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STAR 2000™

STAR LABORATORY REFERENCE GUIDE
Advanced Blood Bank LifeLine Module

Release 17.0
October 2011

L17000091

Publication date

October 2011

Produced in Cork, Ireland

Product and version

STAR 2000 Release 17.0

Publication number

L17000091

Reader comments

Any comments or suggestions regarding this publication are welcomed and should be forwarded to the attention of

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Preface

The STAR Advanced Blood Bank (ABB) Interface for use with the Mediware LifeLine® ABB System is one volume in the STAR Laboratory Reference Guide series. It provides information concerning how to build, implement, and use the STAR Laboratory ABB Interface with the LifeLine ABB system.

The *General Information Volume* is prerequisite reading for all other volumes of the *STAR Laboratory Reference Guide*. Successful use of theof the STAR ABB interface with the LifeLine system 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, see 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

      NOTE: Facilities can designate that certain fields be Required. STAR product documentation does not display R for fields designated as Required by a facility.
    - 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. See 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.

Table of Contents

Table of Illustrations

Introduction

STAR Laboratory supports three Advanced Blood Bank (ABB) interfaces. One interface is for use with the Mediware LifeLine Blood Bank system, another interface is for use with the Mediware Hemocare® Blood Bank system, and the final interface is for use with HL7® technology.

Although the LifeLine and Hemocare versions of the STAR Laboratory ABB Interface offer similar functionality, the two applications are very independent in most regards. Each application uses separate tables, files, and programs for most functions. Data storage is completely separate.

Blood Product Availability and manual result entry are the only STAR functions shared by both applications. The Blood Product Availability processor in Patient Inquiry references all patient blood product information regardless of the source blood bank application. Manual result entry for ABB special processing result components is the same for each ABB module.

This document describes the network link between the STAR Laboratory ABB Interface and the Mediware LifeLine Blood Bank system (referred to as the Advanced Blood Bank (ABB) system throughout this document). The information presented is specific to the Mediware LifeLine Blood Bank system.

Chapter 1: Worksheet Instructions

This chapter explains how to complete the worksheets required for implementing the ABB interface.

NOTE: If your hospital has STAR Patient Care, certain files will be networked between the two systems. These files, noted at the beginning of chapter 1, must be built and maintained on STAR Patient Care. If, however, you do not have STAR Patient Care, you must build these files on STAR Laboratory and you will need to purchase the *Tables Volume* of the *STAR Patient Care Reference Guide* to assist you in this process.

Chapter 2: Maintenance Processors

This chapter describes flag, test, result, and menu set-up requirements to implement the ABB interface.

Chapter 3: Applications

This chapter describes use of the Patient Inquiry and Result Entry processors to use the ABB interface.

Appendix A: Testing Criteria

This appendix provides a guide for testing the interface between STAR Laboratory and the ABB system once the system has been built and the interface is active.

Appendix B: Hardware Requirements

This appendix describes hardware requirements for installation of the ABB system including port characteristics and pin configuration.

Chapter 1 - Worksheet Instructions

INTRODUCTION

This chapter describes how to complete worksheets for implementing the Advanced Blood Bank (ABB) interface.

TABLES/FILES REQUIRED FOR THE INTERFACE

Eight tables must be created on both the ABB system and STAR Laboratory for the interface to operate between the two systems. These tables must be identical on both systems. The tables are:

- Doctors/Physicians
- ICD CM Diagnosis (Diagnosis Table)
- Nursing Stations/Patient Types
- Technologist ID Codes
- Blood Components
- Blood Bank Procedures
- Antigens
- Antibodies

Different situations exist for building these tables.

1. If you already have the ABB system in operation, these files may require editing due to STAR Laboratory and STAR Patient Care restrictions. See the individual worksheet instructions for exact code/description requirements.

2. If you plan to go live with both the ABB system and STAR Laboratory simultaneously (providing the interface is in place), you can build the tables on STAR Laboratory. The ABB system is automatically updated with the new information.

   NOTE: The exceptions to this are the Procedure, Unit Source and Disposition tables which must be built on both systems.

After the interface has been installed, you can make changes to the shared tables on STAR Laboratory (with the exception of the Procedure, Unit Source and Disposition tables), and the interface automatically updates the tables on the ABB system.

WORKSHEET INSTRUCTIONS

Worksheets for Physicians, ICD CM Diagnosis, Nursing Stations, Patient Types and Employee Data are not included in this package. These forms are mentioned only because of certain field length restrictions on the ABB system.

Worksheets for Blood Components, Blood Bank Procedures, Antigens and Antibodies tables are presented along with the instructions for completing each. If you have already built these files on the ABB system, or if you choose to use the ABB base set of tables, you can print a list from the ABB system and use it to build the tables on STAR Laboratory.

