component cross-reference information must be defined for all sendout-interface tests in the Reference Lab Interface before the Test File Synch Up.

NOTE: The reference lab system does not allow multiple specimen types to be defined for the same test. A STAR Laboratory sendout-interface test must be built for each specimen before the cross-reference information can be defined. For example, if a test can be performed on blood and urine, a STAR Laboratory test code is defined for each specimen type.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Cross Reference Processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you access the Cross Reference Processor option from the Reference Lab Interface menu, the system displays the following prompt:

Enter sendout lab code, first letters '-' or '-' for table--

Enter the code for the desired sendout lab, or enter a hyphen (-) to display and select from a list of Sendout laboratories.

If interface parameters have not been defined for the selected sendout laboratory, the system displays:

ASTM Reference Lab Interface parameters not defined!

After you identify the sendout lab, the system displays the following prompt:

Enter test code, first letters '-' or '-' for table--

Enter the test code, or enter a hyphen (-) to display and select from a list of test codes defined with a reference type of sendout-interface. If you enter a test code which has not been defined as sendout-interface, the system displays a message similar to the following:

Error: "TEST DESCRIPTION not a sendout-interface type test!"

If you enter a test code that has not been defined as a sendout-interface test for the selected sendout lab code, the following error message displays:

Error: "TEST DESCRIPTION defined for SENDOUT LAB DESCRIPTION!"

TEST CROSS REFERENCE PROCESSING

You can perform the following functions during Test Cross Reference processing of sendout-interface tests:

- Add a new test cross-reference
- Edit an existing test cross-reference
- Delete an existing test cross-reference
- Add new result component cross-references
- Edit an existing result component cross-reference
- Delete an existing result component cross-reference

ADD NEW TEST CODE CROSS-REFERENCE

If you enter a sendout-interface test code for which no cross-reference exists, the system displays the following screen, with only the STAR Laboratory Test field completed:

```
General Hospital Cross Reference Processor
Community Lab                               Mon Jun 12, 1995 11:08 am
6025-ALPHA-1-FETOPROTIEN sent to Smith Kline
1 STAR Laboratory Test                      2 Reference Lab Test Cross Reference
  ALPHA-1-FETOPROTEIN
3 Edit By                                4 Edit Date

5 STAR Laboratory Result Component          Reference Lab Result Cross Reference

Enter Reference Lab Test Cross Reference-- |
```

For detailed information on this screen, refer to the Field Explanations under [“Edit Existing Test Code Cross-Reference”](#) on page 2-27.

EDIT EXISTING TEST CODE CROSS-REFERENCE

When you enter a test code with cross-reference information defined, the system displays the following screen with fields completed. You can edit the reference lab test or result cross-reference information.

General Hospital Cross Reference Processor	
Community Lab	Mon Jun 12, 1995 10:47 am
6025-ALPHA-1-FETOPROTIEN sent to Smith Kline	
1 STAR Laboratory Test	2 Reference Lab Test Cross Reference
ALPHA-1-FETOPROTEIN	
3 Edit By	4 Edit Date
5 STAR Laboratory Result Component	Reference Lab Result Cross Reference
10174B Alpha-Fetoprotein(ng/ml)	123456A
10919A Smith Kline Comment	765432B
10384A Comment	
10510A Lab Comment	
10696A Review Queue	
10513A Released By	
Enter field number or '/' starting field number--	

Field Explanations

1. STAR LABORATORY TEST (DISPLAY ONLY)

This field displays the description of the selected sendout-interface test. Up to 32 alphanumeric characters display.

2. REFERENCE LAB TEST CROSS REFERENCE (10-AN-R)

This field identifies the reference lab test code to cross-reference with the selected STAR Laboratory sendout-interface test code. The length of the field is determined by the Ref Lab Test Length field definition in the Interface Parameters processor. The format of this information depends upon the reference lab with which you are communicating. The system displays the following prompt:

Enter Reference Lab Test Cross Reference --

NOTE: Reference lab test code can contain alphanumeric characters, punctuation marks, and leading zeroes, but cannot contain leading spaces.

If you enter a reference lab test code that is cross-referenced to an existing STAR Laboratory test, the system displays the following message:

"Test Cross Reference exists for STAR LAB TEST CODE-DESCRIPTION!"

The system enables you to overwrite the existing cross reference by displaying the following prompt:

Accept REF LAB TEST CROSS REFERENCE as cross reference for STAR LAB TEST DESCRIPTION? (Y/N)--

Enter **N** if you do not want to overwrite the existing cross-reference. The system returns you to the initial prompt for this field. Enter **Y** to overwrite the existing cross-reference. When you accept the screen, the system files the reference lab test code associated to the current STAR Laboratory test. The previously defined test code cross-reference is deleted.

3. EDIT BY (DISPLAY ONLY)

This field displays the name of the person who last edited this screen.

4. EDIT DATE (DISPLAY ONLY)

This field displays the date and time of the last edit to this screen.

5. STAR LABORATORY RESULT COMPONENT/REFERENCE LAB RESULT CROSS REFERENCE (SPECIAL FORMAT-O)

This field defines the reference lab result code to cross-reference with a specific STAR Laboratory result component. The format of this information depends upon the reference lab with which you are communicating. A result cross-reference must be defined on STAR Laboratory to correspond to each result transmitted from the reference laboratory.

This field uses a scrolling screen for input. When you access the scrolling screen field, the system displays the following at the bottom of the screen:

F1Prev Page F2Next Page F5Delete F6 Reset F7Exit ?

NOTE: If you use the F5 Delete key to delete a reference lab result cross-reference, all sendout-interface tests for which the result component is defined will be affected. For more information on these function keys and how scrolling screens function, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The scrolling screen contains two columns of data: The STAR Laboratory result component and the assigned Reference Lab result cross-reference. These columns are explained as follows:

STAR LAB COMPONENT (DISPLAY ONLY)

This field displays the STAR Laboratory result component number and description of all result components defined for the selected test code.

REFERENCE LAB RESULT CROSS REFERENCE (ANP-O)

This field identifies the Reference Lab result code to be assigned as the cross-reference for the corresponding STAR Laboratory result component displayed in the first column of the table. When you access this field, the system displays:

Enter Reference Lab Result Cross Reference Code --

NOTE: Reference lab test code can contain alphanumeric, punctuation marks, and leading zeroes but cannot contain leading spaces.

Enter the reference lab result code. Spaces cannot be entered as part of this code. If you enter spaces, the system displays the following error message:

Error: "Can not enter space(s) for the result cross reference!"

When you complete your entries to the screen, the system displays the following prompt:

Accept this screen? (Y/N/D) [Y] --

Enter **Y** or press ENTER to exit the screen and file your entries. The system displays the message:

Filed!

and returns you to the initial prompt. Enter **N** to edit the screen. Enter **D** to delete the entry; the system displays the following prompt:

Delete test cross reference of TEST DESCRIPTION? (Y/N) [N]--

The test code is filed in the order transaction. A testcross-reference cannot be deleted until all current tests have been completed. If you enter **Y** and incomplete work exists, the following error message displays:

"Error: Incomplete work exists, cannot delete test cross reference!"

If no incomplete work exists, the test cross-reference is deleted. Result component cross-references that have been defined will not be deleted. The system displays the message:

Deleted!

and redisplay the initial Cross Reference screen.

If you enter **N** or accept the default, the system redisplay the following prompt:

Enter test code, first letters '-' or '-' for table --

The following conditions apply when you use the Cross Reference processor:

- All the result components defined for a STAR Laboratory sendout-interface test may not need to be cross-referenced. Only the result components corresponding to a specific Reference Lab result need to be cross-referenced.
- The entire result component number including the version is used in the cross reference. If a result component is updated through STAR Laboratory Results and Normals and a new version is created, the Reference Lab result cross reference must also be updated in the Cross Reference processor. Otherwise, the corresponding result component will not be found on STAR Laboratory and the results will be rejected.
- When you accept the screen, the system files the test code and result component cross-references. If a result component is defined for additional sendout-interface tests for the sendout lab selected, the reference lab result cross-reference automatically displays for all subsequent sendout-interface tests.
- If you edit a reference lab result cross-reference, all sendout-interface tests for which the result component is defined will be affected.

DELETE EXISTING TEST CODE

If a Reference Lab test cross-reference becomes obsolete, you can delete the cross-reference between the STAR Laboratory and Reference Lab tests. If the test code cross-reference has been previously defined, the previous Edit screen displays.

If you do not make any edits to the screen and press ENTER at the prompt, the following prompt displays:

Delete? (N)--

Enter **N** to return to the initial Cross Reference screen. Enter **Y** to continue deleting the code. The system checks to ensure that no incomplete work exists for the selected test code. If incomplete work exists, the following error message displays:

"Error: Incomplete work exists, cannot delete test cross reference!"

If no incomplete work exists for the code, the system displays:

Delete test cross reference of TEST DESCRIPTION? (Y/N) [N]--

Enter **N** or press ENTER to return to the initial Cross Reference screen without deleting the code. Enter **Y** to delete the test cross reference. Result component cross references that have been defined will not be deleted. The system displays Deleted! and then returns to the initial Cross Reference screen.

Print Cross Reference Report

The Print Cross Reference Report option enables you create a report displaying the established cross references between the STAR Laboratory and Reference Lab test codes and result component codes. The Cross Reference Report can include all or specific sendout-interface tests in one or more sections. You can use this report as a quality assurance tool and to document the sendout-interface test cross-reference information for the Laboratory Procedure Manual.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Print Cross Reference Report processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you select the Print Cross Reference Report option from the Reference Lab Interface menu, the system displays the following screen:

```
General Hospital Print Cross Reference Report Processor
Community Lab                               Mon Jun 12, 1995 11:32 am
Cross Reference Report Parameters

  1 Sendout Lab                2 Single Test
->

  3 Sections to Include        4 Section Sort        5 Alpha/Numeric Sort

  6 Printer
    West Side Closet (Port #55)

Enter field number or '/' starting field number --
```

Field Explanations

1. SENDOUT LAB (TABLE DISPLAY-R)

This field identifies the sendout lab to be included in the report. Enter the sendout lab code, or use a hyphen (-) to display and select from a list of sendout labs. The following prompt displays:

Enter sendout lab code, first letters '-' or '-' for table --

If you select a sendout lab for which no interface parameters have been defined, the systems displays:

ASTM Reference Lab Interface parameters not defined!

2. SINGLE TEST (1-A-R)

This field determines whether to print the Cross Reference Report for a single test code. When you access the field, the system displays:

Print Report for single test?(Y/N) [N]--

Enter **N** or press ENTER to print the report for multiple test codes. Enter **Y** to print the report for a single test code; the system then displays:

Enter test code, first letters '-' or '-' for table--

Enter the test code, or use a hyphen (-) to display and select from a list of test codes. If the test code entered is not defined with a reference type of sendout-interface, the system displays a message similar to the following:

Error: "TEST DESCRIPTION not a sendout-interface test type!"

If the test code and/or result component cross-reference information has not been defined for the sendout-interface test code entered, system displays error messages similar to the following, respectively:

Error: "No test cross reference for TEST DESCRIPTION!"

or

Error: "No result cross references for TEST DESCRIPTION!"

NOTE: If you print the report for a single test code, you cannot access the Section to Include, Section Sort, and Alpha/Numeric Sort fields.

3. SECTION TO INCLUDE (TABLE DISPLAY-C)

This field identifies the section(s) of the tests to include in the report. You cannot access this field if you entered **Y** to the Single Test field.

When you access this field, the system displays a table of sections for the department. The following prompt displays:

Enter choices (e.g. 1, 7, 5-9, '-' choices to remove or all(A) --

Enter the option number(s) of the section(s) to include on the report or enter **A** to include all sections. If you select a single section, the section description displays in the field. If you select multiple sections, Multiple displays in the field. If you select **A**, ALL displays in the field.

4. SECTION SORT (1-A-C)

This field determines whether the system should sort the report by section or print all tests as a single report. The field is valid only if one or more sections were selected in the Sections to Include field. The system displays the following prompt:

Print report by section? (Y/N) [N] --

Enter **N** or press ENTER if you do not want the system to sort the report by section. The system prints all tests as a single report.

Enter **Y** to print tests on the report by section. The system starts a new page of the report for each section. The system sorts sections in ASCII order of the section description.

5. ALPHA/NUMERIC SORT (1-A-C)

This field determines whether the system should sort tests on the report alphabetically or numerically by their test code. You cannot access this field if you entered **Y** to the Single Test field. If you entered **N** in the Single Test field, the following prompt displays:

Sort report alphabetically(A) or numerically(N) [N] --

Enter **A** to sort tests alphabetically within each section. If a section sort has not been defined, the report sorts the tests alphabetically within the whole report.

Enter **N** to sort tests numerically within each section. If a section sort has not been defined, the report sorts the tests numerically within the whole report.

6. PRINTER (TABLE LOOKUP-R)

This field identifies the printer on which the system produces the Cross Reference Report. Enter the option number of the desired printer from the table.

When you complete the fields of the screen, the system prompts you to accept your entries. Enter **N** to return to the screen and continue editing. Enter **Y** to accept the screen; the system then produces the report, displaying the following message:

Printing!

Figure 2.1 Cross Reference Report (ALGRLGR0)

DEPARTMENT NAME			
Cross Reference Report for REFERENCE LABORATORY			
REPORT TYPE			
Printed: Jun 12, 1995 08:30 am		Page:1	
Sort: Numeric			
Section: SOL			
Test Code	Test Name	Test Cross Reference	
7500	ALDOSTERONE, SERUM	230-ZW	
Result Component		Component Code	Component Cross Reference
Aldosterone (ng/dl)		10192A	450250
*Comment		10384A	
^Lab Comment		10510A	
^Smith Kline Ref Lab Comment		10919A	
^Review Queue		10696A	
Released By		10513A	
Test Code	Test Name	Test Cross Reference	
7502	ALPHA-1-FETOPROTEIN	237-ZW=	
Result Component		Component Code	Component Cross Reference
Alpha-Fetoprotein(ng/ml)		10174B	462600
*Comment		10384A	
^Lab Comment		10510A	
^Smith Kline Ref Lab Comment		10919A	
^Review Queue		10696A	
Released By		10513A	

Header Information

LINE 1

The description of the department replaces DEPARTMENT NAME in the first line of the report.

LINE 2

The description of the reference laboratory replaces REFERENCE LABORATORY in the second line of the report.

LINE 3

The following information replaces REPORT TYPE in the third line of the report:

- *Single Test - TEST DESCRIPTION (TEST CODE)* if the report is a single test report, or
- *Section(s) - SECTION DESCRIPTION(S)* if one or more sections are selected for the report
- *Section(s) - ALL* if all selections are selected for the report

LINE 4

This line is blank.

LINE 5

This line displays the date and time the report printed and the page number.

LINE 6

This line displays the sort selected (alphabetic or numeric).

LINE 7

This line prints the section code pertaining to this portion of the report. The section header prints only if the report is sorted by section. A new page starts for each section. The system sorts sections by the ASCII description of the section names.

LINE 8

This line prints any exception pertaining to this portion of the report. A new page starts for each exception. This line prints only if the following exceptions exist:

- If the test code cross reference information has not been defined, *"Exception: NO TEST CROSS REFERENCES DEFINED"*.

or

- If result component cross reference information has not been defined, *"Exception: NO RESULT CROSS REFERENCES DEFINED"*.

Body of Report

TEST CODE

The STAR Laboratory sendout-interface test code prints in this field. Up to five characters print.

TEST NAME

The STAR Laboratory sendout-interface test name prints in this field. Up to 32 characters print.

TEST CROSS REFERENCE

The Reference Lab test cross reference prints in this field. If there is no cross-reference information built for the sendout test, this field is blank.

RESULT COMPONENT

The result component name(s) defined for this STAR Laboratory sendout-interface test code print in this field. Up to 30 characters print.

COMPONENT CODE

The result component code(s) defined for this STAR Laboratory sendout-interface test code print in this field.

COMPONENT CROSS REFERENCE

The Reference Lab result cross-reference prints in this field. If there is no cross-reference information built for the result component, this field is blank.

If multiple sections are selected and no test or result cross-references are defined for any of the sections selected, the following message prints after the report header information:

"No cross references defined for the section(s) selected!"

At the end of the report, the system prints:

End of report!

If the report is longer than one page and the information for a test code is divided between two pages, the system prints the following message at the end of the page:

(Continued)

Test File Synch Up

Before you can run the Reference Laboratory Interface between STAR Laboratory and the designated reference laboratory system, you must ensure that the test files between the two systems are in synch with each other. The Test File Synch Up function enables you to verify that the test files of the two systems are in synch and helps to ensure the electronic transfer of information between the two systems.

NOTE: Running this process is not an optional feature. You must run the Test File Synch Up before you begin transmitting test order and result information between STAR Laboratory and the reference lab system.

When you access the Test File Synch Up option from the Reference Lab Interface menu, the following screen displays:

General Hospital Test File Synch Up Processor		Mon Jun 12, 1995 10:36 am
Community Lab		
Test File Synch Up Options		
Option No.	Option	

1	Send Ref Lab Test Files	
2	Compare Test Files	
Enter option number--		

This menu offers the following functions:

Send Ref Lab Test Files

Use this function to build a file of Reference Laboratory test codes on STAR Laboratory. This function prints a report listing the Reference Laboratory test codes.

Compare Test Files

This function compares the Reference Lab test definitions and the STAR Laboratory test and result cross references previously built in the STAR Laboratory Cross Reference processor. This function prints a report listing any discrepancies between the two systems.

One of the following processes outlined in the following steps is used to ensure that test files between the two systems are in synch. The process used is dependent on the designated reference laboratory.

METHOD 1

1. A McKesson technical resource, working with technical support from your institution, establishes interface communications between STAR Laboratory and the reference lab.
2. A printed report containing reference lab test information is received by your institution. Based on the reference lab, this report may include the entire test database or a partial list based on your institution's test order history.
3. On STAR Laboratory, using the Cross Reference processor, you should define test and result cross references for each sendout-interface test performed at the designated reference lab.
4. On STAR Laboratory, using the Send Test Files processor, the following process occurs:
 - a. Reference lab tests that have been cross-referenced to sendout-interface test codes are downloaded from STAR Laboratory to the designated reference lab.
 - b. Test and result information, corresponding to the downloaded reference lab tests, is uploaded to STAR Laboratory.
5. On STAR Laboratory, using the Compare Test File processor, you should compare the reference lab test information with the previously built test and result component cross references. The output for this process is a printed report listing any discrepancies between the two systems.

6. All discrepancies must be resolved before the Reference Lab Interface can be activated.

METHOD 2

1. A McKesson technical resource, working with technical support from your institution, establishes interface communications between STAR Laboratory and the reference lab.
2. A floppy disc containing a file of reference lab test information is received by your institution or the McKesson technical resource. Based on the reference lab, this file may include the entire test database or a partial list based on your institution's test order history.
3. A McKesson technical resource using this file creates a file on the STAR Laboratory containing the reference lab test information.
4. On STAR Laboratory, using the Cross Reference processor, you should define test and result component cross-references for each sendout-interface test performed at the reference lab.
5. On STAR Laboratory, using the Compare Test File processor, you should compare the reference lab test information with the previously built test and result component cross references. The output for this process is a printed report listing any discrepancies between the two systems.
6. All discrepancies must be resolved before the Reference Lab Interface can be activated.

SEND REF LAB TEST FILES

The Send Ref Lab Test Files processor enables you to build a file of the Reference Lab test and result information on STAR Laboratory. Using this processor, reference lab test and result information is downloaded to STAR Laboratory through the Reference Lab Interface. Use this processor when completing the Method 1 synch process previously detailed.

NOTE: You must contact the reference lab before this process is used. A flag must be activated on the reference lab for this process to be utilized. This flag is used to prevent accidental use after the synch process has been completed. The response from the reference lab is not always in real time. During hours of peak activity, several hours may be required for this process to be completed.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Print Cross Reference Report processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you select the Send Test Files option from the Test File Synch Up menu, the following screen displays:

```
General Hospital Send Ref Lab Test Files Processor
Community Lab                               Mon Jun 12, 1995 02:48 pm
Send Ref Lab Test Files

Page:01                                Reference Lab Interfaces
( 1) ARUP
( 2) Smith Kline

Enter choice--
```

The following prompt displays:

Enter choice--

Select the reference laboratory. The table display includes only those reference laboratories defined to use the Method 1 synch process. If your institution is interfaced to a reference lab not included in the table display, refer to the synch process as detailed in [“METHOD 2” on page 2-38](#).

If the reference lab selected does not have interface parameters defined, the following error message displays:

ASTM Reference Lab Interface parameters not defined!

When you select a valid reference lab, the following prompt displays:

Send request for result definitions? (Y/N)--

If you enter **N**, the system redisplay the initial Test File Synch Up screen.

If you enter **Y**, all cross-referenced sendout-interface test codes are transmitted to the reference laboratory from STAR Laboratory, using the Reference Lab Interface. During this process, reference lab test and result information is transmitted from the reference lab to STAR Laboratory. When the transmittal is complete, the Compare Test Files processor can be used to compare test information and ensure that the test files on both systems are in synch.

COMPARE TEST FILES

The Compare Test Files function enables you to check that the test files between STAR Laboratory and the designated reference laboratory system are in synch before you activate the Reference Laboratory Interface between the laboratories. This processor is used to compare the Reference Lab test definitions with the STAR Laboratory test and result cross-references previously built in the STAR Lab Cross Reference. The output is a printed report listing any discrepancies between the two systems.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Print Cross Reference Report processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you select the Compare Test Files option from the Test File Synch Up menu, the following screen displays:

```

                                General Hospital Compare Test Files Processor
Community Lab                               Mon Jun 12, 1995 03:39 pm
Compare Test Files

Page:01                                Reference Lab Interfaces
( 1) ARUP
( 2) NHL
( 3) PAML
( 4) Roche
( 5) Smith Kline

Enter choice--
```

The following prompt displays:

Enter choice--

Select the reference laboratory. The table display includes only those reference laboratories defined to interface with the STAR Laboratory Reference Lab Interface. If the reference lab selected does not have interface parameters defined, the following error message displays:

ASTM Reference Lab Interface parameters not defined!

When you select a valid reference lab, the following prompt displays:

Start cross reference compare? (Y/N)--

If you enter **N**, the system redisplay the initial Test File Synch Up screen. If you enter **Y**, the system compares the Reference Lab test definitions and the STAR Laboratory test and result cross-references previously built in the STAR Laboratory Cross Reference processor.

The output for this process is a printed report listing any discrepancies between the two systems. This report is generated to verify that STAR Laboratory sendout-interface test codes linked to a particular reference lab are properly cross-referenced before activating the Reference Lab Interface.

If discrepancies exist, they can be resolved by making corrections to the test code and result cross-referencing, using the STAR Laboratory Cross Reference processor. In addition, an McKesson technical resource can provide assistance.

NOTE: Not all result components defined for a specific STAR Lab test are cross-referenced to a corresponding reference lab result. For example, if a result component for Pathologist Interpretation is defined on a sendout-interface test, this component will not be cross-referenced to a test result on the reference lab.

Review Queue/Test

When the system receives test results from the reference lab, it sorts them into the result component order as defined for the sendout-interface test and stored in the Result file. The system changes the test status to *Partial* and places the test in the user-designated reference lab review queue.

An extra result component, defined as *Reviewed By*, is added to each sendout-interface test. This field automatically fills with the ID of the person reviewing the test results. When the results are accepted, the system changes the test status to *Done* and removes the test from the reference lab review queue and Incomplete Work Lists. The test level flag setting determines whether the test is included on the Incomplete Worklist.

The Review Queue/Test processor fulfills the requirement for the automatic queuing of test result transactions received from the Reference Lab to user-defined review queues. You can define a review queue and its associated sendout-interface test code cross-references with this processor. Each sendout-interface test code can be linked to a single reference lab review queue.

NOTE: Reference Lab Review Queues are defined based on the specific requirements of your laboratory for reviewing reference lab test results. Reference Lab Review Queues can be defined based on section to review, type of specimen, type of test, or a single test if *stat* processing is required.

Each sendout-interface test can be linked to a single reference lab review queue which determines where results are queued when transmitted from the reference lab. Accessions are automatically queued to the default reference lab review queue if a specific review queue link has not been defined.

If a specific review queue has not been linked to a sendout-interface test code, the default review queue code displays in the order transaction as the reference lab review queue to which any results sent from the reference lab are queued. The default review queue code and description are defined in the Interface Parameters processor.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Review Queue/Test processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you access the Review Queue/Test option from the Reference Lab Interface menu, the system displays the following prompt:

Enter sendout lab code, first letters '-' or '-' for table--

Enter the sendout lab code, or use a hyphen (-) to display and select from a list of sendout laboratories.

If the selected sendout lab does not have interface parameters defined, the system displays the following:

ASTM Reference Lab Interface parameters not defined!

To print the Review Queue/Test information, press ENTER at the previous prompt. The following prompt displays:

Print Review Queue/Test report (Y/N) [N] --

Refer to [“Print Review Queue/Test Information” on page 2-51](#) for detailed information on printing this report.

When you select a valid sendout lab, the system displays the following screen:

General Hospital Review Queue/Test Processor			
Community Lab		Mon Jun 12, 1995 10:23 am	
Smith Kline Review Queue			
Code	Description	Edit by	Edit Date Page:01
(1) BLB	BLOOD BANK REVIEW	Smith,Janet F	7/22/95 1023
(2) CHM	CHEMISTRY REVIEW	Smith,Janet F	7/22/95 1023
(3) CSUPV	CHEM SUPERVISOR REVIEW	Smith,Janet F	7/22/95 1023
(4) HEM	HEMATOLOGY REVIEW	Smith,Janet F	7/22/95 1023
(5) HSUPV	HEME SUPERVISOR REVIEW	Smith,Janet F	7/22/95 1023
(6) GENERAL	GENERAL REVIEW	Smith,Janet F	7/22/95 1023
(7) PATH	PATHOLOGIST REVIEW	Smith,Janet F	7/22/95 1023
(8) SPCHM	SPECIAL CHEMISTRY REVIEW	Smith,Janet F	7/22/95 1023
(9) SPHEM	SPECIAL HEMATOLOGY REVIEW	Smith,Janet F	7/22/95 1023
(10) TOXO	TOXICOLOGY REVIEW	Smith,Janet F	7/22/95 1023
Enter option to edit, add(A) or delete(D) review queue--			

This screen displays a table of the reference lab review queues defined for the department and selected sendout lab. The code display can be up to 12 alphanumeric characters. The description display can be up to 25 alphanumeric characters. This table allows single selection only and does support multiple paging.

If no review queues have been defined, the system does not display this screen. The first screen that displays is documented under the Add A Review Queue option.

From this screen, you can access the following functions:

ADD

Enter **A** to create a new review queue code and description.

DELETE

Enter **D** to delete the code and description of the review queue, as well as all test code cross-references, to the review queue.

EDIT

Enter the option number of a review queue to edit the review queue description or the associated test code cross-references.

ADD A REVIEW QUEUE

To add a new reference lab review queue, enter **A**. The system displays the following screen:

```
General Hospital Review Queue/Test Processor
Community Lab
Smith Kline Review Queue

Mon Jun 12, 1995 10:23 am

Enter review queue code--
```

NOTE: This screen also displays when you access this function if no review queues exist.

The following prompt displays:

Enter review queue code --

Enter the code for the new reference lab review queue. This code is alphanumeric, uppercase and can have up to 12 characters. The code must be unique for the laboratory department and sendout lab selected. If an existing code is entered, the system displays the Edit screen for the code.

If you enter a code that is a duplicate of the default review queue for the sendout lab selected, the system displays the following error message:

Error: "Code defined as default for REFERENCE LAB Interface!"

When you enter a new code, the system displays the following screen with the code already filled in:

```

                                General Hospital Review Queue/Test Processor
Community Lab                      Mon Jun 12, 1995 04:39 pm
Smith Kline Review Queue

( 1)Code                        : SER
( 2)Description                  :
( 3)Batch Release Queue         :
( 4)Edit By                     :
( 5)Edit Date                   :
( 6)Test Code Cross Reference:

Enter Review Queue description--
```

For information on these fields refer to the Field Explanations under [“Edit A Review Queue” on page 2-47](#).

DELETE A REVIEW QUEUE

To delete an obsolete reference lab review queue, enter **D**. The system displays the following screen:

```

                                General Hospital Review Queue/Test Processor
Community Lab                      Mon Jun 12, 1995 05:06 pm
Smith Kline Review Queue

      Code      Description      Edit by      Edit Date Page:01
( 1) CHEMISTRY  SMITH KLINE CHEMISTRY  Smith,Janet F  04/04/95 1058
( 2) SEROLOGY   SMITH KLINE SEROLOGY   Smith,Janet F  04/04/95 1059

Enter option to edit, add(A) or delete(D) review queue--
```

If you enter **D** for delete, the following prompt displays:

Enter option to delete --

If more than one page of review queues exists, you can enter a slash (/) to access the next page. Enter the option number for the review queue to delete. In this example, the Serology Review Queue is selected. The following screen displays:

```
General Hospital Review Queue/Test Processor
Community Lab                               Mon Jun 12, 1995 05:01 pm
Smith Kline Review Queue

Delete SEROLOGY-SMITH KLINE SEROLOGY? (Y/N)--
```

At the top of the screen, the system displays the description of the selected reference lab. The system checks whether the reference lab review queue code selected is linked to any sendout-interface test code(s). The review queue code is filed in the order transaction; a review queue cannot be deleted until all current tests filed to the designated reference lab review queue have been completed. If incomplete tests exist, the following warning message displays:

Warning: Incomplete work exists, cannot delete Review Queue!

If no sendout-interface test code(s) are filed to the selected reference lab review queue, the following prompt displays:

Delete REVIEW QUEUE CODE-DESCRIPTION (Y/N)--

Enter **N** to exit without deleting the review queue; the system returns to the initial screen for this function. Enter **Y** to continue deleting the reference lab review queue. The system displays the following message:

REVIEW QUEUE CODE-DESCRIPTION deleted!

The system deletes the code and description of the reference lab review queue and all test code cross-references assigned to the review queue. You can reuse a deleted review queue code.

EDIT A REVIEW QUEUE

This function enables you to edit the description of a reference lab review queue or the associated sendout-interface test code cross-references. To edit the review queue information, enter the option number of the desired queue. The following screen displays:

```

                                General Hospital Review Queue/Test Processor
Community Lab                               Mon Jun 12, 1995 04:39 pm
Smith Kline Review Queue

( 1)Code                : SER
( 2)Description         : SEROLOGY REVIEW
( 3)Batch Release Queue : Yes
( 4)Edit By            : Jan Smith
( 5)Edit Date          : 5/22/95
( 6)Test Code Cross Reference: Defined

Enter field number or '/' starting field number--
```

Field Explanations

1. CODE (DISPLAY ONLY)

This field contains the code for the reference lab review queue for the department and reference lab selected.

2. DESCRIPTION (25-AN-R)

This field contains the descriptive name of this reference lab review queue. This name displays in Reference Lab Review Queue Result Reporting. When you access this field, the following prompt displays:

Enter Review Queue description --

If you enter a description that is already in use by another review queue for the reference lab selected, the system displays the following:

Error: "Description already in use!"

3. BATCH RELEASE QUEUE (1-A-R)

This field determines whether batch release processing of sendout-interface tests is permitted from the selected user-defined reference lab review queue. When you access this field, the following prompt is displayed:

Allow batch release from the reference lab review queue? (Y/N) [N] --

Press **Enter** or enter **N** to prohibit batch release processing of sendout-interface results from the selected reference lab review queue. Pressing **ENTER** or entering **N** requires that you view each entry in the queue prior to acceptance. Enter **Y** to allow batch release processing and waive viewing each entry in the reference lab review queue.

Impact

In Reference Lab Review Queue Reporting, the batch release option is included in the prompt display, if the batch release queue flag is active for the reference lab review queue selected.

4. EDIT BY (DISPLAY ONLY)

This field displays the name of the person who last edited this screen.

5. EDIT DATE (DISPLAY ONLY)

This field displays the date and time of the last edit to this screen.

6. TEST CODE CROSS REFERENCE (SPECIAL PROCESSING-R)

This field displays *Defined* if test code cross-references have been defined for the selected reference lab review queue. The test code cross-reference is required for acceptance of this screen.

When you access this field, the system displays the following screen:

```

General Hospital Review Queue/Test Processor
Community Lab                               Mon Jun 12, 1995 10:23 am Smith
Kline Review Queue: SER-SEROLOGY REVIEW

Page:01 SER-SEROLOGY REVIEW is linked to the following sendout-interface test(s):
( 1) 6040-ANTI-DNA ANTIBODY                 (17) 4010-DARKFIELD EXAM
( 2) 6045-ANTI-DNASE B TITER                 (18) 6230-EPSTEIN-BARR VIRUS, IGG
( 3) 6050-ANTI-GLOMERULAR BASEMENT          (19) 6300-HEPATITIS A ANTIBODY, IGM
( 4) 6055-ANTI-MITOCHONDRIAL ANTIBO        (20) 6305-HEPATITIS B CORE ANTIBODY
( 5) 6060-ANTI-SMOOTH MUSCLE ANTIBO        (21) 6310-HEPATITIS B SURFACE ANTIB
( 6) 7005-ANTI-STREPTOLYSIN O TITER         (22) 1075-IGA IMMUNOGLOBULIN
( 7) 6065-ANTI-THROMBIN III                 (23) 1080-IGG IMMUNOGLOBULIN
( 8) 6070-ANTI-THYROID ANTIBODIES          (24) 1085-IGM IMMUNOGLOBULIN
( 9) 7010-C-REACTIVE PROTEIN               (25) 6350-IMMUNE COMPLEX PROFILE
(10) 4005-CHLAMYDIA DFA SCREEN              (26) 1490-IMMUNOELECTROPHORESIS, CS
(11) 6125-CHLAMYDIA, DIRECT, IFA           (27) 1495-IMMUNOELECTROPHORESIS, SE
(12) 6155-COMPLEMENT, TOTAL (CH50)        (28) 1500-IMMUNOELECTROPHORESIS, UR
(13) 6170-COXSACKIE B ANTIBODY             (29) 6355-IMMUNOGLOBULINS
(14) 6225-ECHOVIRUS ANTIBODY               (30) 6365-INSULIN ANTIBODY
(15) 6190-CYTOMEGALOVIRUS ANTIBODY         (31) 6335-HLA B27
(16) 6195-CYTOMEGALOVIRUS ANTIBODY,       (32) 6400-LIPOPROTEIN PHENOTYPE

Enter option to delete or add(A) review queue cross reference--

```

This screen displays the sendout-interface test(s) linked to the selected reference lab review queue. If no test code cross-references are defined, the system does not display this screen. The first screen that displays is documented under the following Add option.

The following options are available on this screen:

ADD

Enter **A** to add new test code cross-reference(s) to the selected reference lab review queue.

DELETE

Enter **D** to delete existing test code cross-reference(s) to the selected reference lab review queue.