Worksheets for the Blood Components and Blood Bank Procedures tables must be completed before you can fill out the Blood Bank Procedures per Test and Blood Bank Interface Result Mapping worksheets.

Physicians Worksheet

This table specifies a code for each doctor and includes identifying characteristics of doctor name, specialty, phone, admitting status, and professional group association.

If STAR Laboratory is networked with STAR Patient Care, completion of this form by the laboratory is not necessary. However, specific field length restrictions are required for the ABB interface.

FACILITY/DEPT. CODE
In a multifacility environment, enter the facility code for this physician.

DOCTOR/PHYSICIAN CODE
Enter a numeric code (up to ten digits) for each doctor.

ICD CM Diagnosis

If STAR Laboratory is networked with STAR Patient Care, completion of this form is not necessary. However, specific field length restrictions are required for the ABB interface.

Diagnosis codes are used in the admission process. These codes must match the diagnosis codes used by the Financial system.

CODE
Enter a unique code (up to six digits) for each diagnosis.

Nurse Station Codes

This table is used to establish the various nursing stations in the hospital.

If STAR Laboratory is networked with STAR Patient Care, completion of this form is not necessary. However, specific field length restrictions are required for the ABB interface.

FACILITY/DEPT. CODE
In a multifacility environment, enter the facility code for this nursing station.

CODE
Enter an alphanumeric code (up to three characters) for each nursing station (for example, NSY or 1N).

Patient Types Table

If STAR Laboratory is networked with STAR Patient Care, completion of this form by the laboratory is not necessary. However, specific field length restrictions are required for the ABB interface.

This table is used to define criteria for each type of patient to be admitted or registered in the system. Each type is assigned to an Account Number Group. These groups are used to separate the numbers assigned to: Inpatients, Outpatients, Pre-Admission Patients, Reference Patients, and Series Patients.

FACILITY/DEPT. CODE
In a multifacility environment, enter the facility code for this nursing station.

CODE
Enter an alphanumeric code (up to three characters).

Employee Data

For security purposes, STAR Laboratory is designed to be accessed only by individuals who have been identified in the system's files. An employee file including a unique identification code and other descriptive information is required for every individual who uses the interface.

FACILITY/DEPT CODE
In a multifacility environment, enter the facility code for this nursing station.

ID CODE
Each employee must have a unique ID code (up to six characters) to sign on to the system.

Blood Components

If the ABB system comes with a base set of Blood Components, you can print a list for editing purposes.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

BLOOD CODE
Assign an alphanumeric code (up to five characters) to each Blood Component.

DESCRIPTION
Enter the description for the Blood Component. STAR Laboratory accepts 25 characters for the description to match the 25-character description on the Advanced Blood Bank system.

Unit Source Codes

If the ABB system comes with a base set of Unit Source codes, you can print a list for editing purposes.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

UNIT SOURCE CODE
Assign an alphanumeric code (up to four characters) to each unit.

DESCRIPTION
Enter the description for the Unit Source code. STAR Laboratory accepts 25 characters for the description to match the 25 character description on the Advanced Blood Bank system.

Disposition Codes

If the ABB system comes with a base set of Disposition codes, you can print a list for editing purposes.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

DISPOSITION CODE
Assign an alphanumeric code (up to four characters) to each disposition.

DESCRIPTION
Enter the description for the Disposition code. STAR Laboratory accepts 25 characters for the description to match the 25 character description on the Advanced Blood Bank system.

Miscellaneous Charges

If the ABB system comes with a base set of Miscellaneous Charge codes, you can print a list for editing purposes.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

SIM CODE
Enter the numeric SIM code (up to eight numerals) for each charge. This code must match the Bill code for the charge.

PROCEDURE CODE
Enter the alphanumeric Procedure code (up to seven characters) for each charge.

BILL CODE
Enter the numeric Bill code (up to eight numerals) for each charge. This code must match the SIM code for the charge.

Blood Bank Procedures

Procedures pertain to the activities performed on the ABB system for each STAR Laboratory test. These procedures must be defined prior to assigning them to individual tests. Each procedure is assigned to one of seven ABB record types. Later, during interface result mapping between STAR Laboratory and the ABB system, these record types are used to determine which results actually cross the interface as part of the final test report.

NOTE: If the ABB system comes with a base list of procedures, you can generate this list and use it to build the Procedure table on STAR Laboratory. The Procedures table must be built on both ABB and STAR Laboratory.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

PROCEDURE CODE
Assign a code (from up to seven alphanumeric characters) to each ABB procedure.

DESCRIPTION
Enter a description for the procedure. Although the STAR Laboratory system accepts 30 characters for the description, the ABB (in the case of LifeLine) accepts only 20. Therefore, it is recommended that the description not exceed 20 characters. In many cases, the description may be the same as the record type. (See the seven types listed on the bottom of the Blood Bank Procedures worksheet.)

RECORD TYPE #
Each procedure must be assigned to one of the seven record types available on the ABB system. (See the seven types listed on the bottom of the Blood Bank Procedures worksheet.) The record type determines what information is passed to STAR Laboratory/STAR Patient Care upon test completion. Assign the record type by entering the number corresponding to the desired type from the list.

Antigens

If the ABB system comes with a base list of antigens, you can generate this list and use it to build the Antigen table on STAR Laboratory.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

ANTIGEN CODE
Enter a code (up to four alphanumeric characters) for each antigen. Note only the code is reported when antigens are resulted.

DESCRIPTION
Enter a description (up to 20 characters) for each antigen. Although STAR Laboratory allows 30 characters for the description, the ABB system (in the case of LifeLine) accepts only 20. Therefore, it is recommended antigen descriptions on STAR Laboratory be limited to 20 characters.

Antibodies

If the ABB system comes with a base list of antibodies, you can generate this list and use it to build the Antibody table on STAR Laboratory.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

ANTIBODY CODE
Enter a code (up to four alphanumeric characters) for each antibody.

DESCRIPTION
Enter a description (up to 20 characters) for each antibody. Although STAR Laboratory accepts up to 30 characters for the description, the ABB system (in the case of LifeLine) accepts only 20. Therefore, it is recommended that antibody descriptions on STAR Laboratory be limited to 20 characters.

Result Components

Use the following guidelines in designing the result components necessary for the interface between the STAR Laboratory system and the ABB system.

ABO AND RH

ABO and Rh results are passed from ABB to STAR Laboratory in a single result field. Therefore, a result component named ABO/Rh or ABO & Rh is needed. The result passed to STAR Laboratory is inserted in this result (for example, AB Pos).

DIRECT ANTIGLOBULIN TESTING

Direct Antiglobulin Testing (DAT) can be performed on ABB in two ways: as an immediate spin and/or a 10 minute incubation. The number of DAT result components needed on STAR Laboratory depends on the DAT methods used in your blood bank. For example, if you perform both the immediate spin and the 10-minute incubation, you need to define two separate DAT result components (both DAT Immediate Spin and DAT 10 minute). Each of these is then mapped to the Direct Antiglobulin record type on ABB. If your laboratory performs only one of these DAT procedures, you need only one DAT result component, such as Direct Coombs. DAT interpretations are passed to STAR Laboratory as Pos or Neg.

ANTIGENS

Antigen Testing results are passed to STAR Laboratory as an antigen code and the interpretation, such as KPos. Multiple antigens are stored in a single result component (such as Antigens), and separated by a comma (,).

ANTIBODIES

Antibody Identification results are passed to STAR Laboratory as a code, such as Kell, c, or C. Therefore, an Antibodies result component is needed. Multiple antibodies are stored in a single result component and separated by a comma (,).

ANTIBODY SCREEN

Antibody Screen results are passed to STAR Laboratory as an interpretation of either Pos or Neg no matter how many cells are included in the screen. Multi-cell screens performed on ABB transmit the interpretation of the entire screen, for example, if all cells are negative, the interpretation is Neg. If any cells are positive, a 'Pos' interpretation is passed. Therefore, a single Antibody Screen result component is needed.

NO. OF UNITS

Crossmatch results are passed to STAR Laboratory in the form of a status message regarding each unit crossmatched or setup on the patient per test request. Only the number of units is actually reported to the floor; therefore, the result component No. of Units is needed. This result component is assigned to all tests that require blood components to be setup and/or crossmatched.

Basic Test Information Worksheet

All tests to be resulted on the ABB system must be defined as ABB tests within STAR Laboratory's Master Test file. A worksheet is provided for this purpose in the *Maintenance Worksheets Volume* of the *STAR Laboratory Reference Guide*.

NOTE: New SIM tests are created for each test procedure and each blood component type/unit processed as shown in Test Results Worksheet. It is recommended that you build test codes for crossmatch processing for each type of blood component that can be ordered for one to 10 units.

Test Results Worksheet

The following examples demonstrate how result components are assigned to different types of tests. These examples should be helpful when designing your ABB tests.

Test name: Type and RH

Result Components: ABO and RH

Test name: Type and Screen

Result Components: ABO and RH

Antibody Screen

Test name: Direct Antiglobulin Test (Coomb's)

Result Component: Direct Antiglobulin

Test name: Crossmatch 2 units Whole Blood

Result Components: ABO and RH

Antibody Screen

No. of Units

NOTE: For crossmatch 2 units whole blood tests, use only one *No. of Units* result, regardless of the number of units ordered within the test. Use the new special processing feature Units Crossmatched Processing to indicate when you are adding this component to an ABB test. Defining this Special Processing feature allows the test to be resulted on STAR Laboratory should the need arise (such as if the ABB system is temporarily down).