Add a Test Code Cross-Reference

This function adds new sendout-interface test code cross-references to the Reference Lab Review Queue selected. The following screen displays when you enter **A** on the previous screen or if no test code cross-references are defined for the review queue selected.

```

                                General Hospital Review Queue/Test Processor
Community Lab                               Mon Jun 12, 1995 05:42 pm
Smith Kline Review Queue

( 1)Code                               : SER
( 2)Description                         : SEROLOGY REVIEW
( 3)Edit By                            : Jan Smith
( 4)Edit Date                          : 5/22/95 1000
( 5)Test Code Cross Reference: Defined

Page:01                                Available Sendout-Interface Tests      ##=Current Choices
( 1) 6005-ALDOLASE-CHARGE PANEL TEST    (11) 6205-DHEA-SULFATE
( 2) 6125-CHLAMYDIA, DIRECT, FA         (12) 6215-DIGITOXIN
( 3) 6130-CHLORAMPHENICOL              (13) 6465-PROGESTERONE
( 4) 6155-COMPLEMENT, TOTAL (CH50)     (14) 6605-STONE ANALYSIS
( 5) 6165-COPPER, URINE                 (15) 6510-T3 BY RIA
( 6) 6170-COXSACKIE B ANTIBODY
( 7) 6185-CULTURE, CHLAMYDIA
( 8) 6184-CULTURE, VIRAL - HERPES
( 9) 6190-CYTOMEGALOVIRUS ANTIBODY IGG
(10) 6200-DESIPRAMINE

Enter choices (e.g. 1,7,5-9) or '-'choices to remove--
                                end selection(NL)

```

The screen lists only those sendout-interface tests, with test and result component cross-reference information defined, that have not been linked to a reference lab review queue for the sendout lab and department selected. The table begins on the eleventh line and includes page numbers. The following message displays:

Available Sendout-Interface Tests

The table displays up to 20 tests in a two-column format. The test code displays up to 5 numbers and the test description displays up to 28 alphanumeric characters. The table supports multiple paging and multiple selection.

The following prompt displays:

```

Enter choices (e.g 1,7,5-9) or '-' choices to remove--
                                end selection(NL)

```

Select one or more option(s) to be added to the designated reference lab review queue. The system has a limit on the maximum number of tests selected when using the multiple selection option from the table display. The following system error message displays:

Maximum # of entries exceeded! Last valid entry is ##.

If this message displays, enter all valid entries and press ENTER. The same table redisplay so additional selections can be made. If all available sendout-interface tests have been cross-referenced, the following error message displays:

No available tests to link to this Review Queue!

When all selections have been made, press ENTER to end the selection. If you exit the Test Code Cross Reference screen without entering cross-reference information, the system displays the following prompt:

Test Code Cross Reference must be defined in order to file! Continue editing? [Y]--

If you enter **Y**, the Test Code Cross Reference screen redisplay. You must enter cross-reference data before you can accept this screen. When all required fields are completed, the system displays the following prompt:

Accept? (Y/N) [Y]--

When you accept the entries, the *Filed!* message displays and the system redisplay the initial screen for the Review Queue/Test processor.

Enter **N** to edit and the system redisplay the following prompt:

Enter field number or '/' starting field number--

Delete a Test Code Cross-Reference

This function enables you to remove obsolete sendout-interface test code cross-references. Tests that have previously been queued to the reference lab review queue are not affected.

```

General Hospital Review Queue/Test Processor
Community Lab                               Mon Jun 12, 1995 06:25 pm
Smith Kline Review Queue

( 1)Code                : SEROLOGY
( 2)Description         : SMITH KLINE SEROLOGY
( 3)Edit By            : Smith, Janet F
( 4)Edit Date          : 04/04/95 1059
( 5)Test Code Cross Reference: Defined

Page:01      SMITH KLINE SEROLOGY is linked to the following test(s):
( 1) 6040-ANTI-DNA ANTIBODY
( 2) 6045-ANTI-DNASE B TITER
( 3) 6050-ANTI-GLOMERULAR BASEMENT MEM
( 4) 6055-ANTI-MITOCHONDRIAL ANTIBODY
( 5) 6060-ANTI-SMOOTH MUSCLE ANTIBODY
( 6) 6065-ANTI-THROMBIN III
( 7) 6070-ANTI-THYROID ANTIBODIES

Enter option to delete or add(A) review queue cross reference--

```

When you access this screen, the system displays the following prompt:

Enter option to delete or add(A) review queue cross reference --

If more than one page of test code cross-references is defined, you can enter a slash (/) to access the next page. When you enter the option number for the test code cross-reference to delete, the following prompt displays:

Delete TEST CODE-DESCRIPTION cross reference? (Y/N) [N]--

If you enter **Y**, the following message displays:

TEST CODE-DESCRIPTION link to this review queue deleted!

If you enter **N**, the system redisplay the initial screen.

PRINT REVIEW QUEUE/TEST INFORMATION

When you exit the Review Queue/Test processor, the system prompts you to print the reference lab prompts/test information:

Print Review Queue/Test report? (Y/N) [N]--

Enter **N** or accept the default to exit the processor without printing a report. The system displays the Reference Lab Interface menu.

Enter **Y** to print the report. The report prints on the General Laboratory printer. The standard table display for printers displays. When you select a printer and accept the screen, the system displays the following message:

Printing!

Refer to the following Print Review Queue/Test Report:

Figure 2.2 Print Review Queue/Test Report (ALGRLGR0)

Printed: Mon Jun 12, 1995 10:23 am

Page: 1

DEPARTMENT NAME

Review Queue/Test for SENDOUT LABORATORY

'' indicates batch release active

REVIEW QUEUE (CODE)	TEST CODE CROSS REFERENCE
SEROLOGY REVIEW (SER)*	6040-ANTI-DNA ANTIBODY
	6045-ANTI-DNASE B TITER
	6050-ANTI-GLOMERULAR BASEMENT
	6055-ANTI-MITOCHONDRIAL ANTIBODY
	6060-ANTI-SMOOTH MUSCLE ANTIBODY
	7005-ANTI-STREPTOLYSIN O TITER
	6065-ANTI-THROMBIN III
	6070-ANTI-THYROID ANTIBODIES
	7010-C-REACTIVE PROTEIN
	4005-CHLAMYDIA DFA SCREEN
	6125-CHLAMYDIA, DIRECT, IFA
	6155-COMPLEMENT, TOTAL (CH50)
	6170-COXSACKIE B ANTIBODY
	6190-CYTOMEGALOVIRUS ANTIBODY
	6195-CYTOMEGALOVIRUS ANTIBODY,
	4010-DARKFIELD EXAM
	6225-ECHOVIRUS ANTIBODY
	6230-EPSTEIN-BARR VIRUS, IGG
	6300-HEPATITIS A ANTIBODY, IGM
	6305-HEPATITIS B CORE ANTIBODY
	6310-HEPATITIS B SURFACE ANTIBODY
	1075-IGA IMMUNOGLOBULIN
	1080-IGG IMMUNOGLOBULIN
	1085-IGM IMMUNOGLOBULIN
	6350-IMMUNE COMPLEX PROFILE
	1490-IMMUNOELECTROPHORESIS, CSF
	1495-IMMUNOELECTROPHORESIS, SERUM
	1500-IMMUNOELECTROPHORESIS, URINE
	6355-IMMUNOGLOBULINS

Header Information

LINE 1

This line of the report displays the date and time the report printed and the page number.

LINE 2

The description of the department replaces DEPARTMENT NAME in the second line of the report.

LINE 3

The description of the sendout laboratory replaces SENDOUT LABORATORY in the third line of the report.

LINE 4

This line is blank.

LINE 5

This line contains the following text: ** indicates batch release active.

Body of Report

The Review Queue/Test report is sorted first alphabetically by description of the review queues, then alphabetically by the test code cross-reference.

REVIEW QUEUE NAME/CODE

The first column of the data is the review queue name followed by the review queue code in parentheses. Up to 25 alphanumeric characters print for review queue name. Up to 12 alphanumeric characters print for review queue code. If batch release processing is activated for the review queue, an '*' displays following the reference lab review queue code.

TEST CODE CROSS REFERENCE NAME

The STAR Laboratory sendout-interface test code and description prints in this field. Up to 5 numbers print for test code and 30 alphanumeric characters print for test description.

At the end of the report, the following message prints:

End of report!

If the report is longer than one page and the information for a test code is divided between two pages, the system prints the following message at the end of the page:

(Continued)

Ref Lab Prompt/Test

Reference Lab Prompts are used to request additional patient or specimen collection information required by the designated reference lab for test processing. You can use the Ref Lab Prompt/Test processor to create reference lab prompts and link to specific sendout-interface test codes. You can associate the same prompt with one or more test codes, as needed. During accessioning of a sendout-interface test, the system displays these prompts as you define them.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Ref Lab Prompt/Test processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you access the Ref Lab Prompts/Tests option from the Reference Lab Interface menu, the system displays the following prompt:

Enter prompt code, first letters '-', or '-' for table--

To print the reference lab prompts/test information, press ENTER. The following prompt displays:

Print Ref Lab Prompt/Test report? (Y/N) [N] --

Refer to [“Print Ref Lab Prompt/Test Information” on page 2-58](#) for more information on printing this report.

To access an existing reference lab prompt, enter the prompt code or use a hyphen (-) to display and select from a list of existing prompts. To add a prompt code, enter the new code. Codes can be up to 12 alphanumeric characters in uppercase and must be unique for the laboratory department selected. If you enter an existing code, the system displays the Ref Lab Prompt/Test definition screen under the Add option.

NOTE: If you entered a hyphen (-) at the previous prompt, the system displays the following screen:

General Hospital Ref Lab Prompt/Test Processor		Mon Jun 16, 1995 11:14 am
Community Lab		
Ref Lab Prompt/Test		
Page:01		
Reference Lab Prompts		
(1) ABTHERAPY	- List antibiotics patient receiving	
(2) LASTDOSE	- D/T LAST DOSE? ADM MODE? REASON?	
(3) BLDTYPE	- Enter patient's blood type	
(4) CKTOTAL	- Enter value for Total CK (I/U)	
(5) LASTHEPARIN	- HEPARIN/COUMADIN? DATE LAST DOSE?	
(6) DRUGS	- ILLEGAL DRUGS?	
(7) FASTING	- Is patient fasting?	
(8) LISTMEDS	- List meds taken in last 48 hrs	
Enter choice--		

This screen displays a table of existing Reference Lab Prompt codes and descriptions sorted in ASCII order by description for the department selected. The code display can be up to 12 alphanumeric characters. The description display can be up to 36 alphanumeric characters including punctuation. This table allows single selection only and does not support multiple paging.

ADD/EDIT A REFERENCE LAB PROMPT

When you enter a new reference lab prompt code or select an existing code to edit, the following screen displays. In this example, an existing code LIST MEDS is used.

General Hospital Ref Lab Prompts/Test Processor				
Community Lab		Mon Jun 12, 1995 11:15 am		
Ref Lab Prompts/Test				
1 Code	2 Reference Lab Prompt			
LISTMEDS	LIST MEDICATIONS TAKEN IN LAST 48 HRS			
3 Default Response	4 Edit by	5 Edit Date		
NO MEDS	Smith, Janet F	05/25/95 08:00 am		
6 Test Code	Test Name	Sendout Lab		
7514	BENZOTROPINE	Smith Kline		
7503	DOXEPIN	Smith Kline		
Enter field number or '/' starting field number--				

Field Explanations

1. CODE (DISPLAY ONLY)

This field contains the code for the Reference Lab Prompt for the selected department.

2. REFERENCE LAB PROMPT (36-ANP-R)

This field contains the Reference Lab prompt that displays during the accessioning process. The prompt can be up to 36 alphanumeric characters, including punctuation, and can be edited using the // editor. Reference lab prompts and responses are filed at Accessioning. Editing a prompt description affects future orders only. When you access this field, the following prompt displays:

Enter reference lab prompt --

Enter the reference lab prompt. This text displays in Patient Inquiry, prints on the Travel List Report, and is transmitted in the order transaction to the reference lab.

The system checks your entry to ensure that you are not duplicating an existing entry. If you enter a prompt that is a duplicate of an existing prompt, the system displays the following error message:

Error: Prompt already in use!

3. DEFAULT RESPONSE (36-ANP-C)

This optional field contains the default response that displays, if defined for the prompt. The default response can be up to 36 alphanumeric characters, including punctuation, and can be edited using the // editor. When you access this field, the following prompt displays:

Enter default response --

Enter the default response. During the accessioning process, the default response automatically displays with the reference lab prompt and can be edited. This text displays in Patient Inquiry, prints on the Travel List Report, and is transmitted in the order transaction to the reference lab.

4. EDIT BY (DISPLAY ONLY)

This field displays the name of the person who last edited this screen.

5. EDIT DATE (DISPLAY ONLY)

This field displays the date and time of the last edit to this screen.

6. TEST CODE/TEST NAME/SENDOUT LAB (SPECIAL FORMAT-R)

This field identifies the reference lab sendout-interface test code(s) to cross-reference to the reference lab prompt selected. This field uses a scrolling screen for input. When you access the scrolling screen field, the system displays the following at the bottom of the screen:

F1Prev Page F2Next Page F3 Insert F4 Delete F6 Reset F7 Exit ?

For more information on these function keys and how scrolling screens function, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The following three columns of data display for the sendout-interface test linked to this reference lab prompt. You enter the test code; the system then displays the test code description and the performing sendout lab for each test. These columns are explained in detail in the following section:

TEST CODE (TABLE DISPLAY-R)

Use this field to define a test code cross-reference to the reference lab prompt. The system displays the following prompt:

Enter test code, first letters '-' or '-' for table--

Enter the test code, or use a hyphen (-) to display and select from a list of sendout-interface test codes. If you enter a hyphen (-) on a field with existing reference lab prompt information, the following error message displays:

Error: Cannot overwrite current test information!

If you enter a test code that is already linked to the reference lab prompt, the following error message displays:

Test already linked to prompt!

If you enter a test code that has not been defined with a reference type of sendout-interface, the system displays:

Error: "TEST DESCRIPTION not a sendout-interface test type!"

If the test code and result component cross reference information has not been defined for the sendout-interface test code selected, the following error messages display:

Error: "No test cross reference for TEST DESCRIPTION!"

or

Error: "No result cross references for TEST DESCRIPTION!"

This field is required. At least one test code must be entered before the Ref Lab Prompt/Test information can be filed. If you enter **Y** at the Accept prompt, the following message displays if no information has been entered:

Field 6 is required! Continue editing? [Y] --

TEST NAME (DISPLAY ONLY)

This column displays up to 32 characters of the description for the test code entered to the Test Code column.

SENDOUT LAB (DISPLAY ONLY)

This column displays up to 30 characters of the description for the sendout laboratory corresponding to the code entered to the Test Code column.

When you finish your entries to the scrolling screen, press **F7** to exit the screen.

When you complete all required fields, the system displays the following prompt:

Accept this screen? (Y/N/D) [Y]--

Enter **N** to return to editing the screen. Enter **D** to delete. Delete processing is documented in the following section.

Enter **Y** or press **ENTER** to accept your changes to the screen. After accepting the entries, the *Filed!* message displays and the system redisplay the following prompt:

Enter prompt code, first letters'-', or '- ' for table--

NOTE: If a test code is linked to multiple reference lab prompts, the display order of the reference lab prompts in Accessioning, Revise Ref Lab Prompt, Patient Inquiry, and Travel List report follows the order in which the test was linked to the reference lab prompts. For more information, refer to the STAR Lab Maintenance Functions Ref Lab Prompt/Test processor.

DELETE A REFERENCE LAB PROMPT

You can use the Delete function to remove the code, prompt, and default response of an obsolete Reference Lab Prompt. None of the accessions that have previously used this prompt will be affected. When you select an existing code, the system displays the Ref Lab Prompts/Test definition screen. In this example, an existing code LIST MED is displayed.

```
General Hospital Ref Lab Prompts/Test Processor
Community Lab                               Mon Jun 12, 1995 08:23 am
Link Ref Lab Prompts/Test
 1 Code                2 Reference Lab Prompt
  LISTMEDS              LIST MEDICATIONS TAKEN IN LAST 48 HRS
 3 Default Response    4 Edit by                5 Edit Date
  NO MEDS              Smith, Janet F          05/25/95 08:00 am
 6 Test Code   Test Name
 7514          BENZOTROPINE
 7503          DOXEPIN
                  Smith Kline
                  Smith Kline
                  Smith Kline

Enter field number or '/' starting field number--
```

The following prompt displays:

```
Enter field number or '/' starting field number--
```

If you press ENTER, the following prompt displays:

```
Delete? (N)--
```

If you enter **Y**, the following message displays:

```
REFERENCE LAB PROMPT DESCRIPTION and link to test code(s) deleted
```

If you enter **N**, the system redisplay the initial Ref Lab Prompts/Test screen.

PRINT REF LAB PROMPT/TEST INFORMATION

When you exit the RefLab Prompt/Test processor, the system prompts you to print the reference lab prompt/test information:

```
Print Ref Lab Prompt/Test report? (Y/N) [N]--
```

Enter **N** or press ENTER to exit without printing a report. The system returns you to the Reference Lab Interface menu.

Enter **Y** to print the report on the General Laboratory printer. The system displays a table of printers. Enter the option number of the printer that you want to use to produce the report. Once you select the printer and accept the screen, the system displays the following message:

Printing!

Figure 2.3 Ref Lab Prompt/Test Report (ALGRLGR0)

Jun 12, 1995 08:30 am		Page: 1
DEPARTMENT NAME		
Reference Lab Prompt/Test Report		
Test Code	Test Name	
7514	BENZOTROPINE	
Ref Lab Prompt		Default Response
ENTER LAST DOSE DATE AND TIME		
LIST MEDICATIONS TAKEN IN LAST 48HRS NO MEDS		
Test Code	Test Name	
7503	DOKEPIN	
Ref Lab Prompt		Default Response
ALLERGIES?		
ENTER LAST DOSE DATE AND TIME		
LIST MEDICATIONS TAKEN IN LAST 48HRS NO MEDS		

Header Information

LINE 1

This line of the report displays the date and time the report printed and the page number.

LINE 2

This line of the report displays the description of the department.

LINE 3

This line of the report displays the name of the report.

LINE 4

This line is blank.

Body of Report

TEST CODE

The STAR Lab sendout test code prints in this field. Up to five characters print.

TEST NAME

The STAR Lab sendout test name prints in this field. Up to 32 characters print.

REFERENCE LAB PROMPT

The Reference Lab prompt(s) linked to the selected test code print in this field. Up to 36 characters

print. The prompts print in alphabetic order, with two spaces between the reference lab prompt and the default response columns.

DEFAULT RESPONSE

The default response associated with reference lab prompt prints in this field. Up to 36 characters print. If no default response is defined, the field displays as blank.

At the end of the report, the following message prints:

End of report!

If the report is longer than one page and the information for a test code is divided between two pages, the system prints the following message at the end of the page:

(Continued)

Interface Audit

The Interface Audit enables you to review outgoing and incoming transaction records passed between the STAR Laboratory and Reference Laboratory systems within the audit retention period.

You can select from the following options in the Interface Audit processor:

- Display/print interface audit information.
- Display/print interface audit error information only.
- Display/print transaction record information for add-on order and cancel order requests transmitted from the reference lab.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Interface Audit processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you access the Interface Audit option from the Reference Lab Interface Input Options menu, the system displays the following screen:

General Hospital Interface Audit Processor		Mon Jun 12, 1995 02:21 pm
Interface Audit		
Page:01	Reference Lab Interfaces	
(1) ARUP		
(2) Smith Kline		
Enter choice--		

The following prompt displays:

Enter choice--

Select the Reference Lab Interface to review interface audit information from the options displayed. The table display includes only those reference laboratories for which interface parameters have been defined in the STAR Laboratory Interface Parameters processor. For this example, Smith Kline was selected.

If the interface audit has not been activated for the reference lab selected, the following error message displays:

Interface Audit is currently turned off for REFERENCE LAB!

The interface audit and audit retention fields must be activated and retention period defined for the selected reference lab in the Interface Parameters processor before you can access audit information in this processor.

When you select the reference lab, the following screen displays with the prompt:

Review add-on/cancel orders(O), errors(E) or interface audit(A [A])--

```
General Hospital Interface Audit Processor
Smith Kline                               Mon Jun 12, 1995 02:22 pm
Interface Audit

Review add-on/cancel orders(O), errors(E) or interface audit(A) [A]--
```

To review audit for add-on/cancel information only, enter **O**. This option is used to review add-on and cancellation order requests transmitted from the reference lab.

To review error transaction record information only, enter **E**.

To review all transaction record information in the interface audit, enter **A**.

In a multidepartment environment, the Laboratory Department table displays for selection. Enter the option number corresponding to your laboratory department.

After you select the option to review the interface audit, the following screen displays:

```
General Hospital Interface Audit Processor
Smith Kline                               Mon Jun 12, 1995 02:22 pm
Interface Audit

1 Start Date/Time          2 End Date/Time          3 Hardcopy
->

4 Default Printer
  West Side Closet (Port #55)

Enter start date and time[06/12/95 1625]--
```

Field Explanations

1. START DATE/TIME (DATE/TIME-R)

This field enables you to define the beginning date and time for the data you want to include on the report. Indicate the date and time the system should begin the search for audit information. The following prompt displays:

Enter start date and time [MM/DD/YY 0000]--

Enter the start date and time using one of the standard date entry formats. For more information on date entry, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The default response is the oldest date and time information available, based on the audit retention as defined in the Interface Parameters processor. If you enter an invalid date and time in this field, the system displays the following message:

Error: Invalid start date/time!

2. END DATE/TIME (DATE/TIME-R)

This field enables you to define the end date and time for the data you want to include on the report. Indicate the date and time the system should end the search for audit information. The following prompt displays:

Enter end date [MM/DD/YY 0000]--

Enter the end date using one of the standard date entry formats. For more information on date entry, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The default response is the current date and time. If you enter an invalid date and time in this field, the system displays the following message:

Error: Invalid end date/time!

3. HARDCOPY (1-A-R)

This field determines whether the audit information displays on the screen or on a printed report. The following prompt displays:

Hardcopy? (Y/N) [N]--

Enter **Y** to print the Interface Audit Report. The field displays Yes. Enter **N** or take the default to view the report on your screen. The field displays No.

4. DEFAULT PRINTER (TABLE LOOKUP)

This field displays the description of the printer set up during system installation as the most common printer for the Interface Audit Report. The printer location can be changed by selecting this field's option number.

When you complete all the required fields, the following prompt displays:

Accept this screen? (Y/N) [Y]--

To accept all entries, enter **Y** or press ENTER for the default of Yes. To edit the fields on this screen, enter **N**.

If you entered **N** in the Hardcopy field, the system displays the report on the screen. If you entered **Y** in the Hardcopy field, the system displays the following message:

Printing!

REVIEW ADD-ON/CANCEL ORDER OR ERROR INFORMATION

When you select the option to review add-on/cancel or error transaction record information, the following screen displays:

General Hospital Interface Audit Processor		
Smith Kline	Mon Jun 12, 1995 03:22 pm	
Interface Audit Add-on/Cancel Orders		
1 Start Date	2 End Date	3 Hardcopy
->		
4 Default Printer		
West Side Closet (Port #55)		
Enter start date [03/21/95]--		

Field Explanations

1. START DATE (DATE-R)

This field enables you to define the beginning date for the data you want to include on the report. Indicate the date the system should begin the search for audit information. The following prompt displays:

Enter start date [MM/DD/YY]--

Enter the start date using one of the standard date entry formats. For more information on date entry, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The default response is the oldest date information available, based on the audit retention as defined in the Interface Parameters processor. If you enter a date in this field greater than the date in the End Date field, the system displays the following message:

Error: Invalid start date!

2. END DATE (DATE-R)

This field enables you to define the end date for the data you want to include on the report. Indicate the date the system should end the search for audit information. The following prompt displays:

Enter end date [MM/DD/YY]--

Enter the end date using one of the standard date entry formats. For more information on date entry, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The default response is the current date. If you enter an invalid date in this field, the system displays the following message:

Error: Invalid end date!

3. HARDCOPY (1-A-R)

This field determines whether the audit information displays on the screen or on a printed report. The following prompt displays:

Hardcopy? (Y/N) [N]--

Enter **Y** to print the Interface Audit Report. The field displays Yes. Enter **N** or take the default to view the report on your screen. The field displays No.

4. DEFAULT PRINTER (TABLE LOOKUP)

This field displays the description of the printer set up during system installation as the most common printer for the Interface Audit Report. The printer location can be changed by selecting this field's option number.

When you complete all the required fields, the following prompt displays:

Accept this screen? (Y/N) [Y]--

To accept all entries, enter **Y** or press ENTER for the default of Yes. To edit the fields on this screen, enter **N**.

If you entered **N** in the Hardcopy field, the system displays the report on the screen. If you entered **Y** in the Hardcopy field, the system displays the following message:

Printing!

Examples of the various Interface Audit Reports display on the following pages.

Figure 2.4 Interface Audit Add-on/Cancel Orders (ALGRLGR0)

```

DEPARTMENT NAME Interface Audit Processor
REFERENCE LABORATORY                               Mon Jun 12, 1995 09:53 am
Interface Audit Add-on/Cancel Orders

**CHROMOSOME, BONE MARROW for Accn # 12345, cancel order received!
  Complete order cancel on STAR Lab.  Manual credit may need to be submitted.
  Name BROWN,ROBERT Acct# A9506120163  Test 7505 Date 06/12/95

**LYME DISEASE, SERUM for Accn # 12350, cancel order received!
  Complete order cancel on STAR Lab.  Manual credit may need to be submitted.
  Name SMITH,JOHN Acct# A9506120730  Test 7510 Date 06/12/95

**THYROGLOBULIN ANTIBODY for Accn # 12355, cancel order received!
  Complete order cancel on STAR Lab.  Manual credit may need to be submitted.
  Name JONES,JAMES SESSION 15  Acct# A9506120007  Test 7520 Date 06/12/95

**ALPHA-1-FETOPROTIEN for Accn # 12360, add-on order processed!
  Manual charge may need to be submitted.
  Name WHITE,MARYANNE Acct# A9506120003  Test 7502 Date 06/12/95

**ALPHA-1-FETOPROTIEN for Accn # 12365, add-on order processed!
  Manual charge may need to be submitted.
  Name JOHNSON,SUSAN Acct# A9506120003  Test 6020 Date 06/12/95

```

Figure 2.5 Interface Audit Errors (ALGRLGR0)

```

DEPARTMENT NAME Interface Audit Processor
REFERENCE LABORATORY                               Tues Jun 13, 1995 09:53 am
Interface Audit Errors

(06/12/95 1612) Error 15 Test already ordered for accession!
  (Add-on) Name WHITE,MARYANNE Specimen BLOOD
  Acct# A9506120003 Facility A Accn# 12360 Test 7502 Order Dept LAB

(06/12/95 1612) Error 6 Component cross reference missing!
  (ID 1) P|1|A9506120003|852654561|852654561|WHITE,MARYANNE||19711212|F|||||
  OBR|1|12360|9517100014|80108;AFP/hCG/ue3 (MATERNAL SERUM)|R|19950619164300|19

(06/12/95 1612) Error 3 Test code cross reference missing!
  (ID 1) P|1|A9517000003|852654561|852654561|WHITE,MARYANNE||19711212|F|||||
  OBR|1|12360|9517100014|65120;PARVOVIRUS B19 ABS, IgG/IgM|R|19950619164300|19

(06/13/95 0217) Error 9 Dialing was not successful - Will retry!
  (ID 1)

```

Figure 2.6 Interface Audit - ARUP Example (ALGRLGR0)

```

DEPARTMENT NAME Interface Audit Processor
ARUP                                     Mon Jun 12, 1995 09:53 am
Interface Audit

R/ SND 09/04/95 1412

S/ RTS

R/ RTS

S/ NTS

R/ H|^~\&|^ARUP|ARUP|500 CHIPETA WAY^^SLC^UTAH^84108|UTA|(801) 583-2787||1252||T
|A.2|19950904102100
S/ SND

R/ P|1|B9523900126|437744384|437744384|RICHARDSON^LAWRENCE||19470807|M|||||||
||||
R/ OBR|1|2320920|9524303041|80436^METANEPHRINES, FRACT|R|19950830220700|19950830
220700|||||19950901162700|||||199509041021|^800|F|||
R/ OBX|1|NM|97111^TIME||24|hr^^L|||A~S|F|

R/ OBX|2|NM|97110^TOTAL VOLUME||2050|mL^^L|||A~S|F|

R/ OBX|3|NM|99001^TIME||24|hr^^L|||A~S|F|

R/ OBX|4|NM|70169^TOTAL URINARY VOLUME||2050|mL^^L|||A~S|F|

R/ OBX|5|NM|80224^METANEPHRINE, URINE-ug/day||437|ug/d^^L|30-350|H||A~S|F|

R/ OBX|6|NM|80223^NORMETANEPHRINE, URINE-ug/day||541|ug/d^^L|50-650|N||A~S|F|

R/ OBX|7|ST|80228^INTERPRETATION||SEE NOTE|||A~S|F|

R/ C|1|L|Slight elevations of metanephrene or normetanephrene. Slight
R/ C|2|L|elevations are often associated with conditions such as essential
R/ C|3|L|hypertension, emotional and physical stress, or improper specimen
R/ C|4|L|collection. Significant neuroendocrine tumors are usually
R/ C|5|L|associated with concentrations several times higher than upper
R/ C|6|L|reference ranges.

R/ OBX|8|NM|20207^CREATININE, URINE - mg/dL||76|mg/dL^^L|||A~S|F|

R/ OBX|9|NM|20208^CREATININE, URINE - mg/day||1558|mg/d^^L|800-1800|N||A~S|F|

R/ E|1|1194|87

R/ L|1|1|43 |

R/ NTS

S/ SND

S/ X

```

Figure 2.7 Interface Audit - Smith Kline Example (ALGRLGR0)

```

                                DEPARTMENT NAME Interface Audit Processor
Smith Kline                                Tues Jun 13, 1995 09:53 am
Interface Audit

S/ H|;'&|||CIHBO86538|||CHI|P|2|199509020506

S/ E|129|3|068

R/ ACK 09/02/95 0506

R/ E|2|3|73

S/ L

S/ E|129|1|076

R/ H|;'&|||CHI|||CIHBO86538|R|P|2|199509020514

R/ E|1|46|22

S/ ACK

S/ E|129|3|052

R/ P|1|A9524400393|608984H|325-34-4534|GOLEMBIEWSKI;VIRGINIA;A|19410706|F|||L
EIBACH;STEVEN
R/ OBR|1|410732|608984H|5819RSL=;CANCER ANTIGEN 15-3 |R||||N|||||||1995090
20009||I|

```

Header Information

LINE 1

The description of the department replaces DEPARTMENT NAME in the first line of the report.

LINE 2

The description of the reference laboratory replaces REFERENCE LABORATORY in the second line of the report.

LINE 3

This line of the report displays the interface audit option selected.

Body of Report

INTERFACE AUDIT ADD-ON/CANCEL ORDERS

This report displays the add-on and cancellation order requests transmitted from the reference lab for the date range selected. Three lines of text detailing specific patient/test information display for each add-on/cancel order request. This report is used by laboratory personnel to identify add-on/cancel order requests requiring manual charge/credit processing to be performed on STAR Laboratory.

INTERFACE AUDIT ERRORS

This report displays the error transaction record information for the date range selected. This report is used as a tool to identify and resolve interface problems. By selecting the Interface Audit (A) option for the date/time displayed for a specific error message, you can review all the transaction record information for the date/time range selected.

INTERFACE AUDIT

This report displays all incoming and outgoing transaction record information for the date/time range selected. An S/ preceding a transaction record indicates a message sent from STAR Laboratory to the designated reference lab. An R/ preceding a transaction record indicates a message received by STAR Laboratory from the designated reference lab.

TROUBLESHOOTING THE INTERFACE

The following message: Error 9 Dialing was not successful - *Will retry!* displays when STAR Laboratory system is unable to establish communications with the designated reference lab. Once this message displays, the system waits five (5) minutes and then automatically resets the modem and tries again to establish communications. This scenario occurs at 5-minute intervals until a successful communication link has been established.

When monitoring the interface error audit, if the Error 9 Dialing was not successful - *Will retry!* error message has displayed repeatedly for more than 30 minutes, interface communications cannot be established. You should complete the following procedure:

1. Stop the Interface.
2. Restart the Interface.
3. Perform Manual Dial to reference lab.
4. Access Reference Lab Interface Audit and review audit transactions to verify that communications have been established and transactions are being transmitted between the STAR Laboratory and reference lab systems, using the Reference Lab Interface.

NOTE: If interface communications still have not been established after following this procedure, contact the Information Systems department at your institution for additional assistance.

The following table is a listing of the system generated interface messages:

Error #	Message Description
1	Checksum error - Will retry
2	Length error - Will retry
3	Test code cross reference missing
4	Patient Account not found
5	Accession record not found
6	Component cross reference missing
7	Added test from Send Out Lab
8	Report from Send Out Lab
9	Dialing was not successful - Will retry
10	ASTM Interface not communicating - Trying to establish communications
11	Communication Port in use - Try again later
12	ASTM Reference Lab Interface is starting
13	ASTM Reference Lab Interface is stopping
14	Test code cross reference missing
15	Test already ordered for accession
16	Test is not a General test type
17	Invalid specimen type
18	Invalid ordering dept for accession-Test not ordered
19	Test not setup for ordering priority
20	Invalid test code
21	Cannot add tests on this Patient/Account
22	No send Out code for test information being sent
23	Results cannot file - Test not ordered for accession

TRANSACTION RECORD LAYOUT

Each set of records is made up of multiple segments. Each set is sent and received as a group, and one acknowledgement (ACK) or negative acknowledgement (NACK) is sent with the entire set of segments.

Order Transaction

The following information is provided for each Order transaction passed from STAR Laboratory to the Reference Laboratory. Each set of orders has a P, patient information segment, and an OBR, test order information segment, preceding one or more C, comment segments followed by the E, error segment. If multiple test orders are associated with a single accession, multiple OBR segments are sent under one patient record.

The structure of the patient segment is as follows:

P::External Account Number::Social Security Number:Patient
Name::Birthdate:Sex:::Ordering Doctor

The structure of the order segment is as follows:

OBR::STAR Lab Accession Number::Ref Lab Test Code:Order Priority:Requested
Date & Time::
Collection Volume/Weight:: Collection Time in Hours::'N' for new , 'A'
or Add-on, 'G' for general order :::Ordering Doctor

During STAR Lab test processing, order and/or accession comments may be associated with the test order. In addition, specific patient or specimen information may be entered in response to reference lab prompts linked to the test code. All this information is contained in the comment segment. The structure of the comment segment is as follows:

C:::Comment

A:Additional Comment Lines as needed.

The structure of the error segment is as follows:

E:Sequence Number:Length:Length Check

The length and length check include all characters from the P, in the patient segment, through the last character of the comment segment. Each segment ends in a carriage return, which is not included in either the length or length check.

Result Transaction

The following information is provided for each Result transaction passed from the Reference Laboratory to STAR Laboratory. The test results are sent in individual OBX result segments. Each set of results has a P, patient information segment, and an OBR, order information segment, preceding one or more OBX result segments. If multiple test results are associated with a single accession, multiple OBX segments would be sent under one patient record.