Test name: Platelets 6 units

Result Components: No. of Units

Test name: Cryoprecip 5 units

Result Components: No. of Units

Test name: Fresh Frozen Plasma

Result Components: ABO and RH

No. of Units

NOTE: Only those result components to be reported to the nursing station or included in the historical database for your laboratory should be defined as results in your STAR Laboratory ABB tests. For example, reagent lot numbers are tracked on the ABB system and are not required as a result in the STAR Laboratory test.

Blood Bank Procedures Per Test

This worksheet is used to define the procedures ordered/requested on the ABB system when an ABB test is accessioned on the STAR Laboratory system. You must complete the Blood Bank Procedures worksheet prior to filling out this form.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

TEST CODE
Indicate the test code for this form.

TEST NAME
Indicate the test name for this form.

BLOOD BANK PROCEDURE
Using the Blood Bank Procedures worksheet, indicate the procedure(s) to be requested on the ABB system each time this test is accessioned by entering the procedure code and description in the space provided. A maximum of eight (8) procedures can be defined per test. You must define these procedures per test prior to mapping test results on the STAR Laboratory system to the ABB system.

BLOOD COMPONENT
If a Blood Component is to be ordered for the procedure, identify the Component (using the Blood Component worksheet) by entering the code and description in the space provided; otherwise leave the Blood Component column blank.

QUANTITY
If a Blood Component is to be ordered for the procedure, indicate the quantity; otherwise leave the Quantity column blank. The default is one.

Blood Bank Interface Result Mapping Worksheet

ABB procedures must be mapped to specific result fields on STAR Laboratory tests to enable result reporting. Result Mapping assigns results sent from the ABB system to a specific result component within the STAR Laboratory test code.

FACILITY/DEPT. CODE
In a multidepartment environment, enter the department code for your laboratory.

RESULT COMPONENT
The Result Component column should be taken directly from the Test Result worksheet for the ABB test. Enter the component number and name in this column.

RECORD TYPE
Using the base Record Types listed at the bottom of the worksheet, indicate the record type associated with this result component.

Result

Except for Direct Antiglobulin and Other Testing, there is only one result per record type. For Direct Antiglobulin and Other Testing record types, indicate the result to be sent to STAR Laboratory by entering one of the two choices. See the following chart to determine the results associated with each record type.

Record Type	Result
ABO and Rh	ABO and Rh
Antibody Identification	Antibody
Antibody Screening	Interpretation
Antigen Testing	Antigen
Crossmatch	Units Crossmatched
Direct Antiglobulin	IS (Immediate Spin) Interpretation
	10 Minute (Incubation) Interpretation
Other Testing	Results
	Interpretation

Product Detail Reporting

For each of the following report type fields, define the print option:

OUTPATIENT (1-A-R)

INTERIM (1-A-R)

PATIENT DETAIL (1-A-R)

DISCHARGE (1-A-R)

POST DISCHARGE (1-A-R)

CUM TREND (1-A-R)

NEW WORK (1-A-R)

CONTRACT (1-A-R)

ARCHIVE (1-A-R)

PHYSICIAN SUMMARY (1-A-R)

Enter **Y** for the report type option to print the Blood Product Detail Report with the selected patient report. Enter **N** if the Blood Product Detail Report should not print with the selected patient report.

Chapter 2 - Maintenance Processors

INTRODUCTION

This chapter describes flag, test, result, and menu setup requirements to implement the Advanced Blood Bank (ABB) Interface.

- Processors containing ABB-specific fields
- Blood Components
- Antibodies
- Antigens
- Blood Bank Procedure
- Result Components
- Basic Test Information
- Result and Normals
- Unit Source
- Disposition
- Other files which are used by ABB

(These processors are documented in the *Tables Volume* of the *STAR Patient Care Reference Guide*.)

- Physicians
- ICD Diagnosis Pointer
- Nursing Station
- Patient Types

(This processor is documented in the *Maintenance Functions Volume* of the *STAR Laboratory Reference Guide*.)

- Employee Data
- Miscellaneous Charges

Section Organization

The Maintenance Processors section consists of:

- Advanced Blood Bank Build Instructions
- Advanced Blood Bank Interface Processors

The Advanced Blood Bank Build Instructions describe processors for creating and maintaining the following data:

- Physicians
- ICD Diagnosis Pointer
- Nursing Stations
- Patient Types
- Employee Data
- Result Components
- Basic Test Information
- Result and Normals

The Advanced Blood Bank Interface Processors are designed specifically for the ABB interface. They include:

- Antibodies
- Antigens
- Blood Bank Procedure
- Blood Components
- Blood Bank Procedures per Test
- Blood Bank Interface Result Mapping
- Interface Parameters
- ABB-->STAR Audit
- STAR ->ABB Audit
- Start/Stop Interface

Interface Table Requirements

The following chart identifies the files and tables required to operate the interface between the ABB system and the STAR Laboratory system.

NOTE: The first three (Physicians, ICD Diagnosis Pointer, and Nursing Stations/ Patient Types), are built and maintained on STAR Patient Care in a network environment.

Systems Requiring

Table Name	Required Code Format	Identical Tables
Physicians	1-4 numeric	STAR Patient Care, STAR ABB
Diagnosis Table	1-6 numeric	STAR Laboratory, STAR, ABB
Nursing Stations/	1-3 characters	STAR Laboratory, Patient TypesSTAR, ABB
Technologist ID Codes	1-6 characters	STAR Laboratory, ABB
Blood Components	1-4 characters	STAR Laboratory, ABB
Blood Bank Procedures	1-7 characters	STAR Laboratory, ABB
Antigens	1-4 characters	STAR Laboratory, ABB
Antibodies	1-4 characters	STAR Laboratory, ABB
Blood Unit Source	1-4 characters	STAR Laboratory, ABB

In addition to the preceding tables, the following files must be built on STAR Laboratory:

- Blood Bank Procedures per Test
- Blood Bank Interface Mapping
- Interface Parameters

NOTE: If your laboratory is using Miscellaneous Charging, the procedure bill codes must match the miscellaneous charge SIM code on STAR Laboratory. For more information on miscellaneous charging, refer to the *Maintenance Functions Volume I* and *General Applications Volume II* of the *STAR Laboratory Reference Guide*.

The system automatically transfers updates to the following tables on STAR Laboratory to the ABB system through the interface:

- Antigens
- Antibodies
- Locations (Nursing Stations and Patient Types)
- Physicians
- Diagnosis
- Employee Data (Technologist with access to Advanced Blood Bank)

You must build and maintain the following tables on both STAR Laboratory and the ABB system based on the current ABB system requirements:

- Disposition
- Procedures
- Unit Source

ADVANCED BLOOD BANK BUILD INSTRUCTIONS

Physicians

NOTE: In a networked environment, this information is built in the STAR Patient Care system and is not required here in STAR Laboratory.

In a stand-alone or interfaced environment, physician information must be provided in STAR Laboratory as follows. Within the Maintenance Processors on STAR Laboratory, select Table Data - General. The General Table Data menu displays for selection. Enter the option number corresponding to the Physicians processor.

For detailed information on each field, refer to Chapter 2: High Level Tables in the *Tables Volume* of the *STAR Patient Care Reference Guide*.

ICD Diagnosis Pointer

NOTE: In a networked environment, this information is built in the STAR Patient Care system and is not required here in STAR Laboratory.

Within the Maintenance Processors on STAR Laboratory, select Table Data - General. The General Table Data menu displays for selection. Enter the option number corresponding to the ICD Diagnosis Pointer processor.

Enter diagnosis code--

Enter the numeric code for this diagnosis.

NOTE: Although the ICD Diagnosis Pointer processor allows entry of up to ten digits, restrictions on the ABB system require the code to be limited to six digits.

Add this code `nnnnnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this diagnosis.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**. The file for this diagnosis is now online and available for use.

For detailed information on each field, refer to Chapter 3: General Tables in the *Tables Volume* of the *STAR Patient Care Reference Guide*.

Nursing Stations

NOTE: In a networked environment, this information is built in the STAR Patient Care system and is not required in STAR Laboratory.

Within the Maintenance Processors on STAR Laboratory, select Table Data - General. The General Table Data menu displays for selection. Enter the option number corresponding to the Bed Locations processor. A menu of Bed Locations Input options appears for selection. Select option 1 - Update Nursing Station Codes.

In a multifacility environment, you must indicate the facility for which you are entering Nursing Station Codes.

Enter nursing station code, or '-' to list--

Enter the three character code for this nursing station

Add this code `nnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this nursing station.

Upon completion of all required fields, the following prompt displays

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

To accept the information displayed, press ENTER or enter **Y**. The file for this nursing station is now online and available for use.

For detailed information on each field, refer to Chapter 2: High Level Tables in the *Tables Volume* of the *STAR Patient Care Reference Guide*.

Patient Types

NOTE: In a networked environment, this information is built in the STAR Patient Care system and is not required here in STAR Laboratory.

Within the Maintenance Processors on STAR Laboratory, select Table Data - General. The General Table Data menu displays for selection. Enter the option number corresponding to the Pat Types Table processor.