The structure of the patient segment is as follows:

P::External Account Number::Social Security Number:Patient
Name::Birthdate:Sex:::Ordering Doctor

The structure of the order segment is as follows:

OBR::STAR Lab Accession Number::Ref Lab Test Code:Order Priority:Requested
Date & Time::
Collection Volume/Weight::'N' for new, 'A' for Add-on or 'G' for
general order:::Ordering Doctor

The structure of the result segment is as follows:

OBX:::Results::Normal Range:Abnormal Flag

The structure of the comment segment is as follows:

C:::Comment

A:Additional Comment Lines as needed.

The structure of the error segment is as follows:

E:Sequence Number:Length:Length Check

The length and the length check include all characters from the "P" in the patient segment through the last character of the comment segment. Each segment ends in a carriage return, but this is not included in either the length or length check.

Start/Stop Ref Lab Interface

The Reference Lab Interface option enables you to activate or inactivate the Reference Lab Interface.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Start/Stop Ref Lab Interface option. If this parameter has not been defined, the following error message displays:

Reference Laboratory Interface Not Active!

When you access the Start/Stop Ref Lab Interface option from the Reference Lab Interface Input Options menu, the following screen displays:

```
General Hospital Start/Stop Ref Lab Interface Processor
Start/Stop Ref Lab Interface                      Mon Jun 12, 1995 05:00 pm

Page:01                      Reference Lab Interfaces
( 1) ARUP
( 2) Smith Kline

Enter choice--
```

The following prompt displays:

Enter choice--

Select the Reference Lab Interface to be activated/inactivated from the options displayed. The table display includes only those reference laboratories for which interface parameters have been defined in the STAR Laboratory Interface Parameters processor.

When you select a reference lab, the system displays the following screen. For this example, Smith Kline was selected.

```
General Hospital Start/Stop Ref Lab Interface Processor
Start/Stop Ref Lab Interface                      Mon Jun 12, 1995 05:03 pm
Smith Kline

Reference Lab Interface Not Active!

Start the interface? (Y/N)--
```

Depending on the current state of the interface, the system prompts you to either start or stop the interface. If the current state of the interface is not active, the following system message and prompt display:

Reference Laboratory Interface Not Active!

Start the interface? (Y/N)--

Enter **N** to return to the Reference Lab Interface Input Options menu. Enter **Y** to start the interface. The following prompt displays, requiring you to confirm your response before the interface is started:

Are you SURE you want to START the interface? (Y/N)--

Enter **N** to return to the Reference Lab Interface Input Options menu. Enter **Y** to confirm the start. The following message displays:

Reference Lab Interface STARTED for REFERENCE LAB DESCRIPTION!

The following message also displays in the console log:

**L Reference Lab Interface to REFERENCE LAB DESCRIPTION STARTED START DAY
DATE TIME IN ID #.*

NOTE: The interface must also be started on the Reference Laboratory system to establish communications.

If the current state of the interface is active, the following system message and prompt display:

Reference Laboratory Interface Active!

Stop the interface? (Y/N)--

Enter **N** to return to the Reference Lab Interface Input Options menu. Enter **Y** to stop the interface. The following prompt displays, requiring you to confirm your response before the interface is stopped.

Are you SURE you want to STOP the interface? (Y/N)--

Enter **N** to return to the Reference Lab Interface Input Options menu. Enter **Y** to confirm the stop. The following message displays:

Reference Lab Interface STOPPED for REFERENCE LAB DESCRIPTION!

The following message also displays in the console log:

**L Reference Lab Interface to REFERENCE LAB DESCRIPTION STOPPED STOP DAY
DATE TIME IN ID #.*

NOTE: If the Reference Interface is down, reporting of reference lab results should follow documented manual downtime procedures, as determined by your institution. Results for tests processed as sendout-interface tests should not be entered manually on STAR Laboratory. Results are queued on the reference lab system while the interface is down.

When the system is reactivated, a process for automatically restarting each active Reference Lab Interface takes place. After the Reference Lab Interface is activated, the processes for transmission of orders from STAR Laboratory to the designated reference lab and results from the reference lab to STAR Laboratory resume.

Manual Dial Reference Lab

The Manual Dial Reference Lab option enables you to establish communication with the reference lab so that queued test results from the reference lab can be transmitted to STAR Laboratory. This function is part of an auto-dial process to connect STAR Laboratory with the designated reference lab system.

In Maintenance - Flags/Utilities, the Reference Lab Interface field of the General Department processor must be set to Yes to access the Manual Dial Reference Lab processor option. If this parameter has not been defined, the following error message displays:

ASTM Reference Lab Interface NOT activated for this department!

When you select the Manual Dial Reference Lab option from the Reference Lab Interface Input Options menu, the following screen displays:

```
General Hospital Manual Dial Reference Lab Processor
Manual Dial Reference Lab                      Mon Jun 12, 1995 03:21 pm

Page:01                      Reference Lab Interfaces
( 1) ARUP
( 2) Smith Kline

Enter choice--
```

The following prompt displays:

Enter choice--

Select the Reference Lab Interface from the options displayed. The table display includes only those reference laboratories for which interface parameters have been defined in the STAR Laboratory Interface Parameters processor.

If the current state of the interface is not active, the system displays the following message:

Reference Lab Interface Not Active!

To activate the interface, access the Start/Stop Ref Lab Interface processor. Then verify that the interface is active at the reference lab. When you select a reference lab, the following screen displays. For this example, Smith Kline was selected.

General Hospital Manual Dial Reference Lab Processor
Manual Dial Reference Lab Mon Jun 12, 1995 03:21 pm
Smith Kline

Reference Lab Interface Active!

Manually dial Smith Kline Reference Lab? (Y/N)--

If the current state of the interface is active, the following prompt displays:

Reference Lab Interface Active!

Manually dial REFERENCE LAB DESCRIPTION Reference Lab? (Y/N)--

Enter **N** to return to the Reference Lab Interface Input Options menu. Enter **Y** to complete the process. The system displays the following prompt message:

Dialing!

If the reference lab system contains queued results, these results will be transmitted to STAR Laboratory.

MAINTENANCE FUNCTIONS

The Laboratory Maintenance Functions menu provides you with functions to support the Reference Lab Interface through the following functions:

- Setting flags
- Setting parameters for labels
- Defining report information through Spooler Report Definition
- Defining printer information through Spooler Printer Definition

These functions can be accessed through the Laboratory Maintenance Functions menu.

```

General Hospital Maintenance Functions Processor
                                Tue Sep 18, 2001 11:14 am

Page:01                      Laboratory Maintenance Functions
( 1) Employee Data              (18) Maintenance - Report/Printer/Fax
( 2) Archiving Parameters       (19) Maintenance - Sales Commission
( 3) Collection Walk Order      (20) Maintenance - User Preferences
( 4) HELP Text Edit             (21) Maintenance - Workload
( 5) Maintenance - Adv Bld Bank Int (22) Maintenance Types
( 6) Maintenance - Advanced Micro (23) Maintenance Types Listing
( 7) Maintenance - Anatomic Path (24) Table Data - Department
( 8) Maintenance - Barcode      (25) Table Data - General
( 9) Maintenance - Contract Billing (26) Table Exclusions - General
(10) Maintenance - Equip/Instrument (27) Table Types - Department
(11) Maintenance - Flags/Utilities (28) Table Types - General
(12) Maintenance - General Test  (29) Unlock accession number
(13) Maintenance - Interface     (30) Utility - Incomplete work file
(14) Maintenance - Lookup Grps/Chk5 (31) Utility - Recancel Test
(15) Maintenance - PC Downloading
(16) Maintenance - QC
(17) Maintenance - Recall Mgmt

Enter choice--

```

For additional information on these functions, refer to the appropriate chapters in the *Maintenance Functions Volumes I and II* of the *STAR Laboratory Reference Guide*.

Maintenance - Flags/Utilities

Select the Maintenance - Flags/Utilities menu from the Laboratory Maintenance Functions menu. The following screen displays:

```

General Hospital Maintenance Functions Processor
Community Lab                               Mon Jun 12, 1995 06:44 pm

Laboratory Utility Maintenance Functions      Page:01
( 1) Flags - Barcode                        (18) Z - SIM Synch Up
( 2) Flags - Cardfile
( 3) Flags - Collection Batch
( 4) Flags - General Department
( 5) Flags - Labels
( 6) Flags - Order/Accn
( 7) Flags - Patient Inq/Primary
( 8) Flags - Professional Billing
( 9) Flags - Report Queue Flag
(10) Flags - Specimen Rejection
(11) Flags - System Flags
(12) Flags - Word Processing
(13) Maintenance Types List - Utilities
(14) System Manager
(15) System Message
(16) Z - Incomplete Priority Prt Order
(17) Z - Letter Maintenance

Enter choice--

```

FLAGS - GENERAL DEPARTMENT

Select Flags - General Department from the Maintenance - Flags/Utilities menu. The following screen displays:

```

General Hospital Maintenance - Flags/Utilities Processor
Laboratory                               Tue Sep 18, 2001 11:22 am

Department Flags for Laboratory
1 Lab LIVE                               2 Advanced Micro Live
No                                         Yes
3 Printer Matrix                         4 Table Display of Sections
Yes                                       No
5 Adv Bld Bank Interface 6 Reference Lab Interface 7 Canc Uncoll Midnight
Hemocare                               Yes       Yes
8 Charge Scheme                       9 Misc Charges to HIS    10 Default Charge Location
Accession                             Yes
11 Duplicate/Conflict Checking          12 Dup/Conf Collection Retention
Yes                                     2 day
13 Clinical Questions Active           14 Report Clinical Questions
Yes                                     No
15 Panic Notification
No

Enter field number or '/' starting field number--

```

Field Explanations

6. REFERENCE LAB INTERFACE (1-A-C)

This field indicates whether the Reference Lab Interface is active for the department selected. The following prompt displays:

Use Reference Lab Interface? (Y/N)--

The Reference Lab Interface field on the Systems Options screen of the Maintenance - Flags/Utilities processor must be set to Yes for you to set this field to Yes. Otherwise, you cannot edit this field.

To activate the Reference Lab Interface, enter **Y**. Enter **N** if you do not want to use this option. There is no default response. When you complete all the required fields, the acceptance prompt displays.

FLAGS LABELS

Select Flags - General Department from the Maintenance - Flags/Utilities menu. The following screen displays:

General Hospital Maintenance - Flags/Utilities Processor			
Community Lab		Mon Jun 12, 1995 03:25 pm	
Laboratory			
Collection			
1 Coll Label Print	2 # Master Labels	3 Cutout # Type	4 Use Ptr Matrix
Single Column	1	Collection #	Yes
5 Coll Labels at Ord/Accn	6 Coll Labels # Type	7 Nurse-Collect Print	
No	Unit #	No	
Accession			
8 Accn Label Time	9 # Master Accn Labels	10 Accn Isolation Label	
Accession	1	Yes	
Other			
11 Spec Reject Labels	12 Call STAT Labels	13 Consol Labels	14 Prompt Labels
Yes	No	Yes	Accessioning
Interdepartment/Sendout			
15 Intdpt. Accn Label	16 Transfer Labels at Accn	17 Sendout Labels at Accn	
At Check-in	No	No	
Enter field number or '/' starting field number--			

Field Explanations

16. TRANSFER LABEL AT ACCN (1-A-R)

This field indicates whether to print interdepartment transfer labels at accessioning. These labels contain the same information as Master accession labels, plus the name of the performing department. The labels include special handling instructions. Transfer labels can be affixed to the container for shipment or used internally as an audit.

When you access this field, the following prompt displays:

Print interdepartment transfer labels at accessioning? (Y/N) [N]--

Enter **Y** to print Interdepartment labels at accessioning. To suppress printing, enter **N**.

17. SENDOUT LABEL AT ACCN (1-A-R)

This field indicates whether to print sendout labels at accessioning. These labels contain the same information as Master accession labels, plus the name of the sendout laboratory. The labels include special handling instructions. Sendout labels can be affixed to the container for shipment or used internally as an audit.

When you access this field, the following prompt displays:

Print sendout labels at accessioning? (Y/N) [N]--

Enter **Y** to print Sendout labels at accessioning. To suppress printing, enter **N**. When you complete all the required fields, the system displays the following prompt:

Accept this screen? (Y/N) [Y]--

Accept the screen by entering **Y** or pressing ENTER. Enter **N** to edit.

Table Data - General

Select Table Data - General from the Laboratory Maintenance Functions menu. The following screen displays:

```

General Hospital Administration Maintenance Functions Processor
                                Tue Sep 18, 2001 11:24 am

Page:01                      General Table Data
( 1) Blood Types/Rh          (18) Priorities, Radiology
( 2) Builder Module Names    (19) Range Headings
( 3) Comment Table           (20) Requisition Forms
( 4) Container Types (LAB)    (21) Result Unit codes
( 5) Development Module Names (22) Send Out Laboratories
( 6) Dup/Conf Override Reason (23) Special Instructions
( 7) Financial Classes        (24) Specimens
( 8) ICD Diagnosis Pointer Table (25) SQC Constituents (CAP)
( 9) Lab Prof Billing Procedures (26) SQC General Method
(10) Non-lab Collector Codes  (27) SQC Specific Method
(11) Order Cancellation Reason (28) Storage Requirement Types
(12) Order Priorities (LAB)   (29) Workload Categories
(13) Order Priorities (LB2)   (30) Workload Collection types
(14) Order Priorities (LB3)   (31) Workload Items for Count
(15) Order Priorities (LL1)   (32) Workload Method Types
(16) Priorities, Cardiology   (33) Workload Procedures
(17) Priorities, Central Supply

Enter choice--

```

Select Storage Requirement Types. Certain specimens require special storage handling during transport to maintain their integrity before test processing. The Storage Requirement Types Table is used by all laboratory departments to define storage requirement options.

This table displays in the Interdepartment Referral/Sendout Labels processor when the system is selecting the storage requirement for interdepartment, sendout, or sendout-

interface tests. This information is used in the Travel List report, if the report is sorted by storage requirement.

The system provides the following list of storage requirement types. You can add additional storage requirement types as needed.

- Room Temperature
- Frozen
- Refrigerated

NOTE: The system-defined storage requirement types cannot be edited or deleted.

After you select the Storage Requirement Types option, the following prompt displays:

Enter storage requirement types code, automatic add(A) or '-' for table--

Indicate the code by using one of the table entry techniques described in the Information Entry Techniques chapter in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The code is a two-numeric required field. You can also enter **A** to have the system automatically assign the code.

When you enter the code, the system displays the following screen:

General Hospital Maintenance Functions Processor	
Mon Jun 12, 1995 03:27 pm	
Storage Requirement Types	
(1)Code	: 1
(2)Description	: Room Temperature
(3)Edit by	:
(4)Edit date	:
Enter field number or '/' starting field number--	

Field Explanations

1. CODE (DISPLAY ONLY)

This is an information field. This field contains the entered or system-assigned storage requirement type code.

2. DESCRIPTION (20-AN-R)

This field contains the description of the storage requirement type. The description can be alphanumeric and up to 20 characters. The following prompt displays:

Enter new description--

Enter the description for this storage requirement type.

3. EDIT BY (DISPLAY ONLY)

This field displays the name of the person who last edited this screen.

4. EDIT DATE (DISPLAY ONLY)

This field displays the date and time of the last edit to this screen.

When you complete all the required fields, the following prompt displays:

Accept this screen? (Y/N) [Y]--

Accept the screen by entering **Y** or accepting the default. Enter **N** to edit. If you enter **Y**, the system displays the following message:

Filed!

When an existing storage requirement code is accessed, the Edit screen displays. If you press ENTER without making any changes, the Delete prompt displays:

Delete? (N)--

To delete, enter **Y**. The following prompt displays:

Enter delete(D) from file or file(F) as deleted [F]--

To completely delete the code, enter **D**. To file code as deleted (inactivate), enter **F** or accept the default.

The following message displays:

<< Searching test code file for use!! >>

NOTE: If your institution is multidepartment, the search includes tests in all departments.

You cannot delete a Storage Requirement Type currently assigned to a test code. The following error message displays:

WARNING! - Storage Requirement Type code XX in use!

You cannot delete the system-defined Storage Requirement Types (Room Temperature, Refrigerated or Frozen). The following error message displays:

WARNING! - Storage Requirement Type code XX is system defined value!

If you enter **D**, the system displays the *Deleted!* message and the following prompt redisplay:

Enter storage requirement types code, automatic add(A) or '-' for table--

If you enter **F**, the system displays the *Filed as deleted!* message and the following prompt redisplay:

Enter storage requirement types code, automatic add(A) or '-' for table--

To reactivate a code previously filed as deleted, enter the old code at the following prompt:

Enter storage requirement types code, automatic add(A) or '-' for table--

When you enter a Filed as Deleted code, the system responds:

Enter delete(D) from file or activate(A)--

To completely delete the code, enter **D**. To reactivate this code, enter **A**. The following message displays:

Activated!

To print a list of all files, press ENTER at the prompt:

Enter storage requirement types code, automatic add(A) or '-' for table--

The following prompt displays:

Do you want a printed list? (Y/N)--

Enter **N** to exit the processor. Enter **Y** to print a list. The following prompt displays:

Enter code(C) sequence or alphabetic(A) [A]--

To sort by numeric code, enter **C**. To sort alphabetically by description, enter **A** or accept the default. When you select the sort method, the following prompt displays:

Include entries filed as deleted? (Y/N)--

To include all entries, enter **Y**. To list only active files, enter **N**. If your system is multidepartment, you must select the department for which you are printing the list. The next screen displays the default and alternate printers available for this report.

Select a printer or accept the default. When you select a printer, the following message displays:

*Compiling & Printing!***Report/Printer/Fax**

The Spooler Report/Printer Definition Utilities in STAR Laboratory are used to set up the default and alternate printers for each report defined in the system. To define printer routing, you must first define the report group codes, using the Spooler Report Definition processor.

When you select Report/Printer/Fax from the Laboratory Maintenance Functions menu, the following screen displays:

```

                                General Hospital Maintenance Functions Processor
                                Tue Jul 23, 2002 03:37 pm
                                Laboratory Report Maintenance Functions          Page:01
( 1) Cum (Horiz) Definition
( 2) Cum (Vert) Definition
( 3) Data Retention Parameters
( 4) Default Primary Report Printer
( 5) Fax Audit
( 6) Fax Parameters
( 7) Long Report Parameters
( 8) Maintenance Types - Reports
( 9) Maintenance Types List - Reports
(10) Mapped Accession Utilities
(11) Primary Report Routing
(12) Printer Matrix
(13) Spooler Management
(14) Spooler Printer Definition
(15) Spooler Report Definition
(16) Summary Report Definition
(17) Z - Matrix Transfer

Enter choice--
```

When you select Spooler Report Definition from the Laboratory Report Maintenance Functions menu, the system displays a list of available departments.

After you select a department, the system displays the following screen. The following two screens contain a list of all currently defined report groups.

General Hospital Maintenance Functions Processor

Tue Jul 23, 2002 03:41 pm

Defined reports for Laboratory

(1) LAL-ACCESSION LABEL	(18) LCL-COLLECTION LABEL
(2) LBF-ADVANCED BENEFICIARY (CMS)	(19) LCU-CUMS REPORT
(3) LBN-ADVANCED BENEFICIARY NOTI	(20) LRP-DRAFT LONG REPORT
(4) LAR-ARCHIVE PATIENT LISTING	(21) LGR-GENERAL REPORTS
(5) LBA-BARCODE ACCESSION LABEL	(22) LHT-HISTOTECH PROCESS LABELS
(6) LBM-BARCODE ADV MICRO LABELS	(23) LHR-HISTOTECH PROCESS REPORTS
(7) LBC-BARCODE COLLECTION LABEL	(24) LIN-INTERFACE PRINTERS
(8) LBG-BARCODE GENERAL LABELS	(25) LDN-LAB DOWNLOAD REPORTS
(9) LBH-BARCODE HISTOTECH LABELS	(26) LNP-LAB NETWORK PRINTER
(10) LBI-BARCODE INSTRUMENT LABELS	(27) LSP-Long Report
(11) LBO-BARCODE SENDOUT LABELS	(28) LMI-MICRO INTERNAL LOG
(12) LBB-BARCODE SPEC REJECT LABEL	(29) LMR-MICRO REPORTS
(13) LBB-BARCODE SPECIMEN REJECTIO	(30) LMM-MICRO WORK-UP LABELS
(14) LBE-BARCODE SPOOLER ERRORS	(31) LPR-PRIMARY REPORT
(15) LSL-CALL STAT LABELS	(32) LRC-RECALL REMINDER LETTERS
(16) LCN-CENSUS REPORTS	(33) LRM-REMOTE PRINT SUMMARY REPO
(17) LCI-CLIENT REPORT	(34) LRE-REMOTE PRINTING ERRORS

Enter option to edit or Add(A)--

next pg(/ or PG DN) Search(TAB)

General Hospital Maintenance Functions Processor

Tue Jul 23, 2002 03:41 pm

Defined reports for Laboratory

(1) LSO-SENDOUT LABELS
(2) LBS-SPECIMEN REJECTION LABELS
(3) LSR-SUMMARY REPORTS
(4) LTR-TRAVEL LIST REPORT

Enter option to edit or Add(A)--

previous pg(/P or PG UP)

When you select LTR - Travel List Report, the following screen displays:

General Hospital Maintenance - Report/Printer/Fax Processor				
Tue Jul 23, 2002 03:48 pm				
1 Code	2 Description			
LTR	TRAVEL LIST REPORT			
3 Active	4 Print Type	5 Retention Period		
Active	Demand	2		
6 Restart Method	7 Reprint Security			
Demand	0			
8 Code	Report Type	Description	Code	Report Type Description
CHM	-	CHEMISTRY TRAVEL LIST	LTR	- GENERAL TRAVEL LIST
SEN	-	SENDOUT TRAVEL LIST		

Enter field number or '/' starting field number--

For a detailed explanation of the process of defining report information refer to Chapter 11: Spooler/Printer Matrix in the *Maintenance Functions Volume II* of the *STAR Laboratory Reference Guide*.

SPOOLER PRINTER DEFINITION

The next step in defining the printer routing is to set up the destination printers, using the Spooler Printer Definition processor. When you select Spooler Printer Definition from the Laboratory Report Maintenance Functions menu, the system displays a list of available departments. After you select a department, the system displays the following screen.

This screen contains a list of all currently defined report groups.

General Hospital Maintenance Functions Processor

Wed Aug 14, 2002 10:11 am

Defined reports for Laboratory

- | | |
|-------------------------------------|------------------------------------|
| (1) LAL-ACCESSION LABEL | (18) LCL-COLLECTION LABEL |
| (2) LBF-ADVANCED BENEFICIARY (CMS) | (19) LCU-CUMS REPORT |
| (3) LBN-ADVANCED BENEFICIARY NOTI | (20) LRP-DRAFT LONG REPORT |
| (4) LAR-ARCHIVE PATIENT LISTING | (21) LGR-GENERAL REPORTS |
| (5) LBA-BARCODE ACCESSION LABEL | (22) LHT-HISTOTECH PROCESS LABELS |
| (6) LBM-BARCODE ADV MICRO LABELS | (23) LHR-HISTOTECH PROCESS REPORTS |
| (7) LBC-BARCODE COLLECTION LABEL | (24) LIN-INTERFACE PRINTERS |
| (8) LBG-BARCODE GENERAL LABELS | (25) LDN-LAB DOWNLOAD REPORTS |
| (9) LBH-BARCODE HISTOTECH LABELS | (26) LNP-LAB NETWORK PRINTER |
| (10) LBI-BARCODE INSTRUMENT LABELS | (27) LSP-Long Report |
| (11) LBO-BARCODE SENDOUT LABELS | (28) LMI-MICRO INTERNAL LOG |
| (12) LBB-BARCODE SPEC REJECT LABEL | (29) LMR-MICRO REPORTS |
| (13) LBB-BARCODE SPECIMEN REJECTIO | (30) LMM-MICRO WORK-UP LABELS |
| (14) LBE-BARCODE SPOOLER ERRORS | (31) LPR-PRIMARY REPORT |
| (15) LSL-CALL STAT LABELS | (32) LRC-RECALL REMINDER LETTERS |
| (16) LCN-CENSUS REPORTS | (33) LRM-REMOTE PRINT SUMMARY REPO |
| (17) LCI-CLIENT REPORT | (34) LRE-REMOTE PRINTING ERRORS |

Enter choice--

next pg(/ or PG DN) Search(TAB)

General Hospital Administration Maintenance Functions Processor

- (1) LBS-SPECIMEN REJECTION LABELS
- (2) LSR-SUMMARY REPORTS
- (3) LTR-TRAVEL LIST REPORT

Enter option to edit or Add(A)--

previous pg(/P or PG UP)

When you select LTR - Travel List Report, the following screen displays:

General Hospital Maintenance Functions Processor		
LTR - TRAVEL LIST REPORT		Mon Jun 12, 1995 10:45 am
1 Code	2 Report type	
ALTRLTR	DEFAULT TRAVEL LIST	
3 Port #	Location	Default Printer
122	3rd Floor Middle	ALTRLTR0
4 Port #	Location	Default Printer
246	301-3 Printer Area	ALTRLTR1
116	3rd Floor Middle	ALTRLTR2
55	West Side Closet	ALTRLTR3

Enter field number or '/' starting field number--

For a detailed explanation of the process of defining printer information, refer to Chapter 11: Spooler/Printer Matrix in the *Maintenance Functions Volume II* of the *STAR Laboratory Reference Guide*.

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INTRODUCTION

This chapter describes how STAR Laboratory uses the STAR Reference Lab Interface to provide a network link between the STAR Laboratory and the reference lab systems. It describes how sendout-interface tests are processed.

NOTE: The STAR Reference Laboratory Interface is referred to as the Reference Lab Interface throughout this document.

A *sendout-interface* test is defined as a test performed at a user-designated reference laboratory for which test order and result information is transmitted electronically between STAR Laboratory and the reference laboratory, using the STAR Laboratory Reference Lab Interface.

On the STAR Laboratory system, a sendout-interface test is added to the appropriate sendout lab queue, after accessioning. At regular intervals, a courier from the reference lab picks up the accumulated specimens. Tests are released from the sendout queue in one of three ways: by sending every test in the queue, by test code, or by individual accession.

As a result of releasing test orders from the sendout queue, orders are transmitted from STAR Laboratory to the reference laboratory system through the Reference Lab Interface. Tests that are released are included on a Travel List Report which accompanies the specimens to the reference lab. After the order transmissions are completed, queued test results from the reference lab are transmitted to STAR Laboratory as a part of the same process.

The reference lab system requires that orders sent from STAR Laboratory include the reference lab test code as part of the order information. Test results transmitted from the reference lab to the STAR Laboratory are cross-referenced by test code and result component code. A cross-reference file must be built on STAR Laboratory to define the relationship between STAR Laboratory and the reference lab test and result component codes.

Two options exist for maintaining communication between the two systems: a dedicated leased line or an auto-dial process. Using a leased line, continuous communications are maintained. With the auto-dial option, you can define multiple times of the day to dial out to the reference lab. Communications with the reference lab system are initiated when one of the three conditions are met: orders have been released from the sendout queue, a predefined auto-dial time has passed, or manual user request has been initiated.

Upon completion of test processing at the reference lab, test results are queued for transmission to STAR Laboratory. Normal range and panic values defined by the reference lab are included in the test result information transmitted to STAR Laboratory. Test results are transmitted from the reference lab to STAR Laboratory using the Reference Lab Interface.

Test results received from the reference lab are filed on STAR Laboratory based on the result component order, as defined for the test code. The test status changes to *Partial* and the test is placed in a specific Reference Lab Review Queue. The test results are reviewed.

If the results are accepted, the test status changes to *Done* and the test is removed from the designated review queue and Incomplete Work Lists. A Primary Report is printed, updated information displays in Patient Inquiry, is filed to the Cumulative and Summary Report and is networked to STAR Patient Care or interfaced to a non-STAR HIS system.

ORDER PROCESSING

Order Entry

The Order Entry processor is used to enter laboratory test orders for a particular patient account. This processor stores test orders within the STAR Laboratory system until the specimen is accessioned. It also creates collection labels and Collection Summary Reports.

The steps and sequence of screens for ordering a sendout-interface test are the same as those performed for general laboratory tests. For detailed information on order processing, refer to Order Entry in Chapter 2: Order Management in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

Accessioning

The Accession processor acknowledges receipt of the specimen in the laboratory and generates accession labels. Tests must be accessioned by the ordering department before they can be processed for transfer to the reference laboratory.

The steps and sequence of screens for accessioning a sendout-interface test are basically the same as those performed for general laboratory tests. The Ref Lab Prompt/Response process is specific to sendout-interface tests and is covered in this document. Refer to Chapter 4: Accessioning in the *General Applications Volume I* of the *STAR Laboratory Reference Guide* for detailed information on Accessioning.

The following screen is an example of a Central Processing menu. You can access it from the main menu of the STAR Laboratory system.

The options displaying on this menu are user-defined and may differ from this example screen at your institution.

```

      General Hospital Central Processing Processor
                                Mon Jun 12, 1995 04:12 pm
Central Processing Input Options

      Option No.  Option
      -----
          1      Patient Inquiry
          2      Order Inquiry
          3      Case Login
          4      Order Entry
          5      Accessioning
          6      Collection Batch Management
          7      Print/Reprint Order Labels
          8      Reprint Accession Labels
          9      Order Cancellation
         10      Revise Order Information
         11      Specimen Transfer
         12      Collection Summary Report
         13      Pending Order Cancellation Review
         14      Quality Control/Workload
         15      Specimen Rejected Pt Reports

Enter option number--

```

Select Accessioning on the Central Processing Input Options menu. The following prompt displays:

Enter accession number--

When you enter a valid number at the accession number prompt, the following screen displays for the selected accession number:

```

      General Hospital Central Processing Specimen Accession Processor
                                Thu Jan 15, 2009 09:04 am
Unit #      Name      Sex Birthdate Room Physician Srv ICD Status
A000000025 JONES,MARY J F 01/01/1969 100-01 ADAMS,CARNES MED 10 I/P 522
      Accession # 1066 - ASAP
1 Collector 2 Collection Date/Time 3 Workload 4 Copy To 5 Specimen Type
#32295      04/24/95 1411      VOL/1/CEN      Defined      Blood
6 Specimen Mod 7 Accession Comment 8 Printer
N/A
      Code Description      Section Ordering Physician      QA1 Lab (Port #244)
9 Order Comment      Ordering Diagnosis      CP Status
6025 ALPHA-1-FETOPROTEIN SEN-Send GARDNER,STEPHANIE      N/A Ordered
      276.5-*HYPOVOLEMIA

Accept this screen? (Y/N) [Y] --

```


This screen displays all the tests on the accession. Once you accept the Accession screen, the system displays the following message:

Highlighted accessions 1066 logged!

The Reference Lab Prompt/Response screen displays immediately following the system message identifying the processed accessions.

REFERENCE LAB PROMPT/RESPONSE

Additional patient or specimen information may be required by the reference laboratory as a prerequisite for the processing of a specific sendout-interface test.

Reference Lab Prompts are defined in the Ref Lab Prompt/Test processor to enable you to access additional patient or specimen information. In addition, the specimen collection period, weight or volume are defined as required information for specific sendout-interface tests in the Main Information/Labels processor.

The following screen displays only if specimen weight/volume requirements or reference lab prompts have been defined for the sendout-interface test code(s) being accessioned. This screen displays for each sendout-interface test in ASCII order by test code.

General Hospital Central Processing Specimen Accession Processor					
			Thu Jan 15, 2009 09:04 am		
Unit #	Name	Sex Birthdate	Room	Physician	Srv ICD Status
A000000025	JONES, MARY J	F 01/01/1969	100-01	*ADAMS, CARNES	MED 10 I/P 522
Accession # 1947 ASAP					
1 Test Name	2 Specimen Volume		3 Specimen Weight		
ALPHA-1-FETOPROTEIN	N/A		N/A		
4 Reference Lab Prompt	Response				
Clinical History					
Maternal Age (years)					
Maternal Weight (lbs)					
Race					
Is patient diabetic?					
Gestational Age (weeks)					
Is this a multiple pregnancy?					
Enter patient HCG (IU/L)					
Enter response--					
F1Prev Page F2Next Page F6Reset F7Exit ?					

Field Explanations

1. TEST NAME (DISPLAY ONLY)

This field displays the test description for the accessioned test for which specimen collection requirements and/or reference lab prompts have been defined.

2. SPECIMEN VOLUME (20-ANP-C)

This field is required only if you have defined the test to prompt for collection volume. If required, the system displays the following prompt:

Enter specimen volume including units of measure--

Indicate the volume of the specimen collected, including the appropriate units of measure. If this field is not required, the system displays *N/A* and you cannot edit the field.

3. SPECIMEN WEIGHT (20-ANP-C)

This field is required only if you have defined the test to prompt for collection weight. If required, the system displays the following prompt:

Enter specimen weight including units of measure--

Indicate the weight of the specimen collected, including the appropriate units of measure. If this field is not required, the system displays *N/A* and you cannot edit the field.

4. REFERENCE LAB PROMPT/RESPONSE (SPECIAL FORMAT-O)

This field enables you to enter the appropriate response to the reference lab prompt(s) displayed. It uses a scrolling screen for input. When you access the scrolling screen field, the system displays the following at the bottom of the screen:

F1Prev Page F2Next Page F6Reset F7Exit ?

For more information on these function keys and how scrolling screens work, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The scrolling screen displays two columns of data. The reference lab prompt displays first, followed by the response for each reference lab prompt linked to the sendout-interface test accessioned. The columns of data are as follows:

REFERENCE LAB PROMPT (DISPLAY ONLY)

This field displays only if you have reference lab prompts linked to the sendout-interface test accessioned. A prompt of up to 36 alphanumeric characters can appear. If a test code is linked to multiple reference lab prompts, the display order of the prompts follows the order in which the test was linked to these prompts, as defined in the STAR Laboratory Maintenance Functions Ref Lab Prompt/Test processor.

RESPONSE (36-AN-O)

This field displays only if you defined reference lab prompts for the sendout-interface test accessioned. If a default response was defined for the associated reference lab prompt, it automatically displays in this field and can be edited. The following prompt displays when you access this field:

Enter response--

Enter the appropriate response to the reference lab prompt displayed. You can enter up to 36 alphanumeric characters. You cannot enter a colon (:) as part of the response. The system displays the following error message:

Error: Invalid format for this field!

NOTE: If default responses have been defined and you exit the scrolling screen by pressing F7 without making any changes, the reference lab prompts and default responses are filed when you accept the screen. If you exit this processor by pressing period (.) ENTER, only the reference lab prompts are filed.

When you complete all required fields, the system displays following prompt:

Accept this screen? (Y/N) [Y]--

Enter **N** to edit. Enter **Y** or press ENTER to accept the screen. When you accept the screen, the system displays the following message:

Filed!