In a multifacility environment, you must indicate the facility for which you are entering Patient Types.

Enter patient type code--

Enter the code for this patient type. The code must be limited to three characters.

Add this code `nnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this patient type.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**. The file for this patient type is now online and available for use.

For detailed information on each field, refer to Chapter 2: High Level Tables in the *Tables Volume* of the *STAR Patient Care Reference Guide*.

Employee Data

Within the Maintenance Processors on STAR Laboratory, select Employee Data. In a multidepartment environment, you must indicate the laboratory department of this employee.

The Laboratory Employee Maintenance menu displays for selection. Select option 2-Create/Edit Employee.

Enter ID code,''employee number or last name `-` to edit, add(A) --*

To add a new employee, enter **A**, the ID code (up to **six** characters) or the employee number preceded by an asterisk (*). If you enter the ID code or employee number, the following prompt displays:

No record for #######. Enter new employee? (Y/N)--

Enter **Y**. The first of two screens displays for entry of employee data.

Entering **A** at the initial prompt bypasses the preceding prompt and takes you directly to the employee data entry screen.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**. The file for this employee is now online and the system is available for his/her use.

For detailed information on each field, refer to Chapter 3: Employee Files in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

Flags - General Department

The Flags - General Department processor allows you to select one of four ABB interface options: LifeLine (a.k.a. Western Star), Hemocare, HL7, or None. When you select the Flags - General Department option from the Flags/Utilities maintenance processor, the following screen is displayed:

```
                  General Hospital Maintenance Functions Processor
                                              Tue Aug 10, 2004 12:58 pm


Department Flags for HBOC Laboratory
 1 Lab LIVE               2 Advanced Micro Live
   Yes                      Yes
 3 Printer Matrix         4 Table Display of Sections
   Yes                      No
 5 Adv Bld Bank Interface 6 Reference Lab Interface  7 Canc Uncoll Midnight
-> HL7                      Yes                        Yes
 8 Charge Scheme          9 Misc Charges to HIS     10 Default Charge Location
   Accession                Yes                        LABORATORY NSA
11 Duplicate/Conflict Checking            12 Dup/Conf Collection Retention
   Yes                                       1 day
13 Clinical Questions Active              14 Report Clinical Questions
   Yes                                       No
15 Panic Notification
   Yes



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

Field Explanations

5. ADV BLD BANK INTERFACE (1-A-C)
This field activates the advanced blood bank interface for the department. The options are LifeLine (that is, Western Star) (W), Hemocare (H), HL7 (L), or None (N). When you select this field, the following prompt is displayed:

Select ABB interface Western Star(W) Hemocare(H) HL7(L) or None(N) [N]--

The default setting is *None*.

Impact

Selecting *Western Star(W)* activates the LifeLine ABB Interface for the department.

Result Components

Within the Maintenance Processors on STAR Laboratory, select the General Test Maintenance option. Next, select the Result Components processor.

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

Enter the name of the new result component. Use upper and lower case when necessary.

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

To add the code, press ENTER or enter **Y**.

```
                General Hospital Maintenance Functions Processor
Laboratory                                          Fri May 28, 2004 10:29 am
A - Result Components
                              Component # - 10747A
 1 Result Component Name            2 Short Name   3 Units of measure
   ABO/Rh romplastin                  ABO/Rh
 4 Specimen Type                        5 QC Constituent Code (CAP)
   1 - Blood
 6 Descriptive Method                7 Lookup/CK 5 Exclusion  8 Delta
                                       Yes                      7 days Chng
 9 Valid Values                     10 Valid Range
   Sex                                Not Defined
11 Panic Values                     12 Normal Ranges
   Age/Sex                            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--
```

Define each result component using the preceding processor.

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*.

Basic Test Information

Within the Maintenance Processors on STAR Laboratory, select Maintenance-General Test. In a multidepartment environment, the Laboratory Department table displays for selection. Enter the option number corresponding to your laboratory department. The Laboratory Test Maintenance Functions menu displays for selection. Select the Main Information/Labels processor.

Enter test code or first letters--4700

Enter the desired test code. In this example, the code 4700 was entered corresponding to the Crossmatch Blood 2 Units test.