Impact

When you complete accession processing for sendout-interface test orders:

- The test is placed in a Sendout Queue specific to the performing laboratory. Queue placement is based on the default sendout laboratory specified in the Master Test file.
- Accession labels print. Time and location of the accession label generation is controlled by a department flag. Sendout labels can print automatically at accessioning. This feature is also controlled by a department level flag.
- The test status is changed to Spec Recd.
- Tests can be added to the Incomplete Worklist for the defined default section. Inclusion of the test on the Incomplete Worklist is determined by the test level flag setting.
- Reference Lab Prompt/Response information displays in Patient Inquiry.
- Specimen collection period, weight or volume, if required by the reference lab as a prerequisite for the processing of a specific sendout-interface test, is defined.
- Patient or specimen information, if required by the reference lab as a prerequisite for the processing of a specific sendout-interface test, is defined.

SPECIMEN TRANSFER

The STAR Laboratory system's Specimen Transfer processors are used to process specimens for delivery to a commercial laboratory and to transfer specimens from the ordering laboratory to the performing laboratory within a multidepartment environment. These environments are hospitals in which more than one laboratory department exists within the system. All or selected tests within an accession or within a queue can be selected for processing.

You can perform the following functions with these processors:

- Route specimens to the performing laboratory
- Enter a Sendout/Transfer Comment
- Print Sendout/Transfer Labels and Travel Lists
- Capture specimen tracking information throughout the process
- Revise reference lab prompt or specimen weight/volume information on sendout-interface tests
- Manually dial a designated reference lab to receive queued results transmitted from the reference lab to STAR Laboratory
- Activate or inactivate the STAR Laboratory Reference Lab Interface
- Access Reference Lab Interface audit information

The Specimen Transfer menu is a section-level option that can be added to any section menu. The Specimen Transfer menu is usually attached to the Central Processing menu. It can also be located under Administration and within section menus.

After selecting the Specimen Transfer menu, the following menu displays:

```
General Hospital Central Processing Specimen Transfer Processor
                                Fri Jun 16, 2006 05:28 pm
Central Processing Specimen Transfer Input Options

Option No.  Option
-----
      1      Edit Sendout Queue
      2      Specimen Sendout
      3      Sendout Label Reprint

      4      Interdepartment Specimen Check-in

      5      Revise Reference Facility
      6      Revise Reference Facility Report

      7      Revise Ref Lab Prompt/Response Information
      8      Manual Dial Reference Lab
      9      Start/Stop Ref Lab Interface
     10      Interface Audit

Enter option number--
```

The first three options are used within the ordering department for sendout, sendout-interface and interdepartment tests. Certain information in these processors is specific to sendout-interface tests and will be included in this chapter. For detailed information on Specimen Transfer processing, refer to the Specimen Transfer chapter in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

The Interdepartment Specimen Check-in option is used only within the performing department for interdepartment tests. The remaining options are accessed from the Specimen Transfer menu if your institution is using the Reference Lab Interface. Each option is discussed separately as follows.

Edit Sendout Queue

The Edit Sendout Queue processor enables you to:

- Move tests from one queue to another
- Add or delete a queued test from within the accession
- Assign a requisition number to the accession
- Print Sendout/Transfer labels
- Enter a Sendout/Transfer Comment

You can enter queues by:

- Selecting a particular laboratory and editing tests within the queue

- Entering an accession number and selecting tests from that accession to be edited

The actual steps and sequence of screens for editing a sendout queue for a sendout-interface test are basically the same as those performed for other laboratory tests. Information specific to sendout-interface tests is covered in this document. Refer to Chapter 5: Specimen Transfer in the *General Applications Volume I* of the *STAR Laboratory Reference Guide* for detailed information on the Edit Sendout Queue processor.

Select Edit Sendout Queue from the Specimen Transfer menu. The system displays the following prompt:

Enter Sendout/Interdepartment lab code or edit single(S) accession--(or '-' for table)

Indicate the queue to be edited by entering the corresponding laboratory code or a hyphen (-) for selection from a table display. To edit a single accession, enter **S**, press ENTER, and enter the accession number.

Several mechanisms exist for indicating the tests/accessions to be edited within the Edit Sendout Queue processor. For detailed information on these options, refer to Edit Sendout Queue in the Specimen Transfer chapter in the *General Applications Volume, Part I* of the *STAR Laboratory Reference Guide*.

Moving Selections to Another Queue

When you enter the desired tests/accessions, the system displays the following prompt:

Move(M) all selected accn /test or Edit(E) only--

Enter **M** to move the selections to another queue or enter **E** to edit the selected tests/accessions. You can also move selections within the edit screen by editing the Sendout/Transfer Lab field. For more information, refer to Field Explanations under Editing Selections later in this chapter.

In this example, **M** was entered to move all selections to another queue. Once you enter **M**, the following prompt displays:

Enter Sendout/Interdepartment Lab code to move all selected accn/test to--(or '-' for table)

Indicate the new performing laboratory by entering the laboratory code or a (-) for selection from the table display of sendout labs. When you select a laboratory, the following messages display:

Moving from CURRENT QUEUE to NEW QUEUEMove to NEW QUEUE complete, all accn/test selected moved!

The following requirements must be met for accessions/tests to be electronically transmitted to the designated reference laboratory, using the STAR Laboratory Reference Lab Interface:

- The test must be defined with a reference type of sendout-interface.
- The test and result cross-reference information must be defined for the sendout laboratory selected.

If these requirements have not been met for the accessions/tests selected, the following error message displays:

Warning: Test(s) cannot be transmitted via the Ref Lab Interface!

Editing Selections

If you enter **E** to edit selected test/accessions, the following screen displays for each accession you selected:

General Hospital Edit Sendout Queue Processor	
Community Lab	Mon Jun 12, 1995 04:00 pm
Specimens for: Quest	
Test Code: All	
Accn#: 1148	
6025-ALPHA-1-FETOPROTEIN	Status: Spec Recd
1 Sendout/Transfer Lab	2 Sendout Requisition #
Quest	->
3 Print Labels	4 Label Printer
No	West Side Closet (Port #55)
5 Sendout/Transfer Comment	
Enter sendout requisition number--	

Field Explanations

1. SENDOUT/TRANSFER LAB (TABLE-LOOKUP)

The name of the performing laboratory defined for the test code displays in this field. You can change the performing laboratory. The following prompt displays:

Enter sendout/transfer lab code, first letters '-' or '-' for table--

Indicate the new queue for this test to by entering the laboratory code or a (-) for selection from the table display of sendout labs.

2. SENDOUT REQUISITION # (10-C-O)

This field enables you to assign a requisition number to the specimen. The following prompt displays:

Enter sendout requisition number--

Enter the sendout requisition number. This number can be one used in an alternate numbering scheme within the laboratory; for example, the number pool assigned to the specimen.

3. PRINT LABELS (3-A-O)

This field enables you to print Sendout/Transfer labels. The following prompt displays:

Print sendout/transfer labels? (Y/N) [N]--

Enter **Y** to print Sendout/Transfer labels. Enter **N** or press ENTER for the default to bypass this field.

4. LABEL PRINTER (TABLE LOOKUP-C)

This field displays the port number and the description of the printer set up during the system installation as the most common printer for the sendout/transfer labels.

You can change the printer location by selecting this field. You can access this field only when the Print Labels field is set to Yes. When you select this field, the system displays a list of alternate printers defined for the sendout/transfer labels and will display section-specific printer information, if defined. Select another printer from the displayed choices, if desired.

If your laboratory has not assigned sendout/transfer printers, the system displays the following error message when you access this field:

Contact System Manager to assign printers for Sendout/Transfer Label!

5. SENDOUT/TRANSFER COMMENT (29-C-O)

This field enables you to enter a sendout/transfer comment. The following prompt displays:

Enter sendout/transfer comment or '-' for table--

Enter a free-form comment or a hyphen (-) to select an option from the Comment table. The sendout/transfer comment displays in the Sendout Comment field in Patient Inquiry tracking and prints on the Travel List.

When you complete all required fields, the following prompt displays:

Accept this screen? (Y/N/D) [Y]--

To edit the fields on this screen, enter **N**. To delete the test from this queue, enter **D**. The test will be resulted within the ordering department. When you accept the screen, the system displays the following message:

Deleted!

To accept all entries, enter **Y** or press ENTER for the default of Yes. When you accept the screen, the system displays the following message:

Filed!

If you selected to print labels, the screen displays the following message:

Filed and labels printed!

If an edit to the test has been processed, the following message displays:

Edit of selected accn/test completed!

The following requirements must be met for accessions/tests to be electronically transmitted to the designated reference laboratory, using STAR Laboratory Reference Lab Interface:

- The tests must be defined with a reference type of sendout-interface.
- The test and result cross-reference information must be defined for the sendout laboratory selected.

If these requirements have not been met for the accessions/tests selected, the following error message displays:

Warning: Test(s) cannot be transmitted via the Ref Lab Interface

These tests will be queued to the designated sendout laboratory, but test orders and results must be processed manually.

SPECIMEN SENDOUT

The Specimen Sendout processor performs certain tasks on accessioned interdepartment, sendout or sendout-interface test(s). All or selected tests within an accession or within a queue can be selected for processing.

The Specimen Sendout processor enables you to:

- Route specimens to the performing laboratory
- Enter a Sendout/Transfer Comment

- Print Sendout/Transfer Labels and Travel Lists
- Capture specimen tracking information throughout the process
- Transmit test orders to the designated reference laboratory and retrieve test results using the Reference Lab Interface

When you select the Specimen Sendout processor option from the Specimen Transfer menu, the following prompt displays:

Enter sendout/transfer lab code or process single accession(S)--(or first letters `` for table)

Enter a lab code, **S** to process a single accession, or a hyphen (-) to select from the table. The following screen displays:

```

                                General Hospital Specimen Sendout Processor
                                Mon Jun 12, 1995 04:06 pm
Sendout/Transfer: Quest
1 Process Sendouts/Transfers
->
2 Print Labels                      3 Label Printer
                                   West Side Closet (Port #55)
4 Print/Display Travel List        5 List Printer
                                   3rd Floor Middle (Port #122)
6 Sendout/Transfer Comment

Process as sendouts/transfers? (Y/N) [Y]--
```

Field Explanations

1. PROCESS SENDOUTS/TRANSFERS (1-A-R)

This field enables you to process the test(s) associated with a single accession or queue. The following prompt displays:

Process as sendouts/transfers? (Y/N) [Y]--

Enter **Y** or press ENTER to process the test(s) in the accession or queue specified in the previous prompt. Enter **N** to bypass this field.

2. PRINT LABELS (1-A-O)

This field enables you to print Sendout/Transfer labels. The following prompt displays:

Print sendout/transfer labels? (Y/N) [N]--

Enter **Y** to print Sendout/Transfer labels. Enter **N** or press ENTER for the default to bypass this field.

3. LABEL PRINTER (TABLE LOOKUP-C)

This field displays the port number and the description of the printer set up during the system installation as the most common printer for the sendout/transfer labels. You can change the printer location by selecting this field.

The Print Labels field must be set to Yes to access this field. When you select this field, the system displays a list of alternate printers defined for the sendout/transfer labels and will display section-specific printer information, if defined. Select another printer from the displayed choices, if desired.

If your laboratory has not assigned sendout/transfer printers, the system displays the following error message when you access this field:

Contact System Manager to assign printers for Sendout/Transfer Label!

4. PRINT/DISPLAY TRAVEL LIST (1-A-R)

This field enables you to produce a Travel List and determines if it should be displayed on the CRT screen or printed. The prompt for this field depends on the response to the Process Sendout/Transfers field. If you entered **Y**, the following prompt displays:

Print travel list? (Y/N) [N]--

Enter **Y** to print the Travel List. Enter **N** or press ENTER if you do not want to print the list.

Display(D) or Print travel list? (Y/N) [Y]--

Enter **Y** or press ENTER to print the Travel List, enter **D** to display the Travel List on the screen, or enter **N** if you do not want to print or display the list. If you enter **Y** to print the Travel List, the following prompt displays:

Sort travel list by specimen storage requirements? (Y/N) [Y]--

Certain specimens require special storage requirements during transport to maintain specimen integrity before test processing. These requirements are defined at the test level in the Interdepartment Referral/Sendout Labels processor. If a specific storage requirement is not defined for a test, the system default for the Travel List report is Refrigerated.

Enter **Y** to print the Travel List sorted by storage requirement. Enter **N** if you do not want to print the list. If you enter **Y**, Print Sorted displays in the field.

If you enter **N**, Print displays in the field. The report does not sort by storage requirement and prints all tests as a single report.

5. LIST PRINTER (TABLE LOOKUP-C)

This field displays the port number and description of the printer set up during system installation as the most common printer for travel lists. The printer location can be changed by selecting this field option number. Access to this field is only allowed when the Print/Display Travel List field is set to *Print*.

When you select this field, the system displays a list of alternate printers defined for the travel list and displays section-specific printer information, if defined. Select another printer from the displayed choices, if desired.

If your laboratory has not assigned Travel List printers, the system displays the following error message when you access this field:

Contact System Manager to assign printers for Travel Lists!

6. SENDOUT/TRANSFER COMMENT (29-C-O)

This field enables you to enter a sendout/transfer comment. The following prompt displays:

Enter sendout/transfer comment or '-' for table--

Enter a free-form comment or a hyphen (-) to select an option from the Comment table. The sendout/transfer comment displays in the Sendout Comment field in Patient Inquiry tracking and prints on the Travel List.

When you complete all required fields, the following prompt displays:

Accept this screen? (Y/N) [Y]--

To accept all entries, enter **Y** or press ENTER. To edit the fields on this screen, enter **N**.

Information entered here can be applied to:

- The entire queue
- Selected test codes within the queue
- Selected accessions per test code
- Selected accessions for the queue

Several mechanisms exist for indicating the tests/accessions to be processed within the Specimen Sendout processor. For detailed information on these options, refer to

Specimen Sendout in the Specimen Transfer chapter in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

After you have selected the accessions to process, the following message displays:

Processed!

Impact

When you complete Specimen Sendout processing:

- The test is removed from the Sendout queue.
- The test status changes from Spec Recd to Transmit when the order transaction is transmitted to the designated reference laboratory.
- The test status changes from Transmit to Ref Lab when the specimen receipt acknowledgement is sent by the reference laboratory.
- Workload for sendout processing is captured.
- Test information is captured in the audit trail and updated throughout the process.
- Test orders are transmitted to the designated reference lab and queued results are retrieved, using the Reference Lab Interface.
- Outgoing, Incoming and Error transaction record information is captured in the Reference Lab Interface audit.

Output

Output for the Specimen Sendout processor includes:

- Sendout/Transfer labels print (if requested)
- Travel List prints (if requested)

For detailed examples of the sendout/transfer labels, refer to Specimen Sendout in the Specimen Transfer chapter in the *General Applications Volume, Part I* of the *STAR Laboratory Reference Guide*.

Travel List

The following example contains a Travel List example.

Figure 3.1 Travel List Report (ALTRLTR0)

DEPARTMENT NAME Travel List		Page 1	
Mon Jun 12, 1995 02:09 pm			
Specimens sent to PERFORMING LABORATORY			
Facility: FACILITY NAME	Client Code: SENDER ID		
Sort: STORAGE REQUIREMENT			
Sendout/Transfer Comment: Fax results to Dr Jones			

No.	Accn #	Acct #	Name	Sex	Age	Priority
Test Name			Spec Type			Ref Code
1)	1808	A9308900002	SMITH, JOHN Q	M	65Y	TODAY
DIGITOXIN			Blood			3770
ENTER LAST DOSE DATE AND TIME			Last Dose received 7/21/1994 8:00 am			
2)	1857	A9303600001	GREEN, MARY JO	F	24Y	TODAY
17-HYDROXY CORTICOSTEROID			Urine 24 Hr			3775
			Spec Volume	:	1000 ml	
			Collection Period	:	24 hrs	
3)	1882	A9326300001	BROWN, ROBERT M	M	60Y	STAT
PROSTATE SPECIFIC ANTIGEN			Blood			****
4)	1903	A9304600001	JONES, MARY ANNE	F	35Y	ROUTINE
ESTRADIOL			Blood			3779
5)	1903	A9304600001	JONES, MARY ANNE	F	35Y	ROUTINE
ALPHA-1-FETOPROTEIN			Blood			3780
Maternal Age (years)			35 yrs			
Maternal Weight (lbs)			150 lbs			
Race			Black			
Is patient diabetic?			No			
Gestational Age (weeks)			16 weeks			
Is this a multiple pregnancy?			No			
6)	1925	A9424300004	BROWN, CAROLYN G	F	55Y	TIMED
ISOENZYMES			Blood			3772
Enter results for CK (U/L)			74			

Header Information

LINE 1

This line of the report displays the description of the STAR Laboratory ordering department.

LINE 2

This line of the report displays the date and time the report printed and the page number.

LINE 3

This line of the report displays the description of the reference laboratory for sendout or sendout-interface tests or the performing laboratory department for interdepartment tests.

LINE 4

This line of the report displays the description of the hospital facility and client code. The client code displays as the Sender ID defined in the Reference Lab Interface Parameters builder. The client code information prints only if the performing laboratory for this report is a sendout laboratory with reference lab interface parameters defined.

LINE 5

This line of the report displays the description of the storage requirement pertaining to this portion of the report. The sort header prints only if the report is sorted by storage requirement. A new page starts for each storage requirement. The sort order is determined by ASCII description of the storage requirement.

LINE 6

This line displays the specific Sendout/Transfer Comment associated with the batch. The Sendout/Transfer Comment provides information about additional patient or specimen collection/handling for sendout or interdepartment tests. Up to 29 characters print. This information prints on the Travel List report only when information has been filed.

Body of Report

NO.

This is the sequential number of the accessions listed on this report.

ACCN #

This is the accession number for the test being sent out or transferred. Up to 10 characters print.

ACCT #

This is the account number for the patient on which this accession was ordered. Up to 13 characters print.

NAME

This is the patient's name in the LAST, FIRST M format. Up to 25 characters print.

SEX

This denotes the patient's sex.

AGE

This is the patient's age. Up to 3 numerics print followed by Y to indicate years, M to indicate months, or D to indicate days.

PRIORITY

This is the order priority for the test. Up to 8 characters print.

TEST NAME

This is the descriptive name of the test being sent out or transferred. Up to 25 characters print.

SPEC TYPE

This is the descriptive name of the specimen and the specimen modifier. Up to 33 characters print.

REF CODE

Information prints in this field only for tests defined with a reference type of sendout-interface. The reference lab test code cross-reference assigned to the STAR Laboratory test prints in this field. If a reference lab test code has not been assigned to the STAR Laboratory test, a line of asterisks (****) print in this field.

REQUISITION NUMBER

This is the requisition number associated with the ordered test.

NOTE: The following information prints beginning on the third line of the report information on the report. This information prints only for sendout-interface tests when information has been filed.

If specimen weight/volume requirements or reference lab prompts are associated with a specific sendout-interface test, these prompts always print on the Travel List, even if you have not entered a response.

SPEC WEIGHT/VOLUME

This is the specimen weight or volume associated with the ordered test.

COLLECTION PERIOD

This is the specimen collection period associated with the sendout-interface test.

REFERENCE LAB PROMPT

This is the Reference Lab Prompt(s) associated with the ordered test. The Reference Lab Prompt/Response provides additional patient or specimen collection information required by the Reference Laboratory for test processing.

Multiple reference lab prompts can be associated with an ordered test. If a sendout-interface test code is linked to multiple reference lab prompts, the display order of the reference lab prompts follows the order in which the test was linked to the reference lab prompts, as defined in the STAR Laboratory Maintenance Functions Ref Lab Prompt/Test processor.

RESPONSE

This is the response to the Reference Lab Prompt. Up to 36 characters print.

At the end of the report, the following message prints:

End of report!

If the report is greater than 1 page, the appropriate page breaks include the following display at the end of each page:

(Continued)

REVISE REF LAB PROMPT/RESPONSE INFORMATION

The Revise Ref Lab Prompt/Response Information function enables you to edit specimen weight or volume and reference lab prompt response information outside of the Accession processor. Editing is limited, based on the test status of the sendout-interface test. This function is an option on the Specimen Transfer menu and is available as a section-level function that can be added to any section menu.

Once you select the Revise Ref Lab Prompt/Response option, the system prompts you for the accession number:

Enter accession number-

Enter the accession number for the accession you need to revise.

The system evaluates each test on the accession. The tests must meet the following requirements to be eligible for revision of reference lab prompt information:

- The test must be defined with a reference type of sendout-interface.
- Specimen weight or volume is required or reference lab prompts linked to the test on the selected accession.
- Editing of specimen collection and reference lab prompt information is limited to the following:
 - Sendout-interface tests in a Spec Rec'd status and from the ordering lab department.
 - Sendout-interface tests in a Received status and from the performing lab department. This scenario occurs in a multidepartment environment, where tests are defined as interdepartment in the ordering department and sendout-interface in the performing department.

If a sendout-interface test in a Spec Rec'd status is selected for edit and the ordering department for the tests on the accession differs from the current department, the system displays the following message:

*Accn# NNNN not ordered thru this department - CURRENT LAB DEPT CODE, belongs to
- ORDERING LAB DEPT CODE.*

Must be in department - ORDERING LAB DEPT CODE for further accn processing!

To revise this accession, access the ordering department on the system and then access the Revise Ref Lab Prompt/Response Information function.

If no tests on the accession are eligible for revision, the system displays the following message before redisplaying the accession number prompt:

Accn# NNNN not eligible for revision of ref lab prompt information!

If multiple tests on an accession are eligible for revision, the system displays the following screen:

```

      General Hospital Revise Ref Lab Prompt/Response Information Processor
                                     Thu Jan 15, 2009 09:04 am
Unit #      Name      Sex Birthdate Room  Physician      Srv ICD Status
A000000025 JONES,MARY J    F  01/01/1969 100-01  *ADAMS,CARNES MED 10  I/P 522
                                     Accession # 1948
Acct #: A9304600001
                                     Page:01
Opt #      Order#      Test Name      Date/Time      Status
( 1)      1161      CPK ISOENZYMES      5/21/95 1605      Spec Recd *STAT
( 2)      1161      LDH ISOENZYMES      5/21/95 1605      Spec Recd *STAT

Enter option--

```

The following prompt displays:

Enter option--

Enter the option for the test you need to revise. When you select a test or if just one test on an accession is eligible for revision, the system displays the following screen:

```

      General Hospital Revise Ref Lab Prompt/Response Information Processor
                                     Thu Jan 15, 2009 09:04 am
Unit #      Name      Sex Birthdate Room  Physician      Srv ICD Status
A000000025 JONES,MARY J    F  01/01/1969 100-01  *ADAMS,CARNES MED 10  I/P 522
                                     Accession # 1947 ASAP
1 Test Name      2 Specimen Volume      3 Specimen Weight
  ALPHA-1-FETOPROTEIN      N/A      N/A
4 Reference Lab Prompt      Response
Clinical History      Unknown
Maternal Age (years)      32 yrs
Maternal Weight (lbs)      155 lbs
Race      Black
Is patient diabetic?      No
Gestational Age (weeks)      16 weeks
Is this a multiple pregnancy?      No
Enter patient HCG (IU/L)

Enter response--
F1Prev Page F2Next Page F6 Reset F7 Exit ?

```

Field Explanations

1. TEST NAME (DISPLAY ONLY)

This field displays the test description for the sendout-interface test for which specimen collection requirements and/or reference lab prompts have been defined.

2. SPECIMEN VOLUME (20-ANP-C)

This field is required only if you have defined the sendout-interface test to prompt for collection volume. If required, the following prompt displays:

Enter specimen volume including units of measure--

Indicate the volume of the specimen collected, including the appropriate units of measure. If this field is not required, the system displays *N/A* and you cannot edit this field.

3. SPECIMEN WEIGHT (20-ANP-C)

This field is required only if you have defined the sendout-interface test to prompt for collection weight. If required, the following prompt displays:

Enter specimen weight including units of measure--

Indicate the weight of the specimen collected, including the appropriate units of measure. If this field is not required, the system displays *N/A* and you cannot edit this field.

4. REFERENCE LAB PROMPT/RESPONSE (SPECIAL FORMAT-O)

In this field, enter the appropriate response to the reference lab prompt(s) displayed. This field uses a scrolling screen for input. When you access the scrolling screen field, the system displays the following at the bottom of the screen:

F1Prev Page F2Next Page F6 Reset F7 Exit ?

For more information on these function keys and how scrolling screens function, Refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

The scrolling screen displays two columns of data. The reference lab prompt displays first, followed by the response for each reference lab prompt linked to the sendout-interface test accessioned. The columns of data are as follows:

REFERENCE LAB PROMPT (DISPLAY ONLY)

This field displays only if you have defined reference lab prompts for the sendout-interface test accessioned. A prompt of up to 36 alphanumeric characters including punctuation can be displayed.

If a sendout-interface test code is linked to multiple reference lab prompts, the display order of the reference lab prompts follows the order in which the test was linked to the

reference lab prompts, as defined in the STAR Laboratory Maintenance Functions Ref Lab Prompt/Test processor.

RESPONSE (36-ANP-O)

This field is required only if you have defined reference lab prompts for the sendout-interface test accessioned. If a default response has been defined for the associated reference lab prompt, it automatically displays in this field and can be edited. The following prompt displays when you access this field:

Enter response--

Enter the appropriate response to the reference lab prompt displayed. A response of up to 36 alphanumeric characters including punctuation can be entered.

When you complete all required fields, the following prompt displays:

Accept this screen? (Y/N) [Y]--

Accept the screen by entering **Y** or pressing ENTER. Enter **N** to edit. When you edit the ref lab prompt information and accept the screen:

- Edited reference lab prompt response and specimen weight/volume information prints on the Travel List Report and displays in Patient Inquiry.
- The edited reference lab prompt response and specimen weight/volume information is transmitted as a part of the test order transaction to the designated reference lab.

TEST PROCESSING

The Reference Lab Interface provides a network link between the STAR Laboratory and reference laboratory systems. This section describes the test processing that occurs on STAR Laboratory when each of the following record transactions are transmitted by the reference laboratory through the interface:

- Add-on order request processing
- Order cancellation request processing
- Result processing

Add-On Order Request Processing

The following functions are performed during the processing of an add-on order request received from the reference lab:

- The add-on order request transaction is transmitted by the reference lab.
- The following system checks are evaluated before the add-on order is processed on STAR Laboratory:
 - (1) The add-on order must pass current STAR Laboratory split logic criteria for add-on orders, with the exception of the check for maximum number of orders per accession.
 - (2) The add-on test must be an existing/active test code on the STAR Laboratory system, for which reference lab test cross-reference information is defined.
- If the add-on test fails these system checks, the following processing occurs:
 - (1) An error is filed to the interface audit and the add-on order is not processed.
 - (2) An add-on order notification prints on the interface error log printer.
 - (3) The incoming and outgoing transaction record information is captured in the interface audit.
- If the add-on order passes the system checks, add-on order processing occurs, with the exception of charging. Charge processing for add-on orders requires additional evaluation by laboratory personnel and is performed manually.

- If the add-on order request processing in a multidepartment environment:

An add-on order request cannot be processed in the performing department for an accession which was ordered in a different lab department, the following error message displays in the Reference Lab Interface Add-on/Cancel Order and Error Audit processors:

Test not ordered

This indicates that the add-on lab test needs to be manually ordered, accessioned and specimen transfer processing completed in the ordering department. The add-on order then needs to be checked in the performing department. These steps need to occur prior to test results being transmitted from the reference lab for the add-on order.

When add-on order processing is completed:

- The add-on order information is added to the original accession and displays in the Patient Inquiry tracking audit.
- The Order Comment field in Patient Inquiry displays a comment indicating an add-on order request received from the designated reference lab was processed.
- The add-on order test status is filed as Ref Lab.
- The add-on order test can be added to the Incomplete Work file for the defined default section. Inclusion of the test on Incomplete Worklist is determined by the test level flag setting.
- An add-on order notification prints on the interface error log printer.
- The incoming and outgoing transaction record information is captured in the interface audit.

Revise Order Information

The Revise Order Information function enables you to edit order information outside the Accession Processor function. To access the Revise Order Information function, select this option from the Central Processing menu.

```

                                General Hospital Central Processing Processor
                                Mon Jun 12, 1995 04:45 pm
Central Processing Input Options

Option No.  Option
-----
      1      Patient Inquiry
      2      Order Inquiry
      3      Order Entry
      4      Accessioning

      5      Collection Batch Management
      6      Print/Reprint Order Labels
      7      Reprint Accession Labels
      8      Order Cancellation
      9      Revise Order Information
     10      Specimen Transfer
     11      Collection Summary Report
     12      Pending Order Cancellation Review
     13      Quality Control/Workload
     14      Specimen Rejected Pt Reports
     15      Pt. Care Patient Management
Enter option number--
```

Once you select the Revise Order Information option, the following screen displays:

```

                                General Hospital Front Office Revise Order Processor
                                Tue Aug 19, 2003 05:19 pm
Front Office Revise Order Input Options

Option No.  Option
-----
      1      Revise Order
      2      Revise Order Audit and Report

Enter option number--
```

Select **Revise Order** the system prompts you for the accession number:

Enter accession number--

Enter the accession number for the accession you need to revise. If the ordering department for the tests on the accession differs from the current department you have accessed on the system, STAR Laboratory displays the following:

Accn # 1234 not ordered thru department - LAB, belongs to - LAC.

To revise this accession, you have to access the ordering department on the system (department LAC in the preceding example) and then access the Revise Order Information function.

As an order accessed via Revise Order must all ready be accessioned edits done in Revise Order are changed in two ways:

- adding on orders to an accession
- edits/changes to the collection date on previously accessioned tests.

The following screen depicts an add-on order situation.

General Hospital Front Office Revise Order Information Processor							
				Thu Jan 15, 2009 09:04 am			
Unit #	Name	Sex	Birthdate	Room	Physician	Srv ICD	Status
A000002109	TEST,AUNT	F	03/03/1943	117-1	ADAIR,FRANK C	MED 10	I/P 71
Accession # 2882 - TODAY							
1 Priority	2 Specimen Type	3 Specimen Modifier	4 Collect Time				
TODAY	Blood	N/A	03/06/03 1259				
5 Collector	6 Accession Comment	7 Edit By	8 Edit Date/Time				
#334		Jones,Lisa	03/18/03 1041				
Code	Description	Section	Ordering Physician	CP Status			
9	Order Comment		Ordering Diagnosis				
1365	CREATININE, SERUM	CHM-Chemi	ADAIR,FRANK C	N/A Done			
			PNEUMONIA				
1280	BUN	CHM-Chemi	ADAIR,FRANK C	N/A Spec Re			
			PNEUMONIA				
Enter test code of first letter(s)`-`--							
F1Prev Page F2Next Page F3 Add-On F4 Delete F6 Reset F7 Exit ?							

Once an order is added on then the Collection Date is reflected as that test's Date of Service (DOS). For example, if a Glucose was added onto the accession above, then it's DOS would be 03/06/02.

Impact

The system evaluates the status of each test on this accession. If any test status is Backloaded, Cardfile, or Archived, or if all test statuses are Cancelled and/or Rejected, the system displays the following message before returning to the accession number prompt:

Accn # 9999 not eligible for revision of order information!

If tests on the accession are eligible for revision, the system displays the following screen. This includes all tests on the accession regardless of status:

General Hospital Central Processing Revise Order Information Processor							
Thu Jan 15, 2009 09:04 am							
Unit #	Name	Sex	Birthdate	Room	Physician	Srv	ICD Status
A000000025	JONES,MARY J	F	01/01/1969	100-01	ADAMS,CARNES	MED 10	I/P 522
Accession # - 1176							
1 Priority	2 Specimen Type	3 Specimen Modifier	4 Collect Time				
ROUTINE	Blood	N/A	07/04/03 1640				
5 Collector	6 Accession Comment	7 Edit By	8 Edit Date/Time				
#32295		Smith,Janet F	07/04/03 1653				
Code	Description	Section	Coll Period	Status			
9	Ordering Physician	Ordering Diagnosis					
6533	HEPATITIS A ANTIBODY,TOTAL	SEN-Send Out	N/A	Ref Lab			
		276.5-*HYPOVOLEMIA					
	ADAMS,CARNES						
6534	HEPATITIS A IGM ANTIBODY	SEN-Send Out	N/A	Ref Lab			
		276.5-*HYPOVOLEMIA					
	WINCHESTER,CHARLES						
Enter field number or '/' starting field number--							

Field Explanations

1. PRIORITY (DISPLAY ONLY)

This field displays the priority assigned to the accession. You cannot edit this field.

2. SPECIMEN TYPE (TABLE LOOKUP - R)

This field displays the specimen type assigned to the accession. In order for you to edit this field, all the tests in the accession must have the status Spec Rec'd, Order Cancelled, and/or Order Rejected and the Specimen Edit flag must be set to Yes. If all tests on the accession are not Spec Rec'd, the system displays the following error message:

Field not editable! All tests must be in Spec Rec'd status!

If the accession contains an Anatomic Pathology test, you cannot edit the specimen type field if the tests have a status of Spec Rec'd. If you try to access one of these fields, the system displays the following:

Field not editable! No specimen edits allowed!

If the Specimen Edit flag is set to No, the system displays the following error message:

Field not editable! No specimen edits allowed!

When you edit this field, STAR Laboratory updates all tests on the accession.

3. SPECIMEN MODIFIER (25-C-O)

This field displays the specimen modifier assigned to the accession. In order for you to edit this field, all the tests in the accession must have the status Spec Rec'd, Order

Cancelled, and/or Order Rejected and the Specimen Edit flag must be set to Yes. If all tests on the accession are not Spec Rec'd, the system displays the following error message:

Field not editable! All tests must be in Spec Rec'd status!

If the accession contains an Anatomic Pathology test, you cannot edit the specimen modifier field if the tests have a status of Spec Rec'd. If you try to access one of these fields, the system displays the following:

Field not editable! All tests must be in Spec Rec'd status!

If the Specimen Edit flag is set to No, the system displays the following error message:

Field not editable! No specimen edits allowed!

4. COLLECT TIME (DATE-C)

This field displays the collection date and time when you have accessioned one or more of the tests on the accession. If you have not accessioned any of the tests on the accession, this field is blank. If you access the field in this case, the system displays the following message:

Field not editable! Collection Date/Time not defined!

When you edit this field and accept the screen:

- The system updates the collection time for tests which have been accessioned.
- The system updates accession cancelled and accession rejected tests.
- The Patient Inquiry Tracking screen displays the updated date and time.
- Patient Inquiry displays the accession under the new date.
- The system prints and displays the updated date and time for incomplete tests.
- The system updates tests in History Cardfile.
- The system updates the collection date and time used for duplicate/conflict checking.
- The system prints tests on Cum Trend Reports based on the new collection date and time.
- The system prints the new collection date and time on Summary reports.

Changing the collection date would result in a subsequent change of the Date of Service for any tests on the edited accession. Refer to the Collect Time field in the following screen prints. The original DOS was 08/07/03.

```

General Hospital Front Office Revise Order Information Processor
Thu Jan 15, 2009 09:04 am
Unit #      Name      Sex Birthdate Room Physician Srv ICD Status
A000002109 TEST,AUNT  F 03/03/1943 117-1 ADAIR,FRANK C MED 10 I/P 71
Accession # 2879 - TODAY
1 Priority 2 Specimen Type 3 Specimen Modifier 4 Collect Time
TODAY      Blood          N/A              -> 08/07/03 1250
5 Collector 6 Accession Comment 7 Edit By 8 Edit Date/Time
#334              Jones,Lisa      08/19/03 1226
Code Description Section Ordering Physician CP Status
9 Order Comment Ordering Diagnosis
1390 ELECTROLYTE PANEL, S CHM-Chemi ADAIR,FRANK C N/A Done
PNEUMONIA
1475 GLUCOSE, FASTING CHM-Chemi ADAIR,FRANK C N/A Spec Re
PNEUMONIA

Enter new collection date and/or time--

```

The collection date and time were changed in the Collect Time field as reflected in the following screen:

```

General Hospital Front Office Revise Order Information Processor
Thu Jan 15, 2009 09:04 am
Unit #      Name      Sex Birthdate Room Physician Srv ICD Status
A000002109 TEST,AUNT  F 03/03/1943 117-1 ADAIR,FRANK C MED 10 I/P 71
Accession # 2879 - TODAY
1 Priority 2 Specimen Type 3 Specimen Modifier 4 Collect Time
TODAY      Blood          N/A              08/18/03 0958
5 Collector 6 Accession Comment 7 Edit By 8 Edit Date/Time
#334              Jones,Lisa      08/19/03 1226
Code Description Section Ordering Physician CP Status
9 Order Comment Ordering Diagnosis
1390 ELECTROLYTE PANEL, S CHM-Chemi ADAIR,FRANK C N/A Done
PNEUMONIA
1475 GLUCOSE, FASTING CHM-Chemi ADAIR,FRANK C N/A Spec Re
PNEUMONIA

Enter field number or '/' starting field number--

```

The new DOS is 08/18/03. Any changes to just the collection date changes the DOS. Any change to just the collection time does not have an affect on the DOS. The new DOS is not networked to STAR PatientCare. Use the Revise Order Audit to track DOS edits.

When you change the collection date and time, the system verifies that your new date does not exceed the maximum specimen age. This is determined by subtracting the original accession date and time of each test from the new collection date and time to see if the test has exceeded the defined maximum specimen age.

If any test has exceeded this maximum, the system displays the following screen:

General Hospital Central Processing Revise Order Information Processor						
Thu Jan 15, 2009 09:04 am						
Unit #	Name	Sex	Birthdate	Room	Physician	Srv ICD Status
A000000025	DURDEN,ALLISON	F	04/11/1959	100-02	LABONE,DOCTOR MED 10	I/P 45
Accession # 3892					Spec Age: 60480 Minutes	
Opt	Test	Description	Status	Max	Spec Age	Exceeded
(1)	1000	CBC WITH AUTOMATED DIFF.	Spec Recd	0060		**
(2)	1023	HEMOGLOBIN AND HEMATOCRIT	Spec Recd	60		**
(3)	3046	ELECTROLYTE PANEL	Spec Recd	60		**
Press NL--						

When the system displays this screen, you must use the Specimen Rejection processor in Accessioning or Result Entry to reject any tests.

5. COLLECTOR (19-AN-C)

This field displays the collector when one or more of the tests on the accession has been accessioned. If none of the tests have been accessioned, this field is blank. If you access this field when it is blank, the system displays the following message:

Field not editable! Collector not defined!
Field cannot be edit!

If you edit this field, the system updates all tests that have been accessioned. For further information on editing this field refer to Accession Processor in Chapter 4: Accessioning in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

NOTE: When you edit the Collector field you need to manually adjust collection workload.

6. ACCESSION COMMENT (36-AN-O)

This field displays the accession comment once you accession one or more tests and you have defined an accession comment. If you access the field when all of the tests do not have a status of Spec Rec'd, the system displays the following error message:

Field not editable! All tests not in Spec Rec'd status!

If no tests have been accessioned, this field is blank. If you access this field, the system displays the following message:

Field not editable! No tests have been accessioned!

When you edit this field the system updates all tests that have had the accession comment defined.

7. EDIT BY (DISPLAY ONLY)

This field displays the name of the person who last edited the order information.

8. EDIT DATE/TIME (DISPLAY ONLY)

This field displays the date and time of the last edit to the order information.

9. SCROLLING SCREEN FIELD

This field uses scrolling screen processing. The Insert and Delete functions are not available in this function. For more information on scrolling screen processing, Refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

COLL PERIOD (2-N-C)

For a test that is an add-on order request transmitted from the reference lab and processed on STAR Laboratory, this field displays the collection period, if defined, from the original order request transmitted to the reference lab.

If multiple order transactions have been transmitted on the same accession, this field displays the collection period which corresponds to the first test on the accession in ASCII order by test code with a collection period defined.

STATUS (DISPLAY ONLY)

This field displays the status of the test.

ORDERING COMMENT (36-C-O)

The Order Comment field in Revise Order Information cannot be edited if the test is an add-on order received from the reference lab and has been processed on STAR Laboratory. The system automatically displays the following comment in this field:

Ordered by REFERENCE LAB DESCRIPTION.

This comment indicates that the add-on order request transmitted from the reference lab has met all the hospital laboratory requirements and has been processed on STAR Laboratory.

ORDERING DIAGNOSIS (33-C-O)

For a test that is an add-on order request transmitted from the reference lab and processed in STAR Laboratory, this field displays the working diagnosis defined for the patient account. Edits to this field follow current system functionality.

ORDERING PHYSICIAN (25-C-R)

For a test that is an add-on order request transmitted from the reference lab and processed on STAR Laboratory, this field displays the attending doctor defined for the patient account. Edits to this field follow current system functionality.

Revise Order Audit

The Revise Order Audit displays on the screen any edits made to accession level information within the defined data retention time period. The edited information that displays is the last version of the information and the previous information version. Should the user wish to see all edited versions the Revise Order Information Report needs to be printed.

The following screen displays when there are edited items available to view. In a multi-facility and/or multi-department environment the user is prompted to choose a facility and/or a department prior to the screen display. Dates on the screen display in reverse chronological order. Up to five columns of 16 entries each may display on the screen. If more than one page is available for viewing the following prompt displays.

Enter choice to view-

next pg(/ or PG DN) Search(TAB)

```
General Hospital Revise Order Audit Processor
                                           Tue Aug 19, 2003 04:16 pm

Page:01                                Revise Order Audit Dates
( 1) 08/19/03
( 2) 08/17/03
( 3) 07/23/03
( 4) 06/04/03
( 5) 05/18/03

Enter choice to view--
```

Only one date may be chosen at a time. Once a date is chosen the following screen displays any revised item information. The screen may or may not display all five items. The screen only displays items that have been revised.

```
General Hospital Revise Order Audit Processor
                                           Tue Aug 19, 2003 04:16 pm

Items with Revise Order Information for 08/17/03

( 1) Specimen
( 2) Specimen Modifier
( 3) Collection Date/Time
( 4) Collector ID
( 5) Accession Comment

Enter choice to view--
```

Only one item may be chosen at a time. Once an item has been chosen, the following screen displays with pertinent patient information about the selected item.

General Hospital Revise Order Audit Processor							
						Thu Jan 15, 2009 09:04 am	
Unit #	Name	Sex	Birthdate	Room	Physician	Srv	ICD Status
A000003577	PATIENT,ONE	F	03/03/1972		SCOTT,EDWARD	ERS 10	DIS HOM
Revised Order Information - Collection Date/Time							
Accession # 3191							
Test	Description						
1005	AMIKACIN, PEAK						
2090	CBC						
1475	Glucose						
Before: 08/17/03 1535				After: 08/16/03 1338			
Edit By: Jones, Susie				Edit Date/Time: 08/19/03 0714			
Accession # 3192							
Test	Description						
7390	Urinalysis						
Before: 08/17/03 1535				After: 08/16/03 1339			
Edit By: Jones, Susie				Edit Date/Time: 08/19/03 0714			
F1 Prev Page F2 Next Page F7Exit							

Screen Header

The header displays patient demographics, the phrase *Revise Order Information*, and the selected item for review.

Field Explanations

The screen shows all accessions and associated tests that were affected by the revision for the chosen date. Accession number(s), test code(s) and test description(s) display on the screen.

BEFORE

Displays the information version prior to revision.

AFTER

Displays the most current information.

EDIT BY

Displays the name of the person making the revision.

EDIT DATE/TIME

Displays the date/time the revision was made.

NOTE: Edits to Collector ID shows the Before and After name of the collector not their ID code.

The screen uses scrolling screen processing to allow the user easy access to multiple pages of information should they exist. Once the user enters **F7** the system returns to the Revise Order Audit Dates page.

Revise Order Information Report

The Revise Order Information Report is a printed report that provides detailed information on accession level revisions performed via the Revise Order processor. The report will print all accession level edits for every test on the revised accessions.

```
General Hospital Front Office Revise Order Audit/Information Processor
                                Tue Aug 19, 2003 01:08 pm
Front Office Revise Order Audit/Information Input Options

Option No.  Option
-----
      1      Revise Order Audit
      2      Revise Order Information Report

Enter option number--
```

In a multi-facility and/or multi-department environment the user is prompted to choose a facility and/or a department prior to the report screen display. The following new screen displays showing user options for printing the report.

```
General Hospital Revise Order Information Report Processor
                                Tue Aug 19, 2003 10:08 am

Revise Audit Information Report
1 Single Patient                2 Facility
3 Start Date                   4 End Date
5 Revised Item                 6 Sort
7 Number of Copies             8 Default Printer
                                Lab printer (Port #55)

Enter field number or '/' starting field number--
```

Field Explanations

1. SINGLE PATIENT (1-A-R)

When the Single Patient field is accessed the following prompt displays.

Print single(S) or all(A) patients? [A]--

If S is selected, a single patient's data prints on the report. If A is selected, all patients for the selected facility, field 2 print on the report. The default response is A for all patients. If **S** is entered, the following prompt displays.

Enter '&'unit#, ''account# or accession#--
patient name (Last, First MI), '-' SS# or '=' for current*

Standard patient lookup techniques apply. Multiple accounts may be selected on a single patient if the patient is accessed by unit number, patient name, SS# or '='. Once a patient has been selected, the patient's name, Last, First MI, up to 20 characters, displays in the Single Patient field.

If A is selected, or the default response is taken, the word *All* displays in the field.

NOTE: If a single patient is selected, the facility name for the patient automatically displays in the Facility field.

2. FACILITY (TABLE LOOKUP-R)

If only one facility exists on the system the facility name automatically fills in this field regardless of the choice made in the Single Patient field.

In a multi-facility environment a list of patient facilities displays as shown.

General Hospital Revise Order Information Report Processor			
Tue Aug 19, 2003 10:08 am			
Revise Audit Information Report		2 Facility	
1 Single Patient			
All			
3 Start Date	4 End Date		
5 Revised Item	6 Sort		
7 Number of Copies	8 Default Printer		
	Lab printer (Port #55)		
Page:01	Facilities	##=Current Choice	
(1) Model Hospital A			
(2) Model Hospital B			
(3) Model Hospital C			
Enter choice--			

The user enters a facility choice at the following prompt.

Enter choice--

Only one facility may be selected for the report. Once the selection is made, the facility name displays in the field.

3. START DATE (TABLE LOOKUP-R)

The default in the prompt below is the first date found at the beginning of the data retention period. If no information is available in the retention table the default date is the current date. If a table lookup is chosen gaps in the table indicate no accession level revisions were made on those dates.

General Hospital Revise Order Information Report Processor	
Tue Aug 19, 2003 10:08 am	
Revise Audit Information Report	
1 Single Patient	2 Facility
All	Model Hospital A
3 Start Date	4 End Date
5 Revised Item	6 Sort
7 Number of Copies	8 Default Printer
	Lab printer (Port #55)
Enter date or - for table [05/12/03]--	

If more than one page of dates is available on the table the following prompt displays.

Enter choice--
nextpg(/orPGDN) Search(TAB)

The user may use the /key or the *Page Down* key to maneuver through dates. To get back to other pages of dates the user may use /P or the *Page Up* key.

4. END DATE (TABLE LOOKUP-R)

The default in the prompt is the latest date that contains revised information. If no information is available in the retention table the default date is the current date. If a table lookup is chosen gaps in the table indicate no accession level revisions were made on those dates.

General Hospital Revise Order Information Report Processor	
Tue Aug 19, 2003 10:08 am	
Revise Audit Information Report	
1 Single Patient	2 Facility
All	Model Hospital A
3 Start Date	4 End Date
08/17/03	
5 Revised Item	6 Sort
7 Number of Copies	8 Default Printer
	Lab printer (Port #55)
Enter date or - for table [08/19/03]--	

If more than one page of dates is available the following prompt displays.

Enter choice--

nextpg(/or PG DN) Search(TAB)

The user may use the /key or the *Page Down* key to maneuver through dates. To get back to other pages of dates the user may use /P or the *Page Up* key.

If a date is chosen prior to the start date defined in the Start Date field the following error message displays.

Error: Invalid date!

5. REVISED ITEM (1-N-R)

The choices for entry into this field are any or all of the accession level revised items.

General Hospital Revise Order Information Report Processor		
Tue Aug 19, 2003 10:08 am		
Revise Audit Information Report		
1 Single Patient	2 Facility	
All	Model Hospital A	
3 Start Date	4 End Date	
08/17/03	08/19/03	
5 Revised Item	6 Sort	
7 Number of Copies	8 Default Printer	
	Lab printer (Port #55)	
Page:01	Revise Order Information Items	##=Current Choices
(1) Specimen		
(2) Specimen Modifier		
(3) Collection Date/Time		
(4) Collector ID		
(5) Accession Comment		
Enter choices (e.g. 1,7,5-9) or '-'choices to remove--		
end select(NL)		

At the prompt *Enter choices (e.g. 1,7, 5-9) or '-' choices to remove--* the user may choose a single item, multiple items or all items to print. If a single item is chosen the item description displays in the field. If multiple items are chosen the word *Multiple* displays and if all items are chosen the word *All* displays in the field.

6. SORT (1-N-O)

Sorts for the report display on the screen below. If no sort is defined the report defaults to the Patient Name sort.

```

General Hospital Revise Order Information Report Processor
                                Tue Aug 19, 2003 10:08 am

                                Revise Audit Information Report
1 Single Patient                2 Facility
All                             Model Hospital A
3 Start Date                    4 End Date
08/17/03                        08/19/03
5 Revised Item                  6 Sort
Collection Date/Time            Name
7 Number of Copies              8 Default Printer
                                Labprinter (Port #55)

Page:01                        Sort Items      ##=Current Choice
( 1) Patient Name
( 2) Accession
( 3) Revised Item
( 4) Revised By
( 5) Revised Date/Time

Enter choice or '-'choice to remove--
                                end select(NL)

```

The sorts are defined as follows.

- Patient Name: the patient's last name is the primary sort. Names sort in last name alphabetical order. The word Name displays in the field.
- Accession: chronological accessions is the primary sort. Alphabetical patient last names is the secondary sort. The word Accession displays in the field.
- Revised Item: if this option is chosen the following prompt may display. The prompt is dependent on what is chosen in the Revised Item field. If one item is chosen in the Revised Item field and *Revised Item* is chosen in this field then the sort defaults to *Name*. The following prompt displays if the more than one item is chosen:

Choose (S)pecimen, (M)odifier, (C)ollection D/T, Collector (I)D, or (A)ccession Comment-

Whatever letter is chosen it's item equivalent serves as the primary sort. Alphabetical patient last names is the secondary sort. The item description displays in the field (i.e.) *Name, Specimen, Modifier, Collection D/T, Collector ID, Accn Comment*.

- Revised By: last names of the persons who have revised accession level information are the primary sort. Alphabetical patient last names is the secondary sort. The phrase *Revised By* displays in the field.
- Revised Date/Time: the date/time of revised accession level information is the primary sort. Alphabetical patient last names is the secondary sort. The phrase *Revised D/T* displays in the field.

7. NUMBER OF COPIES (1-N-O)

The number of copies of the report that can print is as few as one and as many as nine. The following prompt displays when the field is accessed. The default is one. If the field is not accessed the report automatically prints only once. The field does not accept a two digit number.

Number of copies [1]--

8. DEFAULT PRINTER (TABLE LOOKUP-R)

This field displays the port number and description of the default printer for this report. If the Default Printer field is accessed a list of defined alternate printers display. This field uses standard printer selection techniques. The printer report used is the General Reports Wide printer report (LGW).

After all fields are completed the following prompt displays.

Accept this screen? (Y/N) [Y]--

If **Y**, the default response, is entered, the following message displays.

Revise Order Information Report Printing!

If **N** is entered, the prompt returns to the following prompt.

Enter field number or '/' starting field number--

The user may then access one of the fields on the screen to edit. If all fields are completed and ENTER pressed at the prompt, *Enter field number or '/' starting field number-*, the following prompt displays.

Accept this screen? (Y/N) [Y]--

If **Y** is entered, the following message displays.

Revise Order Information Report Printing!

Impact

Once you accept this screen, the system:

- Displays *Revise Order Information Report Printing!* on the screen
- Prints the Revise Order Information Report at the printer you specified in the Printer selection field
- Returns you to the Revise Order Audit/Information menu.

Output

This report prints the requested Revise Order information. The information that prints on the report comes from the patient's accession record. Therefore, if you sort by a revised item such as specimen type, and select all revised items to print on the report, if the patient does not have a revised specimen type, but does have other revised items, the entry prints on the report based on the specimen type in the patient's accession record. The report may seem to print out of order because no specimen type is listed on the report. When sorting by a revised item, it may be advisable to only select that item in the Revised Item field to be included on the report.

REPORT HEADER

LINE 1

FACILITY

The name of the facility prints based on the selection made in the Facility field. This item is centered.

PRINTED

Prints the date and time the report was generated. Item is left justified.

LINE 2

DEPARTMENT

The department name prints and is centered.

PAGE

The page number prints right justified.

LINE 3

The name of the report, Revise Order Audit Report, prints centered.

LINE 4

This line prints the beginning and end dates for the report. Item is centered.

SORT

This field prints the items chosen as the sort. This item is left justified. The following prints:

- Name
- Accession
- Revised Item
- Revised By
- Revised D/T

REVISED ITEM

This field prints the revised item(s) chosen to print. If a single item was chosen the item's description prints. If multiple items were chosen *Multiple* prints and if all items were chosen *All* prints. This item is right justified.

REPORT BODY HEADER**LINE 6****PATIENT NAME**

This line prints the patient's name Last, First MI. up to 30 characters. This item is left justified.

UNIT #

Patient's unit number for the selected facility, up to 11 characters.

ACCOUNT #

Patient's account number, up to 11 characters. Only the oldest account selected prints on the header of the report if multiple accounts are selected. If information for a particular account is needed, then only that account should be selected when a single patient is indicated.

TEST

Test name and code, up to 5 characters for the code, a space and up to 20 characters for the test description.

ACCN #

Patient accession number, up to 10 characters.

LINE 7**REVISED ITEM**

The accession level item edited (revised item's description), up to 20 characters.

BEFORE REVISION

The value of the revised item at the time edits were made, up to 39 characters for each revised item.

AFTER REVISION

The values of the revised item after any edits were made. All edited versions print, up to 39 characters for each revised item.

REVISED BY

This is the name of the person who made any revisions to any accession level item. Format is Last, First MI. Up to 20 characters.

EDIT D/T

This is the initial reported date and time or the date and time of subsequent revisions, up to 13 characters.

NOTE: Each Before/After version and associated information will print on a separate line.

REPORT FOOTER

The report prints *End of Report* at the bottom of the last page of the Revise Order Information Report.

The report prints *Continued* at the bottom of page one and each subsequent page until the end of the report.

If there is no data available for the items chosen, the report prints in the center:

No report data for selected criteria!

Figure 3.2 Revise Order Audit Report

Aug 19, 2003 1425			Model Hospital A Laboratory		Page 1	
Sort: Name			Revise Order Audit Report			
			From: 07/22/03 To: 07/24/03		Revised Item:Collection Date/Time	
Patient Name	Unit #	Account #	Test	Revised By	Accession	
Revised Item	Before Revision	After Revision			Edit D/T	

Patient, One	A000003577	A020070003	1005 Amikacin, Peak		3191	
Collection Date/Time	07/22/03 1535	07/21/03 1338	2090 CBC	Jones.Susie	3191	07/24/03 071
Collection Date/Time	07/22/03 1535	07/21/03 1338	1475 Glucose	Jones.Susie	3191	07/24/03 0714
Collection Date/Time	07/22/03 1535	07/21/03 1338	7390 Urinalysis	Jones.Susie	3192	07/24/03 0714
Collection Date/Time	07/22/03 1535	07/21/03 1339		Jones.Susie		07/24/03 0714
Test, Michael A	A000006987	A020070258	73090 Urinalysis		3294	
Collection Date/Time	07/22/03 1658	07/21/03 0923		Smith, Jamie		07/23/03 0800
End of Report						

Order Cancellation Request Processing

The following functions are performed during the processing of an order cancellation request received from the reference lab:

- The order cancellation request transaction is received from the reference lab.
- An error is filed to the interface audit and the order cancellation request is not processed.
- An order cancellation notification is filed to interface audit.
- The outgoing and incoming transaction record information is captured in the interface audit.
- Order cancellation and credit processing for order cancellation requests require additional evaluation by laboratory personnel and are performed by laboratory personnel.

NOTE: Order cancellation requests originating in STAR Laboratory are not transmitted to the reference lab through the Reference Lab Interface. The reference lab is notified by phone when an Order Cancellation request is generated on STAR Laboratory for a test order transmitted to the reference lab.

Result Processing

When test results are received from the reference lab, the following conditions apply:

- If the test is transmitted from the reference lab, normal range information and result flagging (H - High, L - Low, A - Abnormal and P - Panic) are included in the result transaction.
- If the test cross-reference does not exist for each test code, test results transmitted from the reference lab cannot be filed on STAR Laboratory. An error is filed to the interface audit.
- If the result cross-reference does not exist for each test result, test results transmitted from the reference lab cannot be filed on STAR Laboratory. An error is filed to the interface audit.
- If the first result date and time has not been set, the resulting date and time is filed to the STAR Laboratory Patient Inquiry tracking audit.
- If the test processing has been performed by a lab other than the reference lab, the performing laboratory information is included in the result transaction. The reference lab can transmit the performing lab results by including the results in either a distinct or common area of the result transaction.

- The outgoing and incoming transaction record information is filed to the interface audit.

NOTE: The performing laboratory can be transmitted by the reference lab in a distinct segment of the result transaction or be included in the comment segment of the result transaction.

REF LAB REVIEW QUEUE REPORTING

The Ref Lab Review Queue Reporting processor enables you to view reports containing test results transmitted from the Reference Lab Interface. Test results received from the reference lab are resorted into the result component order defined for the sendout-interface test code on STAR Laboratory and are stored in the result file. The test status changes to Partial. The test is placed into a Reference Lab Review Queue, based on the test file information.

When you review and accept the test, the test status changes to Done. The test is removed from the Review Queue and Incomplete Work Lists. Inclusion of the test on the Incomplete Worklist is determined by the test level flag setting. In addition, the Primary Report is printed, updated test information is displayed in Patient Inquiry, and results are filed to the Cumulative and Summary Reports and networked to STAR Patient Care.

NOTE: The following result components are required on each sendout interface test to be resultated using the Reference Lab Interface:

- *Reference Lab Comments, Multi-Line Normals*
A result component defined with special processing Word Proc.-Reference Lab. Multi-line normals, precanned or free text comments transmitted in the result transaction are filed automatically to this component. These results display and print in STAR Laboratory as word processing text.
- *Reviewed By*
A result component is defined in the Results and Normals builder as required with special processing auto Fill ID Required or auto Fill ID is required on each sendout-interface test resultated using the Reference Lab Interface. In addition, this result component is identified in the Review Queue builder as the field to be filled in upon release from the queue. Using the batch release function, the name of the person who performs the batch release processing automatically files into this field. The system disregards any other special processing associated with this field.

When sendout-interface test results are reviewed using the Ref Lab Review Queue Reporting processor, the following conditions apply:

- Test results received from the reference lab are resorted into the result order defined for the test code on STAR Laboratory and stored in the Result file.

- As test results are processed, the test status changes to Partial and the test is placed into the designated review queue.
- Partial to Partial Correction Logic processing is not applicable for sendout-interface tests. For a test in a Partial status, only results flagged as corrected by the reference lab are filed as corrected on STAR Laboratory.
- Results transmitted from the Reference Lab for result components on a test in a Done status are filed as corrected results on STAR Laboratory. In addition, if comments are included in the corrected result transaction, the word processing component is flagged as corrected on STAR Laboratory. As corrected test results are processed, the test status changes to Partial and the test is requeued to the designated reference lab review queue.
- Results transmitted from the Reference Lab for result components on a test in a Done status and defined as optional external are filed as addendum results on STAR Laboratory. As addendum results are processed, the test status changes to Partial and the test is requeued to the designated reference lab review queue.
- The batch release functionality is not designed to be used for tests with tiered review queues. Sequential release processing should be used for tests with tiered queues.
- The Default for Review Queue Reporting Accept Question flag defined in the Report Queue Flag builder does not apply to the batch release process.
- Reference lab review queues are not affected by the sectionlevel batch release flag.

Select Ref Lab ReviewQueue Reporting to perform this function. The Ref Lab Review Queue Reporting function is an option available as a section-level function that can be added to any section menu. In the following example, this option was selected from the Send Outs section menu.

General Hospital Send Outs Processor	
Mon Jun 12, 1995 04:49 pm	
Send Outs Input Options	
Option No.	Option
1	Patient Inquiry
2	Accessioning
3	Specimen Transfer
4	Result Reporting
5	Review Queue Reporting
6	Incomplete Work
7	Quality Control/Workload
8	Ref Lab Review Queue Reporting

Enter option number--

When you select the Ref Lab Review Queue Reporting option, the following prompt displays:

Enter sendout lab code, first letters '-' or '-' for table--

You can enter the sendout lab code or a hyphen (-) to select a code from the table display of sendout laboratories. Once you select a code, the system keeps it in memory until this function is exited.

If the sendout lab selected does not have a reference lab cross-reference defined in the STAR Lab Reference Lab Interface Parameters processor, the following error message displays:

ASTM Reference Lab Interface parameters not defined!

When you select a sendout laboratory, the following screen displays with a list of the review queues. Only reference lab review queues with existing test results to be reviewed display on this screen.

For the purpose of this illustration, Quest was selected.

General Hospital Send Outs Ref Lab Review Queue Reporting Processor	
Mon Jun 12, 1995 04:50 pm	
Quest Review Queue Options:	Page:01
(1) BLOOD BANK REVIEW	[1]
(2) CHEMISTRY REVIEW	[14]
(3) CHEM SUPERVISOR REVIEW	[2]
(4) HEMATOLOGY REVIEW	[10]
(5) HEME SUPERVISOR REVIEW	[3]
(6) GENERAL REVIEW	[15]
(7) PATHOLOGIST REVIEW	[1]
(8) SPECIAL CHEMISTRY REVIEW	[4]
(9) SPECIAL HEMATOLOGY REVIEW	[5]
(10) TOXICOLOGY REVIEW	[2]
 Enter choice--	

The following prompt displays:

Enter choice--

Select the desired review queue. At this point, you can access either the Batch Release or Sequential Release function for processing accessions/tests in the queue.

Access to these functions depends on the batch release queue flag setting you defined in the Reference Lab Interface Maintenance processor for the review queue selected.

If the reference lab review queue selected is processing either a batch or sequential release, the following error message displays:

REVIEW QUEUE currently in use. Please try later!

The name of the reference lab review queue selected replaces the REVIEW QUEUE in this message.

Batch Release

When you select a reference lab review queue defined to allow batch release processing, the following prompt displays:

Initiate batch (B) or sequential (S) release from review queue [B] --

Enter **B** or press the ENTER key to initiate batch release processing.

NOTE: When using the batch release process, you will not review individual sendout-interface test using the STAR Laboratory result review functionality. Prior to batch release, develop procedures that will ensure compliance with all result review regulations applicable for your laboratory.

When you select the batch processing option, the following Review Queue screen displays listing all reports contained in the queue. For this illustration, the Chemistry Review option was selected.

General Hospital Send Outs Ref Lab Review Queue Reporting Processor				
Sun May 12, 1996 04:50 pm				
Quest Review Queue: CHEMISTRY REVIEW				
Release?	Name	Accn#	Test	Specimen
	RICHARDS, MARY	1629160	ANA PROFILE	Blood
	MOORE, ROBERT	1631104	ANGIOTENSIN-1-C	Blood
	HARRIS, WILLIAM	1628360	BETA-2-MICROGLO	Blood
	JONES, MARY J	1626881	ESTRADIOL	Blood
	LEE, SHARON	1631191	GLYCOSYLATED HE	Blood
	HALL, JANE	1631771	GLYCOSYLATED HE	Blood
	PETERS, BRIAN	1629433	HEPATITIS PROFI	Blood
	GREEN, SUSAN	1629532	HEPATITIS PROFI	Blood
	MARTINEZ, JAMES	1629786	HEPATITIS PROFI	Blood
	NICKS, RICHARD	1630023	HEPATITIS PROFI	Blood
	WHITE, ANGELA	1631511	OXALATE URINE	Urine
	ERICKSON, STEVE	1630296	PROTEIN C & S	Blood
	WHITE, ANGELA	1631511	URIC ACID URINE	Urine
	BROWN, EVE	1631177	VITAMIN D25 HYD	Blood

Release option from batch? (Y?N) --
F1 Prev Page F2 Next Page F6 Reset F7 Exit?

Screen Layout

The header information in the first two lines is standard. On the third line, the description of the reference lab and review queue selected displays. The primary sort for the report display is test code in ASCII sequence; the secondary sort is accession number in ASCII sequence. The report uses a scrolling screen format with five columns of data. For each report, the following information is provided:

- Tests available for batch release
- Patient name
- Accession number
- Test name
- Specimen type

Screen Body

RELEASE? (SPECIAL FORMAT -O)

This field determines which accessions/test can be released from the selected reference lab review queue using batch release processing. The system displays the following prompt:

Release option from batch (Y/N) --

To mark accessions/test for batch release, enter a **Y** in the *Release ?* column. If you enter **N**, the column is left blank. The word Yes displays in the column. Use the down arrow key to quickly move down the page, marking all items that are to be released.

If you enter any character other than a **Y** or **N**, the system displays the following error message.

Error: Invalid format!

NOTE: If the test selected for batch release has security crosslinks defined and the person performing the batch release process does not have the required security to release the test, it will not be released.

NAME (DISPLAY ONLY)

This field displays the patient name. This field has a 22-character display limit.

ACCN# (DISPLAY ONLY)

This field displays the accession number. This field has a 10-character display limit.

TEST (DISPLAY ONLY)

This field displays the sendout-interface test. This field has a 22-character display limit.

SPECIMEN (DISPLAY ONLY)

This field displays the specimen. This field has a 10-character display limit.

When you access the scrolling screen, the system displays the following message at the bottom of the screen:

F1 Prev Page F2 Next Page F6 Reset F7 Exit?

NOTE: For more information on function keys and scrolling screens, refer to Chapter 4: Information Entry Techniques in the *General Information Volume of the STAR Laboratory Reference Guide*.

If no tests are selected for the batch release, press **F7** to exit the scrolling screen. The system redisplay the screen listing the review queue options.

After you select all the appropriate options, press **F7** to exit the scrolling screen. The system displays the following prompt:

Accept this screen? (Y/N) [Y]--

Press the ENTER key or enter **Y** to accept the batch. The following message displays:

Batch processed started!

After this message displays, the system redisplay the screen listing the review queue options.

NOTE: Batch release processing of the selected review queue is running in the system background. If a test selected for batch release has security crosslinks defined and the person performing the batch release process does not have the required security to release the test, it will not be released.

NOTE: The counter for the selected review queue may not reflect the actual number of reports remaining in this queue until after the batch processing is completed.

Impact

After you accept the batch, all items marked **Y** are released from the queue. The name of the person performing the batch release displays in the appropriate field in the Review Queue Maintenance processor. When batch release processing is complete, the test status changes to Done the test is removed from the Review Queue and Incomplete Work Lists.

In addition, the Primary report is printed, updated test information is displayed in Patient Inquiry, and results are filed to the Cumulative and Summary reports then networked to STAR Patient Care.

NOTE: If the Reference Interface is down, follow your institution's documented manual downtime procedures to report reference lab results. Do not manually enter sendout-interface test results on STAR Laboratory. Queue the results on the reference lab system and transmit them when the interface becomes active.

Sequential Release

When you select a reference lab review queue defined to allow batch release processing, the following prompt displays:

Initiate batch (B) or sequential (S) release from review queue [B] --

Enter **S** at the prompt to perform sequential release processing. The following Review Queue screen displays listing all reports contained in the queue. For this illustration, the Quest Review was selected.

NOTE: The following screen also displays when you select a queue that does not allow batch release processing.

General Hospital Send Outs Ref Lab Review Queue Reporting Processor					
Mon Jun 12, 1995 04:50 pm					
Quest Review Queue: CHEMISTRY REVIEW					
Page:01			##=Current Choices		
Opt	Name	Accn#	Test	Specimen	Accn Time
(1)	RICHARDS, MARY	1629160	ANA PROFILE	Blood	06/05 1415
(2)	MOORE, ROBERT	1631104	ANGIOTENSIN-1-C	Blood	06/08 0925
(3)	HARRIS, WILLIAM	1628360	BETA-2-MICROGLO	Blood	06/04 1003
(4)	JONES, MARY J	1626881	ESTRADIOL	Blood	06/04 1134
(5)	LEE, SHARON	1631191	GLYCOSYLATED HE	Blood	06/08 0934
(6)	HALL, JANE	1631771	GLYCOSYLATED HE	Blood	06/08 1206
(7)	PETERS, BRIAN	1629433	HEPATITIS PROFI	Blood	06/05 1831
(8)	GREEN, SUSAN	1629532	HEPATITIS PROFI	Blood	06/05 2015
(9)	MARTINEZ, JAMES	1629786	HEPATITIS PROFI	Blood	06/06 0830
(10)	NICKS, RICHARD	1630023	HEPATITIS PROFI	Blood	06/06 1623
(11)	WHITE, ANGELA	1631511	OXALATE URINE	Urine	06/08 0935
(12)	ERICKSON, STEVE	1630296	PROTEIN C & S	Blood	05/27 1033
(13)	WHITE, ANGELA	1631511	URIC ACID URINE	Urine	05/08 0935
(14)	BROWN, EVE	1631177	VITAMIN D25 HYD	Blood	05/08 0933

Enter options to review(e.g. 1,7,5-9) or '-'option to remove--
end selection(NL)

The following prompt displays:

*Enter options to review (e.g. 1,7,5-9) or '-'option to remove-
end selection(NL)*

You can select one or more report options to review. The screen displays in ASCII sequence by test code and accession.

NOTE: The system has a limit on the maximum number of tests you can select when using the multiple selection option from the table display. The following system error message displays:

Maximum # of entries exceeded! Last valid entry is ##.

When you select the option(s) to review, the following screen displays the results reported for the first option selected.