```
              General Hospital Maintenance Functions Processor
Community Lab                                    Mon Jun 12, 1993 02:58 pm
Section - Blood Bank
Bay - BBL-Blood Bank Tests
CROSSMATCH BLOOD 2 UNITS Options                              Test Code - 4700

( 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)--
```

Enter the Basic Test Information option number.

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

```
              General Hospital Maintenance Functions Processor
Community Lab                                    Mon Jun 12, 1995 02:59 pm
Section - Blood Bank
Bay - BBL-Blood Bank Tests
Basic Test Information                                    Test Code - 4700
 1 Test Name                          2 Short Name        3 Test Type
   CROSSMATCH BLOOD 2 UNITS             XM-2D            -> Adv Bld Bnk
 4 Default Sect  5 Possible Specimens                    6 Default Specimen
   BBL             1                                       1 Blood
 7 Specimen Collect Requirements   8 Max Spec Age  9 Order Category/Sample Size
                                                     R,A,S
10 Performing Bay(s),Section(s)                         11 Orderable Test
   12-BBL                                                  Table & Code
12 History Cardfile        13 Cardfile Print Queue   14 Range Heading
                                                        Default
15 Misc Charge Pro Fee     16 Pro Fee Processing


( 1) General
( 2) Advanced Microbiology
( 3) Surgical Pathology
( 4) Advanced Blood Bank

Enter option [1] --
```

Field Explanations

3. TEST TYPE
Upon accessing this field, the list of test types displays at the lower part of the screen as shown. You must indicate the test as an ABB test before you can continue with the build.

NOTE: The TEST TYPE field is the only field on this screen which requires specific entry instructions for the ABB system. For detailed information on each field in this screen, refer to Chapter 5: Main Test Information in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

Results and Normals

When defining results for ABB tests, include only those results which are to be printed on patient reports and/or those which are desired as part of your historical data base (to be used in Report Writer reports).

A result component called Units Crossmatched or Number of Units should be defined in the Result Components table on STAR Laboratory. This component should then be assigned as a result for all ABB tests involving a crossmatch.

NOTE: Add this component only once to an individual ABB test regardless of how many units are orderable for the test.

Once the Units Crossmatched result component is defined, assign the Special Processing feature Units X-Matched Processing to it. To do this, perform these steps:

1. Select the Maintenance-General Test option from the Laboratory Maintenance Functions menu.

2. Select the Result and Normals processor from the Laboratory Test Maintenance Functions.

3. 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.

4. 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 a hyphen (**-**) and selecting from the table.

Once the desired result is accessed, the following screen displays:

```
      General Hospital Maintenance - General Test Processor
Community Lab                                  Mon Jun 12, 1995 03:27 pm
Section - Blood Bank                               BBL - Cross Match Bay
CROSSMATCH BLOOD 1 UNIT Results and Normals        Test Code - 4701

Component Name: Units Crossmatched                 Component #: 10956A

 1 Required/Optional        2 External/Internal      3 History Cardfile
   Required                   External                 No
 4 Special Processing
   Units X-Matched Processing
 5 Workload                                          6 Addendum Only
   **

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

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

Field Explanations

4. SPECIAL PROCESSING

By assigning the Units X-Matched Processing result type to this field, this ABB test can be manually resulted on STAR Laboratory should the need arise. After selecting this field for editing, select the Units X-Matched Processing option from the table at the bottom of the screen.

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*.

ADVANCED BLOOD BANK INTERFACE PROCESSORS

The remaining steps in the build process involve processors designed specifically for the ABB interface.

Antibodies

This processor enables you to define antibody codes and assign descriptions for each.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Antibodies processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is:

Enter antibody code--

Enter the code for this antibody. The code must be limited to four alphanumeric characters.

Add this code `nnnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this antibody from the worksheet.

```
              General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 02:45 pm
Antibodies
( 1)Code          : C
( 2)Description   : Anti-C

( 3)Edit by       : Durden, Allison V.
( 4)Edit date     : 09/01/94 09:00









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

Field Explanations

1. CODE (DISPLAY)
This field contains the unique antibody code entered at the initial prompt. Note that the code only is transmitted across the interface as part of the final test results. This field cannot be edited.

2. DESCRIPTION (20-C-R)
Enter the description of the antibody. Up to 20 characters are allowed for the description. This field is required.

3. EDIT BY (DISPLAY ONLY)
This field is automatically filled with the name of the person entering/accepting this screen of information. This field cannot be edited but is automatically updated upon entry in the Description field.

4. EDIT DATE (DISPLAY ONLY)
This field is automatically filled with the date and time of screen acceptance. This field cannot be edited but is automatically updated upon entry in the Description field.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**.

Impact

Upon acceptance of this screen, the antibody is online and available for use. Each time an antibody is added the interface automatically updates the ABB system.

Upon re-entry of this screen using either the antibody code or selection from the table of antibodies, the previously entered information displays. The Description field can be edited by selecting the corresponding option number. If no changes are made to the screen, pressing ENTER causes the following prompt to display:

Delete? (N)--

If you enter **Y** (yes), the system prompts:

Enter delete(D) from file or file(F) as deleted [F]--

To completely delete the code and description currently displayed on the screen, enter **D**. (The system then disallows access to the code.) To simply inactivate this code and description, press ENTER or enter **F**.

NOTE: Antibodies which are assigned to a test should not be deleted once the system is LIVE.

Once entered, the code and description can be reactivated by entering the code at the initial prompt. After you enter the code, the following prompt displays:

Enter delete(D) from file or activate(A)--

Enter **A** to reactivate the code and description. Enter **D** to delete the code and description.

Antigens

This processor allows you to define antigen codes and assign descriptions for each. Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Antigens processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is:

Enter antigen code--

Enter the code for this antigen. The code must be limited to four alphanumeric or punctuation characters.

Add this code `nnnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**.

Follow the prompts and enter the remaining information for this antibody from the worksheet.