General Hospital Send Outs Ref Lab Review Queue Reporting Processor							
AC#:1626881		ESTRADIOL		Thu Jan 15, 2009 09:04 am			
Unit #	Name	Sex	Birthdate	Room	Physician	Srv	ICD Status
A000000025	JONES,MARY J	F	01/01/1969	100-01	ADAMS,CARNES	MED 10	I/P 522
(1) Estradiol(pg/ : 23							
(2)*Quest C : 08/10 1043							
(3)*Comment :							
(4)^Lab Comment :							
(5)^Review Queue :							
(6) Released By :							

Result processing at this point follows the current functionality for entering and reviewing results. For detailed information, refer to Chapter 6: Test Processing in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

Impact

After you accept the batch, all items marked **Y** are released from the queue. The name of the person performing the batch release displays in the appropriate field in the Review Queue Maintenance processor. When batch release processing is complete, the test is removed from the Review Queue and Incomplete Work lists and the status changes to Done.

In addition, the Primary report is printed, updated test information is displayed in Patient Inquiry, and results are filed to the Cumulative and Summary reports then networked to STAR Patient Care.

NOTE: If the Reference Interface is down, reporting of reference lab results should follow documented manual downtime procedures as determined by your institution. Results for tests processed as sendout-interface tests should not be manually entered on STAR Laboratory. These results will be queued on the reference lab system and transmitted when the interface becomes active.

EDITING A WORD PROCESSING RESULT

A result component on each sendout-interface test is defined as special processing Word Proc.-Reference Lab. Pre-canned or free text comments transmitted in the result transaction will automatically be filed to this component. These results display and print in STAR Laboratory as word processing text.

If you select the result component defined as Word Proc.-Reference Lab for editing, the following screen displays. In this illustration, the Quest Comment was selected.

```
General Hospital Chemistry Ref Lab Review Queue Reporting Processor
AC#:1287      CATECHOLAMINES, URINE, FRACTION      Thu Jan 15, 2009 09:04 am
Unit #      Name      Sex Birthdate Room Physician Srv ICD Status
A000000025 JONES,MARY J      F 01/01/1969 100-01 ADAMS,CARNES MED 10 I/P 522
```

```
Result: *Quest Ref Lab Comment Specimen: Urine 24 Hr
```

```
Enter Std Result Text code, first letters`-` for table--
Create new(N) document
```

NOTE: Since a comment can be associated with each result transmitted from the reference lab, the following text displays before each result component comment:

**** *Comments and Normals for Component RESULT COMPONENT DESCRIPTION*

The system follows the current functionality for editing word processing results. For additional information on word processing options, refer to Chapter 6: Test Processing in the *General Application Volume I* of the *STAR Laboratory Reference Guide*.

PATIENT INQUIRY

STAR Laboratory tracks each step of test processing from order entry to result reporting and maintains dates, times, and identification of personnel interacting with the system. This information is available for viewing in the Inquiry processor which consists of Patient Inquiry and Order Inquiry. No data-generating transactions are possible through the Inquiry processor.

Patient Inquiry can be used as described in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*. Certain information presented within the Patient Inquiry processors is specific to sendout-interface tests. Only this information is covered in this document.

Patient Inquiry processors are usually located on the main menu and all section menus:

General Hospital Patient Inquiry Processor	
Mon Jun 12, 1995 10:41 am	
Laboratory Input Options	
Option No.	Option
1	Patient Inquiry
2	Order Inquiry
3	Administration
4	Maintenance Functions
5	Front Office
6	Central Processing
7	Chemistry
8	Hematology
9	Microbiology
10	Pathology
11	Send Outs
12	Serology
13	Urinalysis
14	Blood Bank

Enter option number--

This screen is an example of the Main menu screen. The location of the processors is user-defined and can differ from the above example screen. Select the Patient Inquiry option.

The first step in using the Patient Inquiry processor is to identify the desired patient for review. Do this at the following prompt:

Enter '&'unit #, '*'account #, accession # or '['case #--
patient name (Last,First M), '-SS# 'or '=' for current

Identify the patient, using one of the patient lookup routines described under Accessing Patient Information in Chapter 4: Information Entry Techniques in the *General Information Volume I* of the *STAR Laboratory Reference Guide*.

The Patient Inquiry processor contains information about the status of the specimen(s) and the entire accession for the patient selected. The following information is included:

- Test status
- Result information
- Test-related information

Test Status

The current test status indicates the stage of completion of the procedure and the information available for review. The following statuses are specific to sendout-interface tests:

- Transmit

This status indicates that test orders have been transmitted from STAR Laboratory to the reference lab through the Reference Lab Interface.

- Ref Lab

This status indicates that the specimen has been received in the reference laboratory. When the specimen is received, an acknowledgement message is transmitted to STAR Laboratory through the Reference Lab Interface.

For detailed information, refer to Test Status in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

Result Information

When you select a test to review, a screen similar to the following one displays. For all tests, you can review detailed general, tracking, or comment information.

General Hospital Patient Inquiry Processor					
					Thu Jan 15, 2009 09:04 am
Unit #	Name	Sex	Birthdate	Room	Physician
A000000025	JONES, MARY J	F	01/01/1969	100-01	*ADAMS, CARNES
Acct #: A9304600001					Srv ICD Status
Accession #: 1626881					ESTRADIOL
Specimen: Blood					Collected: 05/04/95 1134
Result Name		Results			
Estradiol (pg/ml):		23			
Quest Comments:		11/03 1446			
Released By:		J F SMITH			
Referred to: Quest					
Enter option--					
* = Options					

The test status determines the amount of information available. The following information is provided on the screen: patient demographics, account number, accession number, test name, specimen type, and collection date and time.

NOTE: Normal range values and panic result flagging are included in Patient Inquiry for sendout-interface tests only if this information is transmitted with the test results from the reference lab as a part of the result transaction.

In a multidepartment environment, if the current department is not the performing department, the following message displays:

Referred to: PERFORMING DEPARTMENT

PERFORMING DEPARTMENT is replaced with the name of the department defined as the performing laboratory at the time of specimen processing.

If the test is defined as a sendout or sendout-interface, the following message displays on the screen:

Referred to: PERFORMING LABORATORY

PERFORMING LABORATORY is replaced with the name of the laboratory defined as the sendout laboratory at the time of specimen processing.

If a test defined as a sendout-interface has been performed by a lab other than the reference laboratory indicated, the performing laboratory is transmitted in the result transaction. The following message displays:

Performed by: PERFORMING LABORATORY

NOTE: The performing laboratory can be included in the Patient Inquiry display for sendout-interface tests only if this information is transmitted by the reference lab in a distinct segment of the result transaction. If the performing laboratory is transmitted as part of the comment segment of the result transaction, this information displays and prints on STAR Laboratory as part of the comment.

The following prompt displays:

Enter option--

Enter an asterisk (*) to display the additional options available for a test in Patient Inquiry. The system collects information during each step in test processing from order entry to test resulting. When you enter an asterisk (*), the system displays the following Help screen of options that are specific to the test type:

General Hospital Patient Inquiry Processor						
						Thu Jan 15, 2009 09:04 am
Unit #	Name	Sex	Birthdate	Room	Physician	Srv ICD Status
A000000025	JONES,MARY J	F	01/01/1969	100-01	*ADAMS,CARNES	MED 10 I/P 522
Acct #: A9304600001						
Accession #:1626881				ESTRADIOL		
Specimen: Blood				Collected: 05/04/95 1134		
B - Blood Product Avail R - Check Five by Result						
F - Check Five by Test K - Comments						
G - General Information H - History Cardfile						
M - MD Copy Audit A - Print Long Report						
P - Print Primary S - Print Summary						
L - Test Lookup T - Tracking						
V - View Report VP - View Ref Lab Prompt						
Enter option--						
* = Options						

Certain information presented when selecting option(s) on this screen is specific to sendout-interface tests. Only this information is covered in the following sections of this document. For detailed information, refer to Examination of Test-Related Information in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

Test-Related Information

The system collects a large amount of detailed information during each step in test processing from order entry to test resulting. The Patient Inquiry processor breaks down this information into the following groups:

- General Information
- Tracking Information
- Comments

GENERAL INFORMATION

The following screen displays when you enter **G**, for General Information, on the preceding screen:

General Hospital Patient Inquiry Processor					
					Thu Jan 15, 2009 09:04 am
Unit #	Name	Sex	Birthdate	Room	Physician
A000000025	JONES,MARY J	F	01/01/1969	100-01	*ADAMS,CARNES
Acct #: A9304600001					Srv ICD Status
Accession #:1626881					ESTRADIOL
Specimen: Blood			Collected: 05/04/95 1134		
Accession Information					
1 Test Code	2 Number Pools	3 Order Info			
6235		1280/15530/011399988701/6;ASAP/A/			
4 Ordering Location	5 Order Category	6 Ordering Physician			
LAA-LAB1-0	ASAP	ADAMS,CARNES			
7 Order Diagnosis	8 Performing Dept	9 Current Location of Spec			
540.9-*ACUTE APPENDI	Laboratory	Laboratory			
10 Pt. type at Order	11 Sendout Req #	12 Sendout/Transfer Lab			
I/P		Quest			
13 Archive Date	14 ABB Request#				
Press NL--					

Field Explanations

NOTE: The Sendout/Transfer Lab field is the only field on this screen that displays specific information for sendout-interface tests. For detailed information, refer to Examination of Test-Related Information in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

12. SENDOUT/TRANSFER LAB (DISPLAY ONLY)

This field contains the name of the sendout/interdepartment laboratory defined as the sendout laboratory at the time of specimen processing. If the test is processed using the Reference Lab Interface and was performed by a lab other than the reference laboratory, the performing laboratory is transmitted in the result transaction. The system updates this field to contain the performing laboratory when it receives this information from the reference lab.

TRACKING INFORMATION

You can enter **T**, for Tracking, to trace the steps in specimen processing. The following screen contains dates, times and names for the complete history of the specimen. This information is valuable for locating a missing specimen and for providing critical data when the turnaround time of a specimen is in question.

When you enter **T** on the screen that provides additional options for a test in Patient Inquiry, the following screen displays:

General Hospital Administration Patient Inquiry Processor			
Thu Jan 15, 2009 09:04 am			
Unit #	Name	Sex Birthdate	Room Physician Srv ICD Status
A000002286	CMS,PATIENT	F 08/24/1962	2129-02 DOCTOR,ADMITT MED 10
OPO 105			
Acct #: A0115700001			
Accession # 2616 SODIUM			
Specimen: Blood-mod for w		Collected: 09/04/01 1042	
Accession Tracking Information			
1 Order Time	2 Order Name	3 Req Coll. Time	4 Auto Inst Rel
09/04/01 1102	Stephenson,Jo	09/04/01 1054	N/A
5 Collected	6 Collect Name	7 Accessioned	8 Accn Name
09/04/01 1042	Stephenson,Jo	09/04/01 1102	Stephenson,Jo
9 Transported	10 Trans Name	11 Trans Recv	12 Trans Rec Name
13 Send Out	14 SO Name	15 1st Partial	16 1st Partial Na
17 Completed	18 Completed By	19 Reviewed	20 Review Name
21 Cancelled	22 Cancel Name	23 Credited	24 Credit Name
25 Charged	26 Reject Accn #	27 Nurse collect	28 Batch Long Rpt
09/04/01 1102		No	
Enter option--			
* = Options			

NOTE: The performing laboratory can be included in the Patient Inquiry Tracking information only if this information is transmitted by the reference lab in a distinct segment of the result transaction. If the performing laboratory is transmitted as part of the comment segment of the result transaction, this information displays and prints on STAR Laboratory as part of the comment.

Field Explanations

NOTE: For detailed information on fields not explained in this section, refer to Tracking Information in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

1. ORDER TIME (DISPLAY ONLY)

This field contains the date and time the order was entered. For add-on test orders transmitted from the reference lab using the STAR Laboratory Reference Lab Interface, this field contains the date/time the order request was transmitted.

2. ORDER NAME (DISPLAY ONLY)

This field displays the name of the person who entered the order on STAR Laboratory, *STAR Patient Care* if the order was placed from STAR Patient Care on a network system, or *Interface* if the order was placed on an interfaced HIS (a hospital information system other than STAR Patient Care).

For add-on test orders transmitted from the reference lab using the STAR Laboratory Reference Lab Interface, this field displays the name of the reference laboratory.

10. TRANS RECV (DISPLAY ONLY)

In a multidepartment environment, this field contains the date and time the specimen was received in the performing department and processed, using the Interdepartment Check-In processor.

For tests defined with a reference type of sendout-interface, this field contains the date and time the acknowledgement transaction of the specimen receipt in the reference lab was received by STAR Laboratory.

11. TRANS REC NAME (DISPLAY ONLY)

This field contains the name of the person who checked in the specimen at the performing department, using the Interdepartment Check-In processor.

For tests defined with a reference type of sendout-interface, this field contains the name of the reference laboratory transmitting the acknowledgement of the specimen receipt in the lab.

12. SEND OUT (DISPLAY ONLY)

This field contains the date and time the specimen was processed for transport to the reference laboratory for tests defined with a reference type of sendout.

For tests defined with a reference type of sendout-interface, this field contains the date and time the order transaction was transmitted to the reference laboratory.

13. SO NAME (DISPLAY ONLY)

This field contains the name of the person who processed the specimen for transfer to the reference laboratory, using the Specimen Transfer processors.

14. 1ST PARTIAL (DISPLAY ONLY)

This field contains the date and time results were first entered for the test.

For tests defined with a reference type of sendout-interface, this field contains the date and time the first result transaction for the test was retrieved from the reference lab, using the STAR Laboratory Reference Lab Interface.

15. 1ST PARTIAL NAME (DISPLAY ONLY)

This field contains the name of the person who first entered results for the test.

For tests defined with a reference type of sendout-interface, this field contains the name of the reference laboratory transmitting the results for the test to STAR Laboratory.

COMMENT INFORMATION

Comment Information displays any special comments entered at order entry, accessioning, transporting, sendout, review, or cancellation. When you enter **K**, for Comments, on the screen that provides additional options for a test in Patient Inquiry, the following screen displays:

General Hospital Patient Inquiry Processor						
						Thu Jan 15, 2009 09:04 am
Unit #	Name	Sex	Birthdate	Room	Physician	Srv ICD Status
A000000025	JONES, MARY J	F	01/01/1969	100-01	*ADAMS, CARNES	MED 10 I/P 522
Acct #: A9304600001						
Accession #: 1626881 ESTRADIOL						
Specimen: Blood			Collected: 05/04/95 1134			
Accession Comments						
1 Order Comment		2 Uncollected Reason				
3 Prompt		4 Accession Comment				
5 Prompt Response		6 Send Out Comment				
7 Cancel Reason		8 Review Comment				
9 Credit Reason		10 Transport Comment				
11 Dup/Conf Override Reason		12 Authorizing ID				
13 Duplicates/Conflicts						
Enter option--						
* = Options						

Field Explanations

1. ORDER COMMENT (DISPLAY ONLY)

This field contains the comment entered at order entry. When an add-on order request received from the reference lab is processed on STAR Laboratory, the following comment displays in this field:

Ordered by REFERENCE LAB DESCRIPTION.

This comment indicates that the add-on order request transmitted from the reference lab has met all the hospital laboratory requirements and has been processed on STAR Laboratory.

The Order Comment field is the only field on this screen that displays specific information for sendout-interface tests. For detailed information, refer to Comment Information in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

VIEWING WORD PROCESSING RESULTS

Multi-line normals, precanned, and free text comments are transmitted by the reference lab and filed to the result component defined with the special processing option Word Proc.-Reference Lab. This information displays in Patient Inquiry as word processing text.

You can view this information in Patient Inquiry by selecting the View Report option. For detailed information, refer to View Report Option in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

VIEW REF LAB PROMPT

The View Ref Lab Prompt option enables you to view Reference Lab Prompt/Response information associated with a sendout-interface test for a specific accession.

You can access this option in Patient Inquiry by selecting a sendout-interface test for a specific patient and then selecting VP (View Ref Lab Prompt) on the screen that provides additional options. This option is available under the following conditions:

- The test selected is a sendout-interface test type that has been cross-referenced to a Reference Lab test.
- Reference Lab Prompt(s) have been defined and linked to the sendout-interface test code in the Ref Lab Prompt/Test processor.
- Specimen collection period, weight or volume information has been defined in the Interdepartment Referral/Sendout Labels processor for the sendout-interface test selected.
- The test is in a Spec Rec'd status or greater.

The following screen displays:

General Hospital Patient Inquiry Processor						
						Thu Jan 15, 2009 09:04 am
Unit #	Name	Sex	Birthdate	Room	Physician	Srv ICD Status
A000000025	JONES,MARY J	F	01/01/1969	100-01	*ADAMS,CARNES	MED 10 I/P 522
		Acct #: A9304600001				
		Accession # :1626881 ESTRADIOL				
Specimen: Blood				Collected: 05/04/95 1134		
View Ref Lab Prompt/Response & Specimen Collection Information						
Is Patient Fasting?				No		
List antibiotics patient receiving				Patient is not receiving antibiotics		
List patient medications				No additional medications		
F1Prev Page F2Next Page F7 Exit						

Beginning on the tenth line, a scrolling screen is used. The scrolling screen displays two columns of data. Information included on this screen is as follows:

COLLECTION PERIOD

The first column of data displays the heading *Collection Period*. The second column of data displays the number of hours that the specimen collection covers. This information displays only if the collection period was required for the test accessioned.

SPECIMEN VOLUME

The first column of data displays the heading *Specimen Volume*. The second column of data displays the volume of the specimen collected. This information displays only if the specimen volume was required for the test accessioned.

A specimen volume of up to 20 alphanumeric characters including punctuation can be displayed. If the specimen volume was required for the test selected, but specimen volume information has not been entered, the second column display is blank.

SPECIMEN WEIGHT

The first column of data displays the heading *Specimen Weight*. The second column of data displays the weight of the specimen collected. This information displays only if the specimen weight was required for the test accessioned.

A specimen weight of up to 20 alphanumeric characters including punctuation can be displayed. If the specimen weight was required for the test selected, but specimen volume information has not been entered, the second column display is blank.

REFERENCE LAB PROMPT

The first column of data displays the reference lab prompt(s) linked to the sendout-interface test accessioned. A prompt of up to 36 alphanumeric characters including punctuation can be displayed.

If a sendout-interface test code is linked to multiple reference lab prompts, the display order of the reference lab prompts follows the order in which the test was linked to the reference lab prompts, as defined in the STAR Lab Maintenance Functions Ref Lab Prompt/Test processor.

RESPONSE

The second column displays the response to the reference lab prompt displayed. A response of up to 36 alphanumeric characters including punctuation can be displayed. If a response has not been entered, the field display is blank.

The panel across the bottom of the screen displays the available function keys.

F1Prev Page F2Next Page F7 Exit

When you view reference lab prompt/response information that exceeds one page, you can page forward by pressing the F2 key or page backward by pressing the F1 key. When you finish reviewing the information, press the F7 key to exit the scrolling screen. The system redisplay the result information screen.

RESULTING TECHS

The Resulting Techs option provides an audit trail of the resulting tech and the date and time the result was reported for all resulted components on the test selected.

You can access this option in Patient Inquiry by selecting a sendout-interface test for a specific patient and then selecting RT (Resulting Tech) on the screen that provides additional options. This option is available when results have been entered for the test selected.

When you enter **RT** for the Resulting Techs option, the system displays the following screen:

General Hospital Patient Inquiry Processor						
						Thu Jan 15, 2009 09:04 am
Unit #	Name	Sex	Birthdate	Room	Physician	Srv ICD Status
A000000025	JONES, MARY J	F	01/01/1969	100-01	*ADAMS, CARNES	MED 10 I/P 522
		Acct #: A9304600001				
		Accession # 3823 ALPHA-1-FETOPROTEIN				
Specimen: Blood				Collected: 05/21/95 2008		
Result Name		Reported		Reported by		
Alpha-Fetoprotein		05/22/95 0833		Quest		
Quest Comment		05/22/95 0833		Quest		
Released By		05/22/95 0900		Smith, Janet F		
F1Prev Page F2Next Page F7 Exit						

The following information displays on the scrolling screen: the result name, resulting tech, and the date and time the result was reported. This resulting information displays only for components with external results.

Field Explanations

NOTE: For detailed information on fields not explained in this section, refer to Resulting Techs under Result Information in Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

REPORTED BY (DISPLAY ONLY)

The resulting tech displays next to the specific date and time the tech entered results for each external component. If the component is not corrected but has been changed multiple times, the last resulting tech name displays.

For tests defined with a reference type of sendout-interface, this field contains the name of the reference laboratory transmitting results to STAR Laboratory for the result component displayed.

PATIENT REPORTS

Patient Reports contain information about tests sent to the reference lab through the Reference Lab Interface and the effects on patient data. The affected reports include Horizontal/Vertical Cumulative Trend Reports, Long Reports, Patient Detail Reports, Primary Reports, and Summary Reports.

The following conditions apply to these reports:

- The reports includes multiline normals, precanned, and free text comments transmitted by the reference lab and filed as word processing results on STAR Laboratory Patient Reports. Since a comment can be associated with each result transmitted from the reference lab, the following text displays before each result component:

**** *Comments and Normals for Component* RESULT COMPONENT
DESCRIPTION

- The reports includes the performing laboratory when a test that has been sent to a reference lab has been performed at a different lab.

The performing laboratory can be included on the Patient Reports as a distinctive statement only if this information is transmitted by the reference lab in a distinct segment of the result transaction. If the performing laboratory is transmitted in the comment segment of the result transaction, this information displays and prints on STAR Laboratory as part of the comment.

- The reports reflects changes on corrected/addendum results received from the reference lab:
- Corrected results transmitted from the reference lab for tests in a Done status print as corrected results on STAR Laboratory Patient Reports.
- Results transmitted from the reference lab for result components on tests in a Done status and defined as *optional external* print as addendum results on STAR Laboratory Patient Reports.

NOTE: Normal range values and panic result flagging are included on the Patient Reports only if this information is transmitted with the test results from the reference lab as a part of the result transaction.

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INTRODUCTION

This appendix provides a guide for testing the STAR Reference Laboratory Interface between the STAR Laboratory base system and the client designated reference laboratory once the system has been built and the interface is active.

TESTING OBJECTIVES

The following testing objectives outline the changes to the STAR Laboratory system with the activation of the STAR Laboratory Reference Lab Interface:

Accession Processing

- Sendout-interface test(s) placed in sendout queue specific to the performing laboratory.
- Queue placement based on the default reference laboratory specified in Master Test file.
- Sendout-interface test(s) added to the Incomplete Worklist for the defined default section. Inclusion of the test on the Incomplete Worklist is determined by a test level flag.
- Sendout labels print automatically at accessioning, controlled by department level flag.
- Transfer labels print automatically at accessioning, controlled by department level flag.

REFERENCE LAB PROMPT/RESPONSE

- Addition of specimen collection weight or volume information as required by the reference lab as a prerequisite for the processing of specific sendout-interface test(s).
- Addition of patient or specimen information required by the reference lab as a prerequisite for the processing of specific sendout-interface test(s).
- Reference Lab Prompt/Response information displays in the Patient Inquiry.

Specimen Transfer

EDIT SENDOUT QUEUE

- Addition of appropriate error messages based on the reference type defined and the sendout lab selected when moving tests from one sendout queue to another.
- Addition of appropriate error messages based on the reference type defined and the reference lab selected when editing tests within a sendout queue.
- Display default and alternate printer information for sendout/transfer labels based on section-specific information, if defined.

- Addition of sendout/transfer comment to the Travel List.

SPECIMEN SENDOUT

- Display default and alternate printer information for sendout/transfer labels based on section-specific information, if defined.
- Display default and alternate printer information for the Travel List based on section specific information, if defined.
- Addition of sendout/transfer comment to the Travel List.
- Addition of specimen collection and reference lab prompt/response information to the Travel List.
- Ability to sort Travel List by specimen storage requirements, if defined.
- For sendout-interface test(s) - automatically dial up reference lab.
 - Transmit test order transactions to reference lab and receive queued test results from reference lab as a part of the same process.
 - Test status of Transmit, when order is transmitted to the reference lab.
 - Test status of Ref Lab, when specimen acknowledgement received from reference lab.
 - Transaction record information captured in the interface audit.

REVISE REF LAB PROMPT INFORMATION

- Ability to edit reference lab prompt response information.
- Ability to edit specimen weight or volume information.
- Editing of specimen collection and reference lab prompt information is limited to the following:
 - Sendout-interface tests in a *Spec Rec'd* status and from the ordering lab department.
 - Sendout-interface tests in a *Received* status and from the performing lab. (Limited to test defined as an interdepartment test in ordering department and a sendout-interface in performing department).
- Inclusion of edited reference lab prompt response and specimen weight/volume information on the Travel List Report and the View Ref Lab Prompt option in Patient Inquiry.

- Inclusion of edited reference lab prompt response and specimen collection information as part of the test order transaction to the designated reference lab.

START/STOP REF LAB INTERFACE

- Activate/Inactivate STAR Laboratory Reference Lab Interface.

MANUAL DIAL REFERENCE LAB INTERFACE

- Manually dial designated reference lab to receive queued results transmitted from the reference lab to STAR Laboratory, using the STAR Laboratory Reference Lab Interface.

INTERFACE AUDIT

- Ability to display/print transaction record information filed to the interface audit.
- Transaction record information for order requests transmitted from STAR Laboratory to the reference lab are filed to the interface audit.
- For each sendout-interface test, if the test cross reference does not exist, an order request cannot be transmitted to the reference lab. An error is filed to the interface audit.
- For each sendout-interface test, if result cross references do not exist, an order request cannot be transmitted to the reference lab. An error is filed to the interface audit.
- Transaction record information for add-on order requests transmitted from the reference lab to STAR Laboratory are filed to the interface audit.
- Transaction record information for Cancel Order requests transmitted from the reference lab to STAR Laboratory are filed to the interface audit.
- Transaction record information for test results transmitted from the reference lab to STAR Laboratory are filed to the interface audit.
- For each sendout-interface test, if the test cross reference does not exist, test results transmitted from the reference lab cannot be filed on STAR Laboratory. An error is filed to the interface audit.
- For each sendout-interface test, if the result cross reference does not exist, test results transmitted from the reference lab cannot be filed on STAR Laboratory. An error is filed to the interface audit.

Test Processing

ADD-ON ORDER REQUEST TRANSMITTED FROM REFERENCE LAB

If add-on test fails a series of predefined system checks on STAR Laboratory, the following processing occurs:

- Transaction record information is captured in the interface audit.
- An error is filed to the interface audit and the add-on order is not processed.
- An add-on order notification prints on the interface error log printer.

If the add-on order passes a series of predefined system checks, the add-on order is processed according to the existing STAR Laboratory add-on order process with the exception of charging:

- Add-on order information is added to the original accession and displays in the Patient Inquiry tracking audit. The add-on order test status is filed as *Ref Lab*.
- An add-on order can be added to the Incomplete Work file for the defined default section. Inclusion of the test on Incomplete Worklist is determined by the test level flag setting.
- An add-on order notification prints on the interface error log printer.
- Transaction record information is captured in the interface audit.
- Charge processing for add-on orders requires additional evaluation by laboratory personnel and is performed manually.

CANCEL ORDER REQUEST TRANSMITTED FROM REFERENCE LAB

- Transaction record information is captured in the interface audit.
- An error is filed to the interface audit and the order cancellation request is not processed.
- An order cancellation notification is filed to interface error log printer.
- Credit processing for order cancellation requests requires additional evaluation by laboratory personnel and is performed manually.

REFERENCE LAB REVIEW QUEUE REPORTING

- For test results transmitted from the reference lab, normal range information and result flagging (H - High, L - Low, A - Abnormal and P - Panic) are included in the result transaction.

- For test results transmitted from the reference lab, normal ranges and panic value flagging are included in the result transaction.
- Multi-line normals, precanned and free text comments included in the result transaction transmitted from the reference lab are filed as wordprocessing text on STAR Laboratory.
- Partial to Partial Correction Logic processing is not applicable for sendout-interface tests, unless correction flagging is included in the result transaction transmitted from the reference lab.
- Results transmitted from the reference lab are filed to the designated reference lab review queue on STAR Laboratory.
- Corrected results transmitted from the reference lab for tests in a *Done* status are filed as corrected results on STAR Laboratory. As corrected test results are processed, the test status changes to *Partial* and the test is placed into the designated reference lab review queue.
- Results transmitted from the reference lab on result components defined as optional external for tests in a *Done* status are filed as addendum results on STAR Laboratory.
- Performing laboratory information is filed on STAR Laboratory if the test processing has been performed by a lab other than the reference lab.
- After results have been reviewed, the test status changes to *Done*, and the test is removed from the review queue and the Incomplete Worklist. The Primary Report is printed, updated test information displays in Patient Inquiry, and results are filed to the Cumulative and Summary Reports and networked to STAR Patient Care.
- Transaction record information is filed to the interface audit.

Patient Inquiry

- Display *Transmit* test status for test orders transmitted to the reference lab.
- Display *Ref Lab* test status for acknowledgement of specimen receipt by reference lab.
- Display the performing laboratory information when a sendout-interface test sent to the reference lab is performed at a different lab.
- Modifications to general, tracking, and comment information for sendout-interface tests.

VIEW REF LAB PROMPT

- View reference lab prompt/response information on sendout-interface tests.

VIEW WORDPROCESSING RESULTS

- View precanned or free text comments and multi-line normals transmitted from the reference lab as wordprocessing results on sendout-interface tests.

RESULTING TECHS

- View audit trail of resulting tech information for sendout-interface tests.

Patient Reports

- Inclusion of precanned or free text comments and multi-line normals transmitted from the reference lab as wordprocessing results on sendout-interface tests.
- Inclusion of performing laboratory information when a sendout-interface test sent to the reference lab has been performed at a different lab.

Special Reports**MASTER TEST LIST**

- Ability to sort report by test name or code by default sendout laboratory for tests defined with a reference type of sendout or sendout-interface.
- Ability to sort report by test name or code by default performing department for tests defined with a reference type of interdepartment.
- Ability to display both the ordering department test code and the performing test code if they differ.

Maintenance Functions**FLAGS - GENERAL DEPARTMENT**

- Flag to activate Reference Lab Interface.

FLAGS - LABELS

- Separate flags for printing of interdepartment transfer and sendout labels at accessioning.

TABLE DATA - GENERAL

- Storage Requirement Types - new table for defining storage requirements for interdepartment, sendout, and sendout-interface tests.

SPOOLER REPORT/PRINTER DEFINITION

- LTR-Travel List Report - new report for the Travel List Report.
- Ability to define Travel List Report by section.
- Ability to define default and alternate printers for Travel List Report by section.
- Ability to define Sendout Labels Report by section.
- Ability to define default and alternate printers for sendout labels by section.

SPECIAL TEST INFORMATION

- Reference Type
- Sendout-Interface - new option for defining tests resulted, using the Reference Lab Interface.

INTERDEPARTMENT/SENDOUT LABELS

- Storage Requirements
- New option for defining storage requirements for interdepartment, sendout, and sendout-interface tests.
- Collection Requirements
- New option for defining collection weight/volume requirements for sendout-interface tests.

REFERENCE LAB INTERFACE**Interface Parameters**

- New processor for defining Reference Lab Interface parameters.

Cross Reference Processor

- New processor to build cross reference files on STAR Laboratory defining the relationship between STAR Laboratory and reference lab tests and results.

- Ability to add, edit, or delete test code cross references.
- Ability to add, edit, or delete result component cross references.

Print Cross Reference Report

- New processor to generate a printed report of the cross reference files.

Review Queue/Test

- New processor to build review queues and their associated sendout-interface test cross references.
- Ability to add, edit, or delete review queues.
- Ability to add or delete sendout-interface test cross references to a specific review queue.
- Ability to generate a printed report of the review queue/test information.

Ref Lab Prompt/Test

- New processor to build reference lab prompts and their associated sendout-interface test cross references.
- Ability to add, edit, or delete reference lab prompts.
- Ability to add or delete sendout-interface test cross references to a specific reference lab prompt.
- Ability to generate a printed report of the reference lab prompt/test information.

APPLICATION TESTING

The following pages discuss each application function, including the tasks necessary to validate the changes to the STAR Laboratory system with the activation of the Reference Lab Interface. The tables outline the tasks or verification steps, describe data entry needed to test the tasks identified, and describe the expected outcome. When you complete each task, you should check it off under the column. Some setup is required to complete the tasks, so please read each step carefully.

Accession Processing

#	TASK	EXPECTED OUTCOME	
1	Order and accession interdepartment test. Validate generation of transfer labels at Accessioning.	Interdepartment transfer label will be generated at Accessioning if the Transfer Labels at Accn field is set to Yes.	
2	Order and accession sendout test. Validate generation of sendout labels at Accessioning.	Sendout label will be generated at Accessioning if the Transfer Labels at Accn field is set to Yes.	
3	Order and accession sendout-interface test. Validate test display on Incomplete Worklist. Validate test queued to appropriate sendout queue. Validate generation of sendout labels at Accessioning. Validate modifications to sendout label format. The following new data elements can be added to barcode or dot matrix sendout labels: Hospital client code Ref Lab test code	Upon completion of accessioning of sendout-interface test orders: 1. Sendout label will be generated at Accessioning if the Transfer Labels at Accn field is set to Yes. 2. Test status is changed to Spec Recd. 3. Test added to the Incomplete Worklist for the defined default section based on test level flag setting. 4. Test placed in the sendout queue based on the default sendout laboratory specified for the test.	

REFERENCE LAB PROMPT/RESPONSE

#	TASK	EXPECTED OUTCOME	
1	Order and accession sendout-interface test(s) on the same/different specimen types <ul style="list-style-type: none"> linked to 1 or more reference lab interface prompts collection period, weight or volume information required. 	At the end of the accessioning process, the Reference Lab Prompt screen displays.	
2	Add-on order for sendout-interface test to existing accession <ul style="list-style-type: none"> linked to 1 or more reference lab interface prompts collection period, weight or volume information required on weight or volume information required. 	At the end of the accessioning process, the Reference Lab Prompt screen displays.	
3	Validate data entry and prompt for Field 1.	1. Test Name (DISPLAY ONLY) This field displays the test description for the accessioned test for which specimen collection requirements and/or reference lab prompts have been defined.	
4	Validate data entry and prompt for Field 2.	2. Specimen Volume (20-ANP-C) This field is required only if you have defined the test to prompt for collection volume. Prompt: Enter specimen volume including units of measure-- Input: up to 20 alphanumeric including punctuation. If field is not required, system displays N/A and you cannot edit this field.	
5	Validate data entry and prompt for Field 3.	3. Specimen Weight (20-ANP-C) This field is required only if you have defined the test to prompt for collection weight. Prompt: Enter specimen weight including units of measure-- Input: up to 20 alphanumeric including punctuation. If field is not required, system displays N/A and you cannot edit this field.	