```
              General Hospital Maintenance Functions Processor
Community Lab                                        Mon Jun 12, 1995 02:46 pm
Antigens
( 1)Code          : K
( 2)Description   : Kell Antigen

( 3)Edit by       : Durden, Allison V.
( 4)Edit date     : 06/24/94 09:35









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

Field Explanations

1. CODE (DISPLAY ONLY)
This field contains the unique antigen code entered at the initial prompt. Note that the code only is transmitted across the interface as part of the final test results. The code may contain up to four characters. This field cannot be edited.

2. DESCRIPTION (20-C-R)
Enter the description of the antigen. Up to 20 characters are allowed for the description. This field is required.

3. EDIT BY (DISPLAY ONLY)
This field is automatically filled with the name of the person entering/accepting this screen of information. This field cannot be edited but is automatically updated upon entry in the Description field.

4. EDIT DATE (DISPLAY)
This field is automatically filled with the date and time of screen acceptance. This field cannot be edited but automatically updates upon entry in the Description field.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**.

Impact

Upon acceptance of this screen, the file for this antigen is online and available for use. Each time an antigen is added, the interface automatically updates the ABB system.

Upon re-entry of this screen using either the antigen code or selection from the table of antigens, the previously entered information displays. The Description field can be edited by selecting the corresponding option number. If no changes are made to the screen, pressing ENTER causes the following prompt to display:

Delete? (N)--

If you enter **Y** (yes), the system prompts:

Enter delete(D) from file or file(F) as deleted [F]--

To completely delete the code and description currently displayed on the screen, enter **D**. (The system then disallows access to the code.) To simply inactivate this code and description, press ENTER or enter **F**.

Once entered, the code and description can be reactivated by entering the code at the initial prompt. After you enter the code, the following prompt displays:

Enter delete(D) from file or activate(A)--

Enter **A** to reactivate the code and description. Enter **D** to delete the code and description.

NOTE: Antigens which are assigned to a test should not be deleted once the system is LIVE.

Blood Bank Procedures

NOTE: You must build the Procedures table on both the STAR Laboratory and the ABB systems.

This processor allows you to define blood bank procedure codes and assign descriptions and record types for each.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Blood Bank Procedures processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is:

Enter blood bank procedure code--

Enter the code for this procedure. The code must be limited to seven alphanumeric characters.

Add this code `nnnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this antibody from the worksheet.

```
              General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 02:47 pm
Blood Bank Procedures
 1 Blood Bank Procedure Code   2 Description
   XMATCH                        Crossmatch

 3 Record Type
   Crossmatch
 4 Edit By
   Durden,Allison V.
 5 Date/Time
   06/27/94 0844









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

Field Explanations

1. BLOOD BANK PROCEDURE CODE (DISPLAY ONLY)
This field contains the unique procedure code entered at the initial prompt. The code may contain up to seven characters. This field cannot be edited.

2. DESCRIPTION (30-AN-R)
Enter the description of the procedure. Although up to 30 characters can be entered on STAR Laboratory, the ABB system cannot accept more than 20 characters. This field is required.

3. RECORD TYPE (TABLE LOOKUP)
When the prompt is located at this field, the screen automatically displays a list of the ABB record types for selection. Each procedure must be associated with a record type. Record types determine what type of information is passed to STAR Laboratory upon test completion on the ABB system. Only one record type can be defined per procedure. Select the record type for this procedure by entering the corresponding option number. This is a required field.

4. EDIT BY (DISPLAY ONLY)
This field is automatically filled with the name of the person entering/accepting this screen of information. This field cannot be edited but is automatically updated upon entry in the Description field.

5. DATE/TIME (DISPLAY ONLY)
This field is automatically filled with the date and time of screen acceptance. This field cannot be edited but is automatically updated upon entry in the Description field.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**.

Impact

Upon acceptance of this screen, the file for this procedure is online and available for use; however, it is not updated on the ABB system. Upon re-entry of this screen using either the blood bank procedure or selection from the table of procedures, the system displays previously entered information on the screen. The Description field can be edited