#	TASK	EXPECTED OUTCOME	
6	Validate data entry and prompt for Field 4.	<p>4. Reference Lab Prompt/Response (SPECIAL FORMAT-O)</p> <p>When you access the scrolling screen field, there are two columns of data. The reference lab prompt displays first, followed by the response for each reference lab prompt linked to the sendout-interface test accessioned. The columns of data are as follows:</p> <p>Reference Lab Prompt (DISPLAY ONLY)</p> <p>This field displays only if you have reference lab prompts linked to the sendout-interface test accessioned. A prompt of up to 36 alphanumeric characters can be displayed.</p> <p>Response (36-AN-O)</p> <p>This field displays only if you have defined reference lab prompts for the sendout-interface test accessioned. If a default response has been defined for the associated reference lab prompt, it will automatically display in this field and can be edited. Prompt:</p>	
7	<p>Validate field 4 function keys.</p> <p>Validate exit options for scrolling screen:</p> <ul style="list-style-type: none"> • F7 • NL 	<p>F1Prev Page F2Next Page F6Reset F7Exit ?</p> <p>Function keys work as documented in the STAR Laboratory Reference Guide.</p> <p>F7Exit</p> <p>If default responses have been defined and the user exits the scrolling screen by pressing F7 without making any changes, the reference lab prompts and default responses will be filed upon acceptance of the screen.</p> <p>Period (.) ENTER</p> <p>If the user exits this processor by pressing period (.) ENTER, only the reference lab prompts will be filed.</p>	

#	TASK	EXPECTED OUTCOME	
8	Validate acceptance processing.	Prompt: Accept this screen? (Y/N) [Y]-- Input: allow Y, y, N, n or default. Message: Filed! Specimen weight/volume and Ref Lab Prompt/Response displays in Pt Inquiry, prints on Travel List Report and is included in the order transaction transmitted to the reference laboratory.	

Specimen Transfer

EDIT SENDOUT QUEUE

The following table outlines how tests are processed in Edit Sendout Queue using the Move(M) or Edit(E) options.

These processes are a part of current system functionality with the exception of the following warning message: **"Warning: Test(s) cannot be transmitted via the Ref Lab Interface!"**

Test Type	Reference Type	Move to performing department	Move to non-performing department	Move to Sendout Lab w/o Reference Lab Interface	Move to Sendout Lab w/Reference Lab Interface
General	Interdepartment	Yes	No, Error message: Test has no corresponding test defined for DEPT CODE!	Yes	Yes Warning: Test(s) cannot be transmitted via the Ref Lab Interface!
	Sendout				
	Sendout-Interface				
Advanced Micro	Interdepartment	Yes	No, Error message: Test has no corresponding test defined for DEPT CODE!	Yes	Yes
	Sendout				
Anatomic Pathology	Interdepartment	Yes	No, Error message: Test has no corresponding test defined for DEPT CODE!	Yes	Yes
	Sendout				
Advanced Blood Bank	Interdepartment	Yes	No, Error message: Test has no corresponding test defined for DEPT CODE!	Yes	Yes
	Sendout				

#	TASK	EXPECTED OUTCOME	
1	<p>Moving Selections to Another Queue based on reference type defined</p> <ul style="list-style-type: none"> • interdepartment • sendout <p>to sendout lab with ref lab interface cross reference defined.</p> <p>Validate warning message when moving tests from one sendout queue to another.</p>	<p>The Specimen Transfer menu is usually attached to the Central Processing menu. Select Specimen Transfer > Edit Sendout Queue > Once the desired tests/accessions are indicated, M for Move option.</p> <p>If a sendout laboratory with Reference Lab Interface parameters is selected for general test(s) defined with a reference type of interdepartment or sendout, the following warning message displays:</p> <p>Warning: Test(s) cannot be transmitted via the Ref Lab Interface!</p> <p>The following requirements must be met for tests to be transmitted to the designated reference laboratory using the STAR Laboratory Reference Lab Interface:</p> <ul style="list-style-type: none"> • reference type defined as sendout-interface • test and result cross reference information defined for the sendout laboratory selected 	
2	<p>Edit Selections based on reference type defined</p> <ul style="list-style-type: none"> • interdepartment • sendout <p>to sendout lab with ref lab interface cross reference defined.</p>	<p>The Specimen Transfer menu is usually attached to the Central Processing menu. Select Specimen Transfer > Edit Sendout Queue Once the desired tests/accessions are indicated:</p> <p>Prompt: Move(M) all selected accn / test or Edit(E) only--</p> <p>Upon selection of edit option, Edit screen displays.</p>	
3	<p>Validate data entry and prompt for Field 1.</p>	<p>1. Sendout/Transfer Lab (TABLE-LOOKUP)</p> <p>The name of the performing laboratory defined for this test code displays in this field. The performing laboratory can be changed by selecting this field. Prompt: Enter sendout/transfer lab code, first letters`-` or `` for table--</p> <p>Input: sendout lab or a (-) to select from table display.</p> <p>Display: sendout lab description.</p>	

#	TASK	EXPECTED OUTCOME	
4	Validate data entry and prompt for Field 2.	2. Sendout Requisition # (10-C-O) This field enables you to assign a requisition number to the specimen. Prompt: Enter sendout requisition number-- Input: up to 10 alphanumeric characters. Display: sendout requisition number.	
5	Validate data entry and prompt for Field 3.	3. Print Labels (3-A-O) This field enables you to print Sendout/Transfer labels. Prompt: Print sendout/transfer labels? (Y/N) [N]-- Input: allow Y,y, N, n or default. Display: If Y, displays Yes. If N, displays No.	
6	Validate data entry and prompt for Field 4. Validate display default and alternate printer information for sendout/transfer labels based on section specific information.	4. Label Printer (TABLE LOOKUP-C) This field displays the port number and the description of the printer setup during the system installation as the most common printer for the sendout/transfer labels. The printer location can be changed by selecting this field. Access to this field is allowed only when the Print Labels field is set to Yes. When you select this field, the system displays a list of alternate printers defined for the sendout/transfer labels. Select another printer.	
7	Validate data entry and prompt for Field 5. Validate addition of sendout/transfer comment to the Travel List. Validate display of sendout/transfer comment in Patient Inquiry.	5. Sendout/Transfer Comment (29-C-O) This field enables you to enter a sendout/transfer comment. Prompt: Enter sendout/transfer comment or '-' for table-- Input: up to 29 alphanumeric characters or a hyphen (-) to select from table display. Display: sendout/transfer comment. Also displays in Patient Inquiry and prints on the Travel List.	

#	TASK	EXPECTED OUTCOME	
8	Validate the acceptance processing for the screen.	<p>Prompt: Accept this screen? (Y/N/D) [Y]--</p> <p>Input: N, n to edit the fields on this screen.</p> <p>Input: D,d to delete the test from this queue. Deletion of the test from the queue enables the test to be resulted within the ordering department.</p> <p>Message: Deleted!</p> <p>Input: Y, y or default to accept all entries.</p> <p>Message: Filed!</p> <p>If you have selected to print labels, message:</p> <p>Filed and labels printed!</p> <p>If an edit to the test has been</p>	
9	Validate warning message when editing sendout queue.	<p>If a sendout laboratory with Reference Lab Interface parameters is selected for general test(s) defined with a reference type of interdepartment or sendout, the following warning message displays:</p> <p>Warning: Test(s) cannot be transmitted via the Reference Lab Interface!</p> <p>The following requirements must be met for tests to be transmitted to the designated reference laboratory, using the STAR Laboratory Reference Lab Interface:</p> <ul style="list-style-type: none"> • reference type defined as sendout-interface • test and result cross reference information defined for the sendout 	
10	<p>Validate generation of sendout labels.</p> <p>Validate modifications to sendout label format.</p> <p>The following new data elements can be added to barcode or dot matrix sendout labels:</p> <p>Hospital client code</p> <p>Ref Lab test code</p> <p>Storage requirement type.</p>	<p>Sendout labels should include the information as documented in the Reference Guide for standard labels. For user-defined labels, sendout label should include information as defined for your institution.</p>	

SPECIMEN SENDOUT

#	TASK	EXPECTED OUTCOME	
1	Validate Specimen Sendout processing based on reference type defined <ul style="list-style-type: none"> • interdepartment • sendout • sendout-interface. 	The following functions are performed during Specimen Sendout processing: Sendout/Transfer labels prints, if requested. Test is removed from the sendout queue. Travel List prints, if requested and includes: <ul style="list-style-type: none"> • Sendout/Transfer Comment, if entered. • Option to sort by specimen storage requirement FOR SENDOUT-INTERFACE TESTS ONLY <ul style="list-style-type: none"> • Ref Lab Prompt/Response included on Travel List. • Autodial to reference lab to transmit test order transactions for sendout-interface tests. • Outgoing, incoming and error transaction record information is captured in the interface audit. • Test status is changed to <i>Transmit</i> when the order transaction is transmitted to the reference lab. (Test status is changed to <i>Ref Lab</i> when the specimen receipt acknowledgement is sent from the reference lab.) (After the order transmissions are completed, queued test results from the reference lab are sent to STAR Lab as part of the same dial up process.) 	
2	Validate data entry and prompt for Field 1.	1. Process Sendouts/Transfers (1-A-R) This field enables you to process the test(s) associated with a single accession or queue. Prompt: Process as sendouts/transfers? (Y/N) [Y]-- Input: Enter N to bypass this field. Enter Y to process the test(s) in the accession or queue specified in the previous prompt. Display: If Y, displays Yes. If N, displays No.	

#	TASK	EXPECTED OUTCOME	
3	Validate data entry and prompt for Field 2.	<p>2. Print Labels (1-A-O)</p> <p>This field enables you to print Sendout/Transfer labels.</p> <p>Prompt: Print sendout/transfer labels? (Y/N) [N]-- </p> <p>Input: Enter N, n or default to bypass this field.</p> <p>Enter Y, y to print Sendout/Transfer labels.</p> <p>Display: If Y, displays Yes. If N, displays No.</p>	
4	<p>Validate data entry and prompt for Field 3.</p> <p>Validate display default and alternate printer information for sendout/transfer labels based on section specific information.</p>	<p>3. Label Printer (TABLE LOOKUP-C)</p> <p>This field displays the port number and the description of the printer setup during the system installation as the most common printer for the sendout/transfer labels. The printer location can be changed by selecting this field. Access to this field is allowed only when the Print Labels field is set to Yes. When you select this field, the system displays a list of alternate printers defined for the sendout/transfer labels. Select another printer.</p>	

#	TASK	EXPECTED OUTCOME	
5	Validate data entry and prompt for Field 4.	<p>4. Print/Display Travel List (1-A-R)</p> <p>This field enables you to produce a travel list and determines if it should be displayed on the CRT screen or printed. Prompt depends on the response to the PROCESS SENDOUT/TRANSFERS field.</p> <p>If Y, prompt: Print travel list? (Y/N) [N]-- </p> <p>Input: Y, y, N, n or default.</p> <p>Display: If Y, displays Yes. If N, displays No.</p> <p>Prompt depends on the response to the PROCESS SENDOUT/TRANSFERS field.</p> <p>If N, prompt: Display(D) or Print travel list? (Y/N) [N]-- </p> <p>Input: N ,n or default.</p> <p>Display: If N, field displays No.</p> <p>Input: D or d.</p> <p>Display: If D, field displays Display.</p> <p>Input: Y, y or default, to print the travel list.</p> <p>If you entered Y to print a travel list, prompt:</p> <p>Sort travel list by specimen storage requirements?(Y/N)[Y]-- </p> <p>Input: N, or n.</p> <p>Display: If N, field displays Print. The report does not sort by storage requirement and prints all tests as a single report.</p> <p>Input: Y, y or default.</p> <p>Display: If Y, field displays Print Sorted. The report will print</p>	

#	TASK	EXPECTED OUTCOME	
6	Validate data entry and prompt for Field 5.	5. List Printer (TABLE LOOKUP-C) This field displays the port number and the description of the printer setup during the system installation as the most common printer for the Travel List report. The printer location can be changed by selecting this field. Access to this field is allowed only when the Print/Display Travel List field is set to Yes. When you select this field, the system displays a list of alternate printers defined for the Travel List Report. Select another printer from the displayed choices.	
7	Validate data entry and prompt for Field 6. Validate addition of sendout/transfer comment to the Travel List. Validate display of sendout/transfer comment in Patient Inquiry.	6. Sendout/Transfer Comment (29-C-O) This field enables you to enter a sendout/transfer comment. prompt: Enter sendout/transfer comment or '-' for table-- Input: up to 29 alphanumeric characters or a hyphen (-) to select option from comment table. Display: sendout/transfer comment. Also displays in Patient Inquiry tracking and prints on the Travel List.	
8	Validate the acceptance processing for the screen.	Prompt: Accept this screen? (Y/N) [Y]-- Input: allow Y, y, N or n. If you have selected to process and print labels or travel list, message: Processed and printing! If you have selected to not to process and print labels message: Labels printing! If you have selected to not to process but print travel list message: Travel list printing! If you have selected not to process but print labels and travel list message: Labels and travel list printing!	

#	TASK	EXPECTED OUTCOME	
9	<p>Validate printed Travel List report based on reference type defined interdepartment sendout sendout-interface.</p> <p>Validate inclusion of following information:</p> <p>sendout/transfer comment</p> <p>reference lab prompt/ response</p> <p>specimen collection period</p> <p>specimen weight/volume.</p>	<p>Printed report should include the following information as documented in the Reference Guide:</p> <p>Header Information</p> <p>Report Layout</p> <p>At the end of the report, the following message prints: <i>End of report!</i></p> <p>If the report is greater than 1 page, the appropriate page breaks must be included with following display at the end of the page: <i>(Continued)</i></p>	
10	<p>Validate generation of sendout labels.</p> <p>Validate modifications to sendout label format.</p> <p>The following new data elements can be added to barcode or dot matrix sendout labels:</p> <p>Hospital client code</p> <p>Ref Lab test code</p> <p>Storage requirement type.</p>	<p>Sendout labels should include the information as documented in the Reference Guide for standard labels. For user-defined labels, sendout label should include information as defined for your institution.</p>	

REVISE REF LAB PROMPT INFORMATION

#	TASK	EXPECTED OUTCOME	
1	<p>Revise sendout-interface test in <i>Spec Rec'd</i> status on an originating accession</p> <ul style="list-style-type: none"> reference lab prompt/response information specimen weight or volume information <p>based on</p> <ul style="list-style-type: none"> single/multiple tests on same accession sendout-interface test(s) with different test statuses. 	<p>Select Revise Ref Lab Prompt Information option.</p> <p>Prompt: Enter accession number--</p> <p>Input: accession number to revise.</p> <p>The following system checks occur:</p> <p>Test status - Spec Rec'd</p> <p>Ordering test code - send-out interface</p> <p>Current dept - ordering department</p> <p>If single test on accession is eligible for revision, the Revise Ref Lab Prompt screen displays.</p> <p>If multiple tests are eligible for revision, screen displays the tests eligible for revision:</p>	
2	<p>Revise sendout-interface test in <i>Spec Rec'd</i> status on an add-on order originating on STAR Lab</p> <ul style="list-style-type: none"> single/multiple tests on same accession reference lab prompt/response information specimen weight or volume information <p>based on</p> <ul style="list-style-type: none"> single/multiple tests on same accession <p>sendout-interface test(s) with different test statuses.</p>	<p>Select Revise Ref Lab Prompt Information option.</p> <p>Prompt: Enter accession number--</p> <p>Input: accession number to revise.</p> <p>The following system checks occur:</p> <ul style="list-style-type: none"> Test status - Spec Rec'd Ordering test code - send-out interface Current dept - ordering department <p>If single test on accession is eligible for revision, the Revise Ref Lab Prompt screen displays.</p> <p>If multiple tests are eligible for revision, screen displays the tests eligible for revision.</p> <p>Prompt: Enter option--</p> <p>Select test to revise.</p> <p>Display: Revise Ref Lab Prompt screen displays.</p>	

#	TASK	EXPECTED OUTCOME	
3	<p>Enter information for sendout-interface test in <i>Rec'd</i> status</p> <ul style="list-style-type: none"> reference lab prompt/response information specimen weight or volume information based on single/multiple tests on same accession sendout-interface test(s) with different test statuses. <p>Validate the following scenario:</p> <ul style="list-style-type: none"> Ordered and accession an interdepartment test on designated ordering department. Complete specimen sendout processing to designated ordering department. Complete interdepartment check-in on performing department. On performing department, enter specimen collection or reference lab prompt/response information. 	<p>Select Revise Ref Lab Prompt Information option.</p> <p>Prompt: Enter accession number--</p> <p>Input: accession number to revise.</p> <p>The following system checks occur:</p> <ul style="list-style-type: none"> Test status - <i>Rec'd</i> Ordering test code - interdepartment Current dept - performing department Performing test code - send-out interface <p>If single test on accession is eligible for revision, the Revise Ref Lab Prompt screen displays.</p> <p>If multiple tests are eligible for revision, screen displays the tests eligible for revision:</p> <p>Prompt: Enter option--</p> <p>Select test to revise.</p> <p>Display: Revise Ref Lab Prompt screen displays.</p>	
4	<p>Validate the following error messages</p> <ul style="list-style-type: none"> test types other than sendout-interface sendout-interface test with test status other than <i>Spec Rec'd</i> or <i>Rec'd</i> status sendout-interface test in department other ordering department. <p>EXCEPTION: test scenario detailed in task 3.</p>	<p>If the test selected is not defined as a sendout-interface, the following error message displays:</p> <p>Accn# NNNN not eligible for revision of ref lab prompt information!</p> <p>If the sendout-interface test selected has a test status other than <i>Spec Rec'd</i> or <i>Rec'd</i>, the following error message displays:</p> <p>Accn# NNNN not eligible for revision of ref lab prompt information!</p> <p>If the sendout-interface test selected has not been ordered in the current department, the following error</p>	
5	<p>Validate data entry and prompt for Field 1.</p>	<p>1. Test Name (DISPLAY ONLY)</p> <p>This field displays the test description for the accessioned test for which specimen collection requirements and/or reference lab prompts have been defined.</p>	

#	TASK	EXPECTED OUTCOME	
6	Validate data entry and prompt for Field 2.	2. Specimen Volume (20-ANP-C) This field is required only if you have defined the test to prompt for collection volume. Prompt: Enter specimen volume including units of measure-- Input: up to 20 alphanumeric including punctuation. If field is not required, system displays N/A and you cannot edit this field.	
7	Validate data entry and prompt for Field 3.	3. Specimen Weight (20-ANP-C) This field is required only if you have defined the test to prompt for collection weight. Prompt: Enter specimen weight including units of measure-- Input: up to 20 alphanumeric including punctuation. If field is not required, system displays N/A and you cannot edit this field.	
8	Validate data entry and prompt for Field 4.	4. Reference Lab Prompt/Response (SPECIAL FORMAT-O) When you access the scrolling screen field, there are two columns of data. The reference lab prompt displays first followed by the response for each reference lab prompt linked to the sendout-interface test accessioned. The columns of data are as follows: Reference Lab Prompt (DISPLAY ONLY) This field displays only if you have reference lab prompts linked to the sendout-interface test accessioned. A prompt of up to 36 alphanumeric characters can be displayed.	
9	Validate field 4 function keys.	F1Prev Page F2Next Page F6 Reset F7 Exit ? Function keys work as documented in Reference Guide.	

#	TASK	EXPECTED OUTCOME	
10	Validate acceptance processing.	Prompt: Accept this screen? (Y/N) [Y]-- Input: allow Y, y, N, n or default. Specimen weight/volume and Reference Lab Prompt/Response will display in Pt Inquiry, print on the Travel List report, and is included in the order transaction transmitted to the reference laboratory.	

Test Processing

ADD-ON ORDER/ORDER CANCELLATION PROCESSING

#	TASK	EXPECTED OUTCOME	
1	Validate initial processing of an add-on order request received from the reference lab.	<ul style="list-style-type: none"> Add-on order request transaction is transmitted by the reference lab. <p>The following system checks are evaluated, before the add-on order is processed on STAR Laboratory:</p> <ul style="list-style-type: none"> The add-on order must pass current STAR Laboratory split logic criteria for add-on orders with the exception of the check for maximum number of orders per accession. The add-on test must be an existing/active test code on the STAR Laboratory system for which reference lab test cross reference information is defined. 	
2	Validate processing when an add-on order request received from the reference lab is processed on STAR Laboratory.	<p>If the add-on order passes system checks, add-on order is processed according to the existing STAR Laboratory add-on process with the exception of charging. Upon completion of Add-on Order Processing:</p> <ul style="list-style-type: none"> Add-on order information is added to the original accession and displays in the Patient Inquiry. In Patient Inquiry, the Order Comment will display a comment indicating an add-on order request received from the designated reference lab was processed. Add-on order test status is filed as <i>Ref Lab</i>. If indicated, add-on order test is added to the Incomplete Work file for the defined default section. Add-on order notification prints on the interface error log printer. Add-on order information is filed to the interface audit. Incoming and outgoing transaction record information is captured in the interface audit. Charge processing for add-on orders 	

#	TASK	EXPECTED OUTCOME	
3	Validate processing when an add-on order request received from the reference lab IS NOT processed on STAR Laboratory.	<p>If the add-on test fails the system checks, the following processing occurs:</p> <ul style="list-style-type: none"> • An error is filed to the interface audit and the add-on order is not processed. • An add-on order notification prints on the interface error log printer. • Incoming and outgoing transaction record information is captured in the interface audit. 	
4	Validate processing for order cancellation request received from the reference lab.	<p>The following functions are performed during the processing of an order cancellation request received from the reference lab:</p> <ul style="list-style-type: none"> • Order cancellation request transaction is received from the reference lab. • An error is filed to the interface audit and the order cancellation request is not processed. • An order cancellation notification is filed to interface audit. • Incoming and outgoing transaction record information is captured in the interface audit. • Order cancellation and credit processing for cancellation requests requires additional evaluation by laboratory personnel and is performed MANUALLY. 	
5	Validate STAR Laboratory order cancellation.	On STAR Laboratory, order cancellation processing for a sendout interface test follows current system functionality. This information is not transmitted to the reference lab, using the STAR Reference Lab Interface.	

REVISE ORDER INFORMATION

#	TASK	EXPECTED OUTCOME	
1	Validate modifications to accession level information in the Revise Order Information processor for add-on order request from the reference lab processed on STAR Laboratory.	<p>Select Revise Order Information option.</p> <p>Prompt: Enter accession number--</p> <p>Input: accession number to revise.</p> <p>Once you enter the accession number, the system displays the Revise Order Information screen. Edits to accession-level information are based on current system functionality as documented in the STAR Laboratory Reference Guide. Modifications to current functionality are detailed in the following tasks.</p>	
2	Validate Coll Period column.	<p>Coll Period (2-N-C)</p> <p>For add-on test transmitted from the reference lab and processed on STAR Laboratory, this field will display the collection period, if defined, from the original order request transmitted to the reference lab. If multiple order transactions have been transmitted on the same accession, this field will display the collection period which corresponds to the first test on the accession in ASCII order by test code with a collection period defined. Edits to this field follow the current system functionality.</p>	
3	Validate Status column.	<p>Status (DISPLAY ONLY)</p> <p>This field displays the status of the test.</p> <p>For a test that is an add-on order request transmitted from the reference lab and processed on STAR Laboratory, this field will initially display as <i>Ref Lab</i>.</p>	

#	TASK	EXPECTED OUTCOME	
4	Validate Ordering Comment column.	<p>Ordering Comment (36-C-O)</p> <p>The Order Comment cannot be edited if the test is an add-on order received from the reference lab that has been processed on STAR Laboratory. The system automatically displays following comment in this field:</p> <p>Ordered by REFERENCE LAB DESCRIPTION</p> <p>This comment indicates that the add-on order request transmitted from the reference lab has met all the hospital laboratory requirements and has been processed on STAR Laboratory.</p>	
5	Validate Ordering Diagnosis column.	<p>Ordering Diagnosis (33-C-O)</p> <p>For an add-on order request transmitted from the reference lab and processed on STAR Laboratory, this field will display the working diagnosis defined for the patient account. Edits to this field will follow current system functionality.</p>	
6	Validate Ordering Physician column.	<p>Ordering Physician (25-C-R)</p> <p>For an add-on order request transmitted from the reference lab and processed on STAR Laboratory, this field will display the attending doctor defined for the patient account. Edits to this field will follow current system functionality.</p>	

Result Processing

#	TASK	EXPECTED OUTCOME	
1	<p>Validate result processing for sendout-interface test missing test cross reference information</p> <ul style="list-style-type: none"> • Order, accession and complete Specimen sendout processing of a sendout-interface test. • Order request transmitted to reference lab from STAR Laboratory using the Reference Lab Interface. • Test results transmitted from designated reference lab to STAR Laboratory using the Reference Lab Interface. 	<p>For each sendout-interface test, if the test cross reference does not exist, test results transmitted from the reference lab cannot be filed to the designated STAR reference lab review queue.</p> <p>The following error message is filed to the interface audit and the interface error printer. Error 3 Test code cross reference missing!</p>	
2	<p>Validate result processing for sendout-interface test missing result cross reference information</p> <ul style="list-style-type: none"> • Order, accession and complete specimen sendout processing of a sendout-interface test. • Order request transmitted to reference lab from STAR Laboratory, using the Reference Lab Interface. • Test results transmitted from designated reference lab to STAR Laboratory, using the Reference Lab Interface. 	<p>For each sendout-interface test result, if the result cross reference does not exist, test results transmitted from the reference lab cannot be filed to the designated STAR reference lab review queue. The following error message is filed to the interface audit and the interface error printer. Error 6 Component cross reference missing!</p>	

#	TASK	EXPECTED OUTCOME	
3	<p>Validate result processing for sendout-interface tests when results are transmitted from the reference lab</p> <ul style="list-style-type: none"> On STAR Laboratory, order, accession and complete Specimen sendout processing for sendout-interface test(s). Order request(s) are transmitted from STAR Laboratory to the reference lab, using the Reference Lab Interface. When the specimen is received, an acknowledgement is sent from the reference lab to STAR Laboratory, using the Reference Lab Interface. <p>Test processing by the reference lab should include:</p> <ul style="list-style-type: none"> Normal Range values Panic flagging Result flagging (A,L,H) Numeric, textual and titer results corrected results free text comment precanned comment multi line normals <p>for both <i>Partial</i> and <i>Done</i> test statuses</p> <ul style="list-style-type: none"> Completed test results are transmitted from the reference lab to STAR Laboratory, using the Reference Lab Interface. 	<ul style="list-style-type: none"> Normal range information and result flagging (H,L,A,P) are determined by the reference lab and included in the result transaction. If the test processing has been performed by a lab other than the reference lab, the performing laboratory information is included in the result transaction. This information may be transmitted in a distinct segment or as part of the comment segment of the result transaction. Test results are resorted into the result order as defined for the test code on STAR Laboratory and stored in the result file. The test status changes to <i>Partial</i> and the test is placed into the designated reference lab review queue. Test results are queued to the designated reference lab review queue based on defined review queue/test code cross references. If a sendout-interface test has not been linked to 	

Reference Lab Review Queue Reporting

#	TASK	EXPECTED OUTCOME	
1	Validate the function is listed on the appropriate menu.	The Ref Lab Review Queue Reporting function can be added to any section menu.	
2	Validate data entry and prompt for sendout lab.	<p>Prompt: Enter sendout lab code, first letters '-' or '-' for table--</p> <p>Input: sendout lab code.</p> <p>Display: screen listing reference lab review queues.</p> <p>Input: first letters '-' or '-'.</p> <p>Table display of sendout labs cross referenced to reference lab interface.</p> <p>Prompt: Enter choice--</p> <p>Input: option number for sendout lab.</p> <p>Display: screen listing reference lab review queues.</p>	
3	Validate system message if sendout lab cross references not defined.	<p>If the sendout lab code entered does not have a reference lab cross reference defined under the STAR Lab Reference Lab Interface Parameters processor, the following error message will display:</p> <p>ASTM Reference Lab Interface parameters not defined!</p>	

#	TASK	EXPECTED OUTCOME	
4	<p>Validate screen listing reference lab review queue.</p> <p>Validate result processing for sendout-interface test(s)</p> <p>Order, accession and complete Specimen sendout processing of a sendout-interface test.</p> <ul style="list-style-type: none"> • Order request transmitted to reference lab from STAR Laboratory, using the Reference Lab Interface. • Specimen acknowledgement transmitted from the reference lab to STAR Laboratory, using the Reference Lab Interface. • Test results transmitted from reference lab to designated reference lab review queue on STAR Laboratory, using the Reference Lab Interface. 	<p>SCREEN LAYOUT</p> <p>The header information in the first two lines is standard. On the third line, the description of the sendout lab selected displays, followed by Review Queue Options. The page number displays on the fourth line. The list of review queues is a result of the review queue/test code cross reference information defined in the STAR Laboratory Maintenance Functions Reference Lab Review Queue processor. The name of each queue that has reports queued and the number of reports it contains displays. Table display supports multiple paging.</p> <p>Prompt: <i>Enter review queue option-</i></p> <p>Input: enter option number for review queue.</p> <p>Display: Once a queue is selected, the Review Queue screen displays all reports contained in the queue.</p>	

#	TASK	EXPECTED OUTCOME	
5	Validate screen listing all reports in selected reference lab review queue.	<p>SCREEN LAYOUT</p> <p>The header information in the first two lines is standard. On the third line, the description of the reference lab and review queue selected displays. The page number and # Current Choices displays on the fifth line. The primary sort for the report display is test code in ASCII sequence and the secondary sort is accession number in ASCII sequence. The report display begins on the seventh line. For each report, the following information is provided: patient name, accession number, test name, specimen type and accession time. Table display supports multiple paging.</p> <p>Prompt: Enter options to review (e.g. 1,7,5-9) or '-'option to remove-- end selection(NL)</p> <p>Input: Select the report option(s) to review. One or more options can be selected for review.</p> <p>The screen display in ASCII sequence by test code and accession is used to facilitate the selection of multiple options from the table display.</p> <p>Display: After selecting option(s) to review, a screen displays the results reported for the first option selected.</p>	
6	Validate error message for exceeding the system limit on the maximum number of tests selected.	<p>The system has a limit on the maximum number of tests selected when using multiple selection option from the table display.</p> <p>Error message: Maximum # of entries exceeded! Last valid entry is ##.</p>	

#	TASK	EXPECTED OUTCOME	
7	<p>Validate result information for sendout-interface tests</p> <ul style="list-style-type: none"> • Normal Range values • Panic flagging • Result flagging (A,L,H) • Numeric, textual and titer results. <p>Validate result information filed as wordprocessing text</p> <ul style="list-style-type: none"> • free text comment • precanned comment • multi line normals • corrected results based on test status • Partial • Done. 	<ul style="list-style-type: none"> • Normal range information and result flagging (H,L,A,P) determined by the reference lab and included in the result transaction are filed on STAR Laboratory. • For titer results transmitted from the reference lab, as results and/or normal (reference) ranges, the ':' is replaced by a '/' on STAR Laboratory. Titer results presented as multi-line normals display/print on STAR Laboratory as transmitted from the reference lab. • Multi-line normals, free text or precanned comments transmitted in the comment segment of the result transaction are filed as wordprocessing text on STAR Laboratory. These results are filed to the WP component defined in the Interface Parameters builder. 	
8	<p>Validate displayed corrected/addendum results transmitted from the reference lab on sendout-interface tests based on test status</p> <ul style="list-style-type: none"> • Partial • Done. 	<ul style="list-style-type: none"> • Results flagged as "Corrected" and transmitted from the reference lab will display as corrected results. • Results corrected on sendout-interface tests in a <i>Done</i> status will display as corrected results. • Results transmitted from the reference lab for result components on a sendout-interface test in a <i>Done</i> status, defined as optional external, will display as addendum results. 	

#	TASK	EXPECTED OUTCOME	
9	<p>Validate processing for sendout-interface queued to a different reference lab review queue</p> <ul style="list-style-type: none"> • Order, accession and complete Specimen sendout processing of a sendout-interface test. • Order request transmitted to reference lab from STAR Laboratory, using the Reference Lab Interface. • Test results transmitted from reference lab to designated reference lab review queue on STAR Laboratory, using the Reference Lab Interface. • Enter a different reference lab review queue in result component defined to determine the review queue. 	In the Reference Lab Review Queue processor, the accession/test will now display in the reference lab review queue, as defined in the <i>Review Queue</i> result component.	
10	<p>Validate processing for sendout-interface queued to a normal review queue</p> <ul style="list-style-type: none"> • Order, accession and complete Specimen sendout processing of a sendout-interface test. • Order request transmitted to reference lab from STAR Laboratory, using the Reference Lab Interface. • Test results transmitted from reference lab to designated reference lab review queue on STAR Laboratory, using the Reference Lab Interface. • Select a result menu entry or enter free text in result component defined to determine the review queue. 	In the Review Queue Reporting processor, the accession/test will now display in the review queue as defined in the review queue result component.	
11	Validate processing of sendout-interface test results acceptance.	At this point, result processing follows the current system functionality for entering, reviewing and releasing test results as documented in the STAR Laboratory Reference Guide.	

Patient Inquiry

#	TASK	EXPECTED OUTCOME	
1	<p>Validate new test statuses for sendout-interface test</p> <ul style="list-style-type: none"> • Transmit • Ref Lab <p>Validate order processing for sendout-interface test(s)</p> <ul style="list-style-type: none"> • Order, accession and complete Specimen sendout processing of a sendout-interface test. • Order request transmitted to reference lab from STAR Laboratory, using the Reference Lab Interface. • Specimen acknowledgement transmitted from reference lab to STAR Laboratory, using the Reference Lab Interface. 	<ul style="list-style-type: none"> • TRANSMIT Status indicates test orders have been transmitted from STAR Laboratory to the reference laboratory via the Reference Lab Interface. • REF LAB Upon receipt of the specimen in the reference laboratory, an acknowledgement message is transmitted to STAR Laboratory via the Reference Lab Interface. Status indicates the specimen has been received in the performing reference laboratory. 	
2	<p>Validate display of result information for sendout-interface tests</p> <ul style="list-style-type: none"> • Normal Range values • Panic flagging • Result flagging (A,L,H) • Numeric, textual and titer results based on test status • Partial • Done. 	<ul style="list-style-type: none"> • Normal ranges, result and panic value flagging display. • For titer results transmitted from the reference lab, as results and/or normal (reference) ranges, the ':' is replaced by a '/'. Titer results presented as multi-line normals display as transmitted from the reference lab. 	
3	<p>Validate display of corrected/ addendum results on sendout-interface tests based on test status</p> <ul style="list-style-type: none"> • Partial • Done. 	<ul style="list-style-type: none"> • Results flagged as <i>Corrected</i> and transmitted from the reference lab will display as corrected results. • Results corrected on sendout-interface tests in a <i>Done</i> status will display as corrected results. • Results transmitted from the reference lab for result components on a sendout-interface test in a <i>Done</i> status, defined as optional external, will display as addendum results. <p>Exception: Partial to Partial Correction Logic processing is not applicable for sendout-interface tests.</p>	

#	TASK	EXPECTED OUTCOME	
4	Validate display of result information <ul style="list-style-type: none"> • Reference lab • Performing lab based on reference type defined <ul style="list-style-type: none"> • interdepartment • sendout • sendout-interface based on test status • Partial • Done. 	<ul style="list-style-type: none"> • Referred to In multi-department environment, if current department is not the performing department, the following message will display on the screen: Referred to: PERFORMING DEPARTMENT PERFORMING DEPARTMENT is replaced with the name of the department defined as the performing laboratory at the time of specimen processing. For test defined as a sendout or sendout-interface, the following message displays: Referred to: PERFORMING LABORATORY The PERFORMING LABORATORY is replaced with the name of the laboratory defined as the sendout laboratory at the time of specimen processing. Performed by If test defined as a sendout-interface has been performed by a lab other than the reference laboratory indicated, the performing laboratory is transmitted in the result transaction. The following message displays: Performed by: PERFORMING LABORATORY	

#	TASK	EXPECTED OUTCOME	
5	Validate General Information - Field 13 Sendout/Transfer Lab for sendout-interface test.	SENDOUT/TRANSFER LAB For sendout-interface tests, if the test has been performed by a lab other than the reference laboratory, this field will be updated to contain the name of the performing laboratory upon receipt of this information from the reference lab. The performing laboratory is included in the Patient Inquiry Tracking information only if it is transmitted by the reference lab in a distinct segment of the result transaction. If it is transmitted as part of the comment segment of the result transaction, this information will display/print as part of the comment.	
6	Validate Comment Information screen - Field 1 Order Comment for sendout-interface test.	1. ORDER COMMENT This field contains the comment entered at order entry. When an add-on order request received from the reference lab is processed on STAR Laboratory, the following comment displays in this field: Ordered by REFERENCE LAB DESCRIPTION. This comment indicates the add-on order request transmitted from the reference lab has met all the hospital laboratory requirements and has been processed on STAR Laboratory.	
7	Validate Tracking Information screen - Field 1 Order Time for sendout-interface test.	1. Order Time This field contains the date and time the order was entered. If an add-on order request from the reference lab is processed on STAR Laboratory, this field contains the date/time the order request was transmitted from the reference lab.	

#	TASK	EXPECTED OUTCOME	
8	Validate Tracking Information screen - Field 2 Order Name for sendout-interface test.	<p>2. Order Name</p> <p>This field displays the name of the person who entered the order on STAR Laboratory, <i>STAR Patient Care</i> if the order was placed from STAR Patient Care on a network system, <i>Interface</i> if the order was placed on an interfaced HIS (a hospital information system other than STAR Patient Care).</p> <p>For add-on test orders transmitted from the reference lab using the STAR Laboratory Reference Lab Interface, this field displays the name of the reference laboratory.</p>	
9	Validate Tracking Information screen - Field 10 Send Out for sendout-interface test.	<p>10. Send Out</p> <p>This field contains the date and time the specimen was processed for transport to the sendout laboratory for tests defined with a reference type of sendout.</p> <p>For tests defined with a reference type of sendout-interface, this field contains the date and time the order transaction was transmitted to the sendout laboratory.</p>	
10	Validate Tracking Information screen - Field 11 SO Name for sendout-interface test.	<p>11. SO Name</p> <p>This field contains the name of the person who processed the specimen for transfer to the sendout laboratory, using the Specimen Transfer processors.</p>	

#	TASK	EXPECTED OUTCOME	
11	Validate Tracking Information screen - Field 12 Trans Recv for sendout-interface test.	<p>12. Trans Recv</p> <p>In a multi-department environment, this field contains the date and time the specimen was received in the performing department and processed, using the Interdepartment Check-In processor.</p> <p>For tests defined with a reference type of sendout-interface, this field contains the date and time the acknowledgement transaction of the specimen receipt in the sendout-lab was received by STAR Laboratory.</p>	
12	Validate Tracking Information screen - Field 13 Trans Recv Name for sendout-interface test.	<p>13. Trans Rec Name</p> <p>This field contains the name of the person who checked in the specimen at the performing department, using the Interdepartment Check-In processor.</p> <p>For tests defined with a reference type of sendout-interface, this field contains the name of the sendout laboratory transmitting the acknowledgement of the specimen receipt in the lab.</p>	
13	Validate Tracking Information screen - Field 14 1st Partial for sendout-interface test.	<p>14. 1st Partial</p> <p>This field contains the date and time results were first entered for the test.</p> <p>For tests defined with a reference type of sendout-interface, this field contains the date and time the first result transaction for the test was retrieved from the reference lab, using the STAR Reference Lab Interface.</p>	

#	TASK	EXPECTED OUTCOME	
14	Validate Tracking Information screen - Field 15 1st Partial Name for sendout-interface test.	<p>15. 1st Partial Name</p> <p>This field contains the name of the person who first entered results for the test.</p> <p>For tests defined with a reference type of sendout-interface, this field contains the name of the sendout laboratory transmitting the results for the test to STAR Laboratory.</p>	
15	<p>Validate Tracking Information for charge, cancel and credit information on the following sendout interface test orders</p> <ul style="list-style-type: none"> • new order originating on STAR Laboratory • add-on order originating on STAR Laboratory • order cancellation originating on STAR Laboratory • order credit originating on STAR Laboratory • add-on order originating on reference lab • order cancellation originating on reference lab. <p>Validate display of charge/credit</p>	<p>Charge/credit processing for sendout-interface tests follow current system functionality and the charge scheme defined by your institution.</p> <p>Exception:</p> <p>Order and cancellation requests originating on the reference lab system require MANUAL charge/credit processing on STAR Laboratory.</p>	
16	Validate Resulting Tech screen for sendout-interface test.	<p>The Resulting Techs screen displays as currently documented. The only exception for sendout-interface test is detailed below:</p> <ul style="list-style-type: none"> • Reported by <p>This field contains the name of the person who entered results for the result component displayed.</p> <p>For tests defined with a reference type of sendout-interface, this field contains the name of the sendout laboratory transmitting results to STAR Laboratory for the result component displayed.</p>	

#	TASK	EXPECTED OUTCOME	
17	Validate View Report option for display of wordprocessing text for <ul style="list-style-type: none">• free text comment• precanned comment• multi-line normals• corrected results based on test status• Partial• Done.	Multi-line normals, precanned and free text comments are transmitted in the comment segment of the result transaction by the reference lab. These results are filed to the result component defined as the word processing comment. This information will display as word processing text and can be viewed using current system functionality, by selecting the View Report option. Exception: Since a comment or multi-line normals can be associated with each result transmitted from the reference lab, the following text <i>***** Comments and Normals for Component RESULT COMPONENT DESCRIPTION</i> is displayed before each result component comment.	
18	Validate result information display for sendout-interface tests on STAR Patient Care.	The display of result information for sendout-interface tests follows current system functionality.	

VIEW REF LAB PROMPT

#	TASK	EXPECTED OUTCOME	
1	<p>Validate View Ref Lab Prompt screen</p> <ul style="list-style-type: none"> • collection period, weight or volume information required <p>Reference Lab Interface prompt(s) defined for</p> <ul style="list-style-type: none"> • sendout-interface test(s) on original order • add-on order for sendout-interface test(s) • sendout-interface test in <i>Rec'd</i> status based on the following scenario. <p>Ordered, accession and complete specimen sendout processing on an interdepartment test in designated ordering department.</p> <p>Complete interdepartment check-in in performing department.</p> <p>In performing department, enter specimen collection or reference lab prompt/response information.</p>	<p>The View Ref Lab Prompt option is available as a Patient Inquiry '*' option under the following conditions:</p> <ul style="list-style-type: none"> • Reference Lab Prompt/Response information has been defined for sendout-interface test(s) selected. • Specimen collection period, weight or volume information has been defined for the sendout-interface test selected. • Sendout-interface test(s) is in a Spec <i>Rec'd</i> status or greater. 	
2	<p>Validate View Ref Lab Prompt screen layout.</p>	<p>SCREEN LAYOUT</p> <p>The header information in the first seven lines is standard. On the eighth line, the View Ref Lab Prompt/Response & Specimen Collection Information header is displayed. The reference lab prompt/response and specimen collection information begins on the tenth line using a scrolling screen with two columns of data.</p>	

#	TASK	EXPECTED OUTCOME	
3	Validate display for Specimen Volume.	Specimen Volume This information displays only if the specimen volume has been required for the test accessioned. The first column of data displays the heading Specimen Volume. The second column of data displays the volume of the specimen collected. A specimen volume of up to 20 alphanumeric characters including punctuation can be displayed. If the specimen volume is required for the test selected, but specimen volume information has not been entered, the 2nd column display is blank.	
4	Validate display for Specimen Weight.	Specimen Weight This information displays only if the specimen weight has been required for the test accessioned. The first column of data displays the heading Specimen Weight. The second column of data displays the weight of the specimen collected. A specimen weight of up to 20 alphanumeric characters including punctuation can be displayed. If the specimen weight is required for the test selected, but specimen weight information has not been entered, the 2nd column display is blank.	

#	TASK	EXPECTED OUTCOME	
5	Validate display for Reference Lab Prompt/Response.	<p>Reference Lab Prompt</p> <p>The first column of data displays the reference lab prompt(s) linked to the sendout-interface test accessioned. A prompt of up to 36 alphanumeric characters including punctuation can be displayed. If a test code is linked to multiple reference lab prompts, the display order of the reference lab prompts follows the order in which the test was linked to the reference lab prompts as defined in the STAR Lab Maintenance Functions Ref Lab Prompt/Test processor.</p> <p>Response</p> <p>The second column displays the response to the reference lab prompt displayed. A response of up to 36 alphanumeric characters including punctuation can be displayed. If a response has not been entered, the field display is blank.</p>	
6	Validate field 4 function keys.	<p>The panel across the bottom of the screen displays the available function keys.</p> <p>F1Prev Page F2Next Page F7 Exit</p> <p>Function keys work as documented in the STAR Laboratory Reference Guide.</p>	

Patient Reports

#	TASK	EXPECTED OUTCOME	
1	<p>Validate display of result information for sendout-interface tests</p> <ul style="list-style-type: none"> • Normal Range values • Panic flagging • Result flagging (A,L,H) • Numeric, textual and titer results • Performing laboratory information based on test status • Partial • Done <p>on the following Patient Reports</p> <ul style="list-style-type: none"> • Horizontal/Vertical Cumulative Trend Reports • Summary Reports • Long Report • Patient Detail Report • Primary Report. 	<ul style="list-style-type: none"> • Inclusion of normal range values, result and panic flagging • For titer results transmitted from the reference lab, as results and/or normal (reference) ranges, the ':' is replaced by a '/'. Titer results presented as multi-line normals display as transmitted from the reference lab. • Inclusion of performing laboratory on Patient Reports when a test which has been sent to reference lab has been performed at a different lab. The performing laboratory can only be included on the Patient Reports as a distinctive statement if this information is transmitted by the reference lab in a distinct segment of the result transaction. If the performing laboratory is transmitted in the comment segment of the result transaction, this information is included as part of the comment. 	
2	<p>Validate display corrected/addendum results on sendout-interface tests based on test status</p> <ul style="list-style-type: none"> • Partial • Done <p>on the following Patient Reports</p> <ul style="list-style-type: none"> • Horizontal/Vertical Cumulative Trend Reports • Summary Reports • Long Report • Patient Detail Report • Primary Report. 	<p>Corrected/addendum results are included on Patient Reports following the specific requirements for each report as outlined in the current system functionality.</p> <ul style="list-style-type: none"> • Results flagged as <i>Corrected</i> and transmitted from the reference lab display as corrected results. • Results corrected on sendout-interface tests in a <i>Done</i> status display as corrected results. • Results transmitted from the reference lab for result components on a sendout-interface test in a <i>Done</i> status, defined as optional external, display as addendum results. <p>Exception:</p> <p>Partial to Partial Correction Logic processing is not applicable for sendout-interface tests.</p>	

#	TASK	EXPECTED OUTCOME	
3	Validate precanned or free text comments and multi-line normals transmitted from the reference lab on sendout-interface tests print as word processing results.	<p>Precanned, free text comments and multi-line normals transmitted by the reference lab on sendout-interface tests are filed on STAR Lab as wordprocessing results. Word processing results print on Patient Reports following the specific requirements for each report as outlined in the current system functionality.</p> <p>Exception:</p> <p>Since a comment or multi-line normals can be associated with each result transmitted from the reference lab, the following text <i>***** Comments and Normals for Component RESULT COMPONENT DESCRIPTION</i> is displayed before each result component comment.</p>	

Post Live Audits

#	TASK	EXPECTED OUTCOME	
1	Validate charging process for sendout-interface tests.	Charges should be filed for sendout-interface tests based on the charge scheme defined for your institution.	
2	Complete post live audit of sendout interface test results by comparing STAR Laboratory Patient Inquiry display and printed Patient Reports with the reference laboratory printed reports.	All result information transmitted from the reference lab to STAR Laboratory using the Reference Lab Interface should display in Patient Inquiry and print on Patient Reports.	

Appendix B - Hardware Requirements

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INTRODUCTION

Hardware

This interface requires a modem connection between the STAR Laboratory system and the designated reference laboratory system. This modem is typically provided by the reference laboratory. Please refer to the reference laboratory for additional documentation on their requirements.

The required hardware on the STAR Laboratory side of the interface is one RS232 port. For specific information on the port characteristic requirements, refer to the McKesson technical resource assigned to your installation. For information on setting up and modifying port characteristics, refer to the *MultiSTAR Software Environment Operations Guide*.

Error Log Printer

The interface requires a printer to be used as the error log printer. This printer is connected to the STAR Laboratory system and does not need to be dedicated to the interface; however, the selected printer should be located in an area where it can be monitored.

For information on setting up the error log printer, please refer to Chapter 2: Maintenance Processors in the *Reference Laboratory Interface Module* and to the *Maintenance Functions Volume I and II* of the *STAR Laboratory Reference Guide*.

This error log printer prints messages concerning the Start/Stop status of the interface as well as transaction errors, if they occur while the interface is running.

Project Timeframes

The following timeframes represent estimates for the implementation of the STAR Laboratory Reference Lab Interface Module. These timeframes are from an McKesson perspective and assume that hospital and designated reference lab schedule is accommodating. This schedule reflects expectations based on review of the STAR Laboratory Reference Lab Interface pilot site processes. Note that there may be scheduling differences based on the reference lab system selected. This project requires that McKesson, the hospital, and the reference lab each identify a dedicated resource responsible for the joint management of this project.

1. Week 1: Client establishes McKesson and reference lab contacts.

McKesson moves Reference Lab Interface code on-site.

2. Weeks 1-4: Client completes test build phase on STAR Laboratory.

McKesson/Reference Lab/Client IS staff establish communications.

3. Week 5: McKesson/Reference Lab/Client completes Test File Synch Up between STAR Laboratory and reference lab systems.
4. Weeks 6-11: Client/Reference Lab completes detailed testing of Reference Lab Interface in test environment.
5. Week 12: GO LIVE

Client completes Post Live Audits of charging and printed reports.

Requirements for Build/Testing phases of the project are dependent on the following factors:

1. Availability/Experience of hospital resources: McKesson recommends that the Lab system manager and a technologist familiar with sendout processing are used as hospital resources.
2. Reference lab resource available to provide information/requirements during build phase and to coordinate reference lab testing during testing phase.
3. Number of tests to build.

NOTE: Requirements are based on the following pilot process information: 2 hospital resources worked for 1 month to complete the build phase and 1 month to complete the testing phase for 200 sendout-interface tests.

Requirements for Test File Synch Up:

1. Prerequisites for the Test Synch Up process are the completion of the build phase and the establishment of modem communications between the hospital STAR Laboratory system and the reference lab system.
2. This phase of the project requires a technical resource from McKesson and the reference laboratory for completion.

Appendix C - Report Names

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INTRODUCTION

This appendix provides a list of the reports, labels, and forms generated by the STAR Laboratory system. The reports, labels, and forms are presented in alphabetical sequence based on the system name of each and then in alphabetical sequence based on the description of the report, label, or form.

For the STAR Laboratory reports, forms, and labels, the first character of the report name is always the department identifier. The department identifier is an alpha character that is automatically assigned by the system when the department is defined. The department identifier is followed by a three-digit report code. The report code may be the section code if the report is defined to be section specific in Spooler Report Definition. The next three digits represent the report type codes as defined in Spooler Printer Direction in Chapter 11: Spooler/Printer Matrix in the *Maintenance Functions Volume II* of the *STAR Laboratory Reference Guide*. The last digit represents the printer. For example: 0 is always the default printer, whereas other digits (such as 2, 3) represent the alternate printers respectively as defined in printer direction. The number of each report that displays is dependent upon the number of alternate printers selected. If no alternate printers are selected for a report, the report displays only once with the report identifier ending in 0.

An example form is ALALLAL0. The A represents department A. LAL stands for the Laboratory Accession Label report code. LAL is the Report Type Code, which in this case is the Laboratory Accession Label. 0 represents the default printer being used for this form. Using this example, if accession labels are defined to be section specific, the report name would look like, for example, AHEMLAL0 for the Hematology section.

You can use the STAR Audit Service to audit user requests for certain reports. The Audit Service collects and stores information such as report request date and time, the name of the user requesting the report and the criteria selected for the report. The report requests that can be audited are marked with a plus sign (+). For more information, refer to the *STAR Audit Service Reference Guide*.

SYSTEM REPORTS, LABELS, AND FORMS

System Report Names by Report Name

Below is a list of reports as they display with only the default printer defined.

REPORT	DESCRIPTION	REFERENCE GUIDE BOOK
ALALLAL0	Accession Label	Gen Apps Vol - Part I
+ALARLAR0	Archive Patient Listing	Gen Apps Vol - Part II
ALBALBA0	Barcode Accession Label	Maint Func Vol - Part II
ALBBLBB0	Barcode Specimen Rejection	Maint Func Vol - Part II
ALBCLBC0	Barcode Collection Label	Maint Func Vol - Part II
ALBCLBCL	Default Barcode Label	Maint Func Vol - Part II
ALBELBE0	Barcode Spooler Error	Maint Func Vol - Part II
ALBFLBF0	CMS ABN Report	Maint Func Vol - Part II
ALBGLBG0	Barcode General Label	Maint Func Vol - Part II
ALBHLBH0	Barcode Histotech Label	Maint Func Vol - Part II
ALBILBI0	Instrument Accession Label	Gen Apps Vol - Part I
ALBMLBM0	Barcode Adv Micro Label	Maint Func Vol - Part II
ALBNLBN0	ABN Report	Maint Func Vol - Part II
ALBOLBO0	Barcode Sendout Label	Maint Func Vol - Part II
ALBSLBS0	Specimen Rejection Label	Gen Apps Vol - Part I
ALCILCI0	Client Report	Contract Billing Module
ALCLLCL0	Collection Label	Gen Apps Vol - Part I
ALCMLPR0	Primary Report	Gen Apps Vol - Part I
ALCNLCN0	Census Reports	Gen Apps Vol - Part II
+ALCULCU0	Cums Report	Gen Apps Vol - Part I
ALCWLCI0	Client Report - Wide	Contract Billing Module
ALDNLDN0	Downloaded Lab Report	Gen Apps Vol - Part II
+ALDRLGR0	General Reports	All Volumes
+ALGRLGR0	Cytology QA Reports	Anatomic Path Module
+ALGWLGR0	General Reports - Wide	All Volumes
ALHMLPR0	Primary Report	Gen Apps Vol - Part I
+ALHRLHR0	Histotech Process Report	Anatomic Path Module
ALHTLHT0	Histotech Process Label	Anatomic Path Module

ALMILMI0	Microbiology Internal Log	Advanced Micro Module
ALMLLBM0	Barcode Adv Micro Label	Advanced Micro Module
ALMMLMM0	Micro Work-up Labels	Advanced Micro Module
+ALMRLMI0	Microbiology Reports	Advanced Micro Module
ALMRLPR0	Primary Report	Gen Apps Vol - Part I
+ALMWLMI0	Microbiology-Wide Reports	Advanced Micro Module
ALNPLNP0	Lab Network Printer	Gen Apps Vol - Part I
ALPRLPR0	Primary Report	Gen Apps Vol - Part I
+ALRCLRC0	Recall Reminder Letters	Gen Apps Vol - Part I
ALRMLPR0	Primary Report	Gen Apps Vol - Part I
ALRPLRP0	Draft Long Report	Gen Apps Vol - Part I
ALS	Archive Lab Summary	Gen Apps Vol - Part II
ALSLLSL0	Call Stat Labels	Gen Apps Vol - Part I
ALSOLSO0	Sendout Labels	Gen Apps Vol - Part I
+ALSPLSP0	Long Report	Gen Apps Vol - Part I
+ALSRLSR0	Summary Reports	Gen Apps Vol - Part I
+ALTRLTR0	Specimen Transfer	Gen Apps Vol - Part I

System Report Names by Description

DESCRIPTION	REPORT	REFERENCE GUIDE BOOK
ABN Report	ALBNLBN0	Maint Func Vol - Part II
Accession Label	ALALLAL0	Gen Apps Vol - Part I
Archive Lab Summary	ALS	Gen Apps Vol - Part II
+Archive Patient Listing	ALARLAR0	Gen Apps Vol - Part II
Barcode Accession Label	ALBALBA0	Maint Func Vol - Part II
Barcode Adv Micro Label	ALBMLBM0	Maint Func Vol - Part II
Barcode Adv Micro Label	ALMLLBM0	Maint Func Vol - Part II
Barcode Collection Label	ALBCLBC0	Maint Func Vol - Part II
Barcode General Label	ALBGLBG0	Maint Func Vol - Part II
Barcode Histotech Label	ALBHLBH0	Maint Func Vol - Part II
Barcode Sendout Label	ALBOLBO0	Maint Func Vol - Part II
Barcode Specimen Rejection	ALBBLBB0	Maint Func Vol - Part II
Barcode Spooler Error	ALBELBE0	Maint Func Vol - Part II
Call Stat Labels	ALSLLSL0	Gen Apps Vol - Part I
Census Reports	ALCNLCN0	Gen Apps Vol - Part II
Client Report	ALCILCI0	Contract Billing Module
Client Report - Wide	ALCWLCI0	Contract Billing Module
CMS ABN Report	ALBFLBF0	Maint Func Vol - Part II
Collection Label	ALCLLCL0	Gen Apps Vol - Part I
+Cums Report	ALCULCU0	Gen Apps Vol - Part I
+Cytology QA Reports	ALGRLGR0	Anatomic Path Module
Default Barcode Label	ALBCLBCL	Maint Func Vol - Part II
Downloaded Lab Report	ALDNLDN0	Gen Apps Vol - Part II
Draft Long Report	ALRPLRP0	Gen Apps Vol - Part I
+General Reports	ALDRLGR0	All Volumes
+General Reports - Wide	ALGWLGR0	All Volumes
Histotech Process Label	ALHTLHT0	Anatomic Path Module
+Histotech Process Report	ALHRLHR0	Anatomic Path Module
Instrument Accession Label	ALBILBI0	Gen Apps Vol - Part I
Lab Network Printer	ALNPLNP0	Gen Apps Vol - Part I
+Long Report	ALSPLSP0	Gen Apps Vol - Part I

DESCRIPTION	REPORT	REFERENCE GUIDE BOOK
Micro Work-up Labels	ALMMLMM0	Advanced Micro Module
Microbiology Internal Log	ALMILMI0	Advanced Micro Module
+Microbiology Reports	ALMRLMI0	Advanced Micro Module
+Microbiology Wide Reports	ALMWLMI0	Advanced Micro Module
Primary Report	ALCMLPR0	Gen Apps Vol - Part I
Primary Report	ALHMLPR0	Gen Apps Vol - Part I
Primary Report	ALMRLPR0	Gen Apps Vol - Part I
Primary Report	ALPMLPR0	Gen Apps Vol - Part I
Primary Report	ALRMLPR0	Gen Apps Vol - Part I
+Recall Reminder Letters	ALRCLRC0	Gen Apps Vol - Part I
Sendout Labels	ALSOLSO0	Gen Apps Vol - Part I
Specimen Rejection Label	ALBSLBS0	Gen Apps Vol - Part I
+Specimen Transfer	ALTRLTR0	Gen Apps Vol - Part I

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REFERENCE LABORATORY INTERFACE WORKSHEET FORMS

You can use the following worksheets to collect information needed to successfully implement this product. They are grouped according to the following order:

- Test Files
- Reference Lab Interface
- Maintenance Functions

NOTE: Only the fields that require specific entry instructions for sendout-interface tests are represented in worksheets in this chapter. Refer to the *Maintenance Worksheets Volume* of the *STAR Laboratory Reference Guide* for other worksheets. Refer to the *Maintenance Functions Volumes I and II* of the *STAR Laboratory Reference Guide* for additional information on fields.

Sendout-Interface Test Build Checklist

This checklist can be used as a quick reference when completing the sendout-interface test build. Refer to the *Maintenance Functions Volumes I and II* of the *STAR Laboratory Reference Guide* for detailed information.

Master Test List Report

- Generate a printed copy of the Master TestList Report for sendout tests only. This report can be used to determine the current sendout tests and their corresponding performing laboratory information.

Sendout Laboratories

- Define sendout laboratory information.

NOTE: Two entries are required in this table for the designated reference laboratory. The first entry is used with tests defined as sendout-interface and processed using the STAR Laboratory Reference Lab Interface. The second entry is used for tests defined as sendout and processed manually.

Result Components

- Define *Ref Lab Comment* result component to file for reference lab comments and multi-line normals.

- Define *Reviewed by* result component used to release reference lab results.
 - Define new result components, as needed, corresponding to results transmitted from the reference lab for each sendout-interface test.
- NOTE:** If a test performed in-house has the same analyte as a test performed by the reference lab, you must build a new result component for the sendout-interface test.
- NOTE:** In certain instances a unique result component is required on STAR Laboratory for each result when there are multiple occurrences of the same result on different reference lab tests or multiple interpretative results on the same reference lab test.
- Validate units defined for result components on sendout-interface tests match units defined on reference lab tests.

For each test code to be defined as a sendout-interface, complete the following test level information:

Main Information/Labels

- Special Test Information
 - Field 3 Reference Type - Define as Ref Lab Interface
- Interdepartment Referral/Sendout Labels
 - Field 2 Reference Lab - Select reference laboratory
 - Field 7 Storage Requirements - Select storage requirement type
 - Field 8 Collection Requirement - Define collection requirements

Results & Normals

- Add *Ref Lab Comment* result component used to file reference lab comments and multi-line normals to each sendout-interface test.

Special Processing - Word Proc. - Ref Lab

- Add *Reviewed by* result component used to release reference lab results to each sendout-interface test.

Special Processing - Auto Fill ID required

- Add *Review Queue* result component used to queue accession to different reference lab review queue or result reporting review queue.

Special Processing - Menu Selection

(Select previously defined result menu listing pathologists and reference lab review queues.)

- Add result components to each sendout-interface test which correspond to results transmitted from the reference lab.

Crosslinks

- Define crosslink information for sendout-interface tests.

Review Queue

- Define result component(s) required before entry into Review Queue.
- Select *Review Queue* result component as result that determines Review Queue.
- Select *Reviewed by* result component as result that determines release of test from Review Queue.

Interdepartment Test Codes

- If ordering test is interdepartment test and performing test in sendout-interface test, define interdepartment test information on ordering department.

SPECIAL TEST INFORMATION

Complete a separate worksheet for each test.

Test Code: _____ Name: _____

Master Test Code: _____

Reference Type (1-A-R): ☐ Sendout (S)

☐ Interdepartment Referral (I)

☒ Ref Lab Interface Referral (R) (General Test Only)

Number Pools: _____

Anatomic Path Case Number Pool (U-A-O): _____

Single Col. Primary (1-A-R): ☐ Y ☐ N

Inq. Results in Rev.Q (1-A-R): ☐ Y ☐ N

Inq. Result Display Security (2-N-O): _____

Display Partial (1-A-R): ☐ Y ☐ N Panic Report Security (2-N-O): _____

Security Crosslinks (1-N-O): _____

☐ Use Default security crosslinks

☐ Use Defaults crosslinks if user-security crosslinks are not specified

☐ Deny access if user-security crosslinks are not specified

Incomplete (1-A-R): ☐ Y ☐ N

Specimen Display - Resulting (1-A-O): ☐ Y ☐ N

Specimen Display - Patient Inquiry (1-A-O): ☐ Y ☐ N

Facility Code: _____ Department Code: _____

Completion Date: _____ Initials: _____

Revision Date: _____ Initials: _____ Page _____ of _____

INTERDEPARTMENT/SENDOUT LABELS

Complete this worksheet for each test defined as a sendout, sendout-interface, or interdepartment test.

Test Code: _____ Name: _____

Reference Type: _____

Reference Type: ☐ Sendout (S)

☐ Interdepartment Referral (I)

☒ Ref Lab Interface Referral (R)
(General Test Only)

Reference Container(s): _____

Macro Volume (4-N-O): _____

Special
Instruction: _____

Storage Requirements (2-N-O): _____

☐ 1-Room Temperature

☐ 2-Frozen

☐ 3-Refrigerated

☐ Other (specify user-defined storage requirement type)

Collection Requirements (1-N-O) (For Reference Lab Interface tests only): _____

☐ Collection Volume (V)

☐ Weight (W)

☐ None (N)

NOTE: The Collection Requirements values are system-defined values.

Facility Code: _____ Department Code: _____

Completion Date: _____ Initials: _____

Revision Date: _____ Initials: _____ Page _____ of _____

RESULTS AND NORMALS

Complete at least one worksheet for each test.

Section: _____ Bay(s): _____

Test Code/Name: _____

Result #	* Component Code/Name	Req/ Opt	Ext/ Int	History Cardfile	** Special Processing	Workload	Adden. Only
_____	_____	-	-	-	_____	_____	-
_____	_____	-	-	-	_____	_____	-
_____	_____	-	-	-	_____	_____	-
_____	_____	-	-	-	_____	_____	-
_____	_____	-	-	-	_____	_____	-
_____	_____	-	-	-	_____	_____	-
_____	_____	-	-	-	_____	_____	-
_____	_____	-	-	-	_____	_____	-

*Circle those components to be calculated

**Enter menu/table name corresponding to the feature (if applicable):

Auto fill ID

Multiple table selections

Auto fill ID/required complete

Prompt processing

Comment processing

SNOMED®

Date &/or time

Security level specific menu

Free form text

Table selection

ID specific menu

Units X-Match Processing

Menu selection ID

Valid Values

Menu selection

Word Processing

If charging upon resulting, write in the component number which will initiate charging: _____

Department Code: _____

Completion Date:_____ Initials:_____

Revision Date:_____ Initials:_____Page ____ of ____

Reference Lab Interface Processors Checklist

This checklist can be used as a quick reference when completing the Reference Lab Interface Build phase. Refer to Chapter 2: Maintenance Processors in the *Reference Laboratory Interface Module* of the *STAR Laboratory Reference Guide* for detailed information.

Interface Parameters

- Define interface parameters for user designated reference laboratory.

NOTE: Information required to complete Fields 11 through 15 can be obtained by contacting the reference laboratory.

For each test code to be defined as a sendout-interface, the following test level information needs to be completed:

Cross Reference Processor

Contact the reference laboratory for test and result file information prior to beginning this step.

- Define test code cross reference.
- Define result code cross references.

Print Cross Reference Report

- After defining cross reference information for all sendout-interface tests, generate cross reference report to validate information.

Review Queue/Test

- Evaluate laboratory processing for review of results received from the reference lab.
- Define reference lab review queues and links to appropriate sendout-interface tests.

NOTE: Reference Lab Review Queues are defined based on the specific requirements of your laboratory for reviewing reference lab test results. Reference Lab Review Queues can be defined based on section to review, type of specimen, type of test, or a single test if stat processing is required.

Each sendout-interface test can be linked to a single reference lab review queue which determines where results are queued when transmitted from the reference lab. Accessions are automatically queued to the default reference lab review queue if a specific review queue link has not been defined.

Ref Lab Prompts/Test

- Identify reference lab tests requiring specific patient and/or specimen collection information to perform test processing
- Define reference lab prompts for required information and links to appropriate sendout-interface tests.

INTERFACE PARAMETERS

Complete a separate worksheet for each reference laboratory to be interfaced with STAR Laboratory.

Error Log: _____ Interface Port (4-N-R): _____

Audit (1-A-R): _____ Retain Audit Days (1-N-R): _____ Communications (1-A-R): _____

Phone Number(30-NP-C): _____

Auto-Dial Times - Maximum 15 times (4-N-O): _____

*Sign On ID (10-ANP-R): _____

*Password (10-ANP-O): _____ *Sender ID (8-ANP-R): _____

*Client Acct Code (10-ANP-O): _____

*Ref. Lab ID (8-ANP-R): _____ *Ref. Lab Test Length (2-N-R): _____

WP Component (6-AN-R): _____

Sendout Lab Cross Reference:

Default Review Queue Code (12-AN-R): _____

Default Review Queue Description (25-AN-R): _____

Default Batch Release Queue (1-A-R): _____

NOTE: Information required to complete these fields is obtained by contacting the reference lab.

Facility Code: _____ Department Code: _____

Completion Date: _____ Initials: _____

Revision Date: _____ Initials: _____ Page _____ of _____

TEST CODE CROSS-REFERENCE INFORMATION

Complete at least one worksheet for each sendout-interface test.

STAR Laboratory Test: _____

Ref Lab Cross Reference: _____

STAR Result Component	Reference Lab Result Cross Reference
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Facility Code: _____ Department Code: _____

Completion Date: _____ Initials: _____

Revision Date: _____ Initials: _____ Page ____ of ____

REVIEW QUEUE/TEST

Complete this worksheet to define reference lab review queues and link to sendout-interface tests.

Code (12-AN-R) _____

Description (25-AN-R): _____

Batch Release Queue (1-A-R): _____

Sendout-interface test codes linked to this reference lab review queue:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Code (12-AN-R) _____

Description (25-AN-R): _____

Batch Release Queue (1-A-R): _____

Sendout-interface test codes linked to this reference lab review queue:

_____	_____	_____	_____
_____	_____	_____	_____

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Facility Code: _____ Department Code: _____

Completion Date: _____ Initials: _____

Revision Date: _____ Initials: _____ Page ____ of ____

REF LAB PROMPT/TEST

Complete a separate worksheet for each sendout-interface test.

Code (12-AN-R) _____

Reference Lab Prompt (36-ANP-R): _____

Default Response (36-ANP-O): _____

Sendout-interface test codes linked to this reference lab prompt:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Code (12-AN-R) _____

Reference Lab Prompt (36-ANP-R): _____

Default Response (36-ANP-O): _____

Sendout-interface test codes linked to this reference lab prompt:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Code (12-AN-R) _____

Reference Lab Prompt (36-ANP-R): _____

Default Response (36-ANP-O): _____

Sendout-interface test codes linked to this reference lab prompt:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Facility Code: _____ Department Code: _____

Completion Date: _____ Initials: _____

Revision Date: _____ Initials: _____ Page ____ of ____

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■ R e a d e r C o m m e n t F o r m ■

We value your suggestions for improving our documentation. Please use this form to evaluate the *Reference Laboratory Interface Module* of the *STAR Laboratory Reference Guide* for Release 17.0.

Topic	Poor	Fair	Good	Excellent
Organization of information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accuracy of information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completeness of information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity of information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amount of overview information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Explanation of processes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there parts of this manual that could be made more helpful to you? Please explain.

Other Comments:

Thanks for your help in improving the documentation.

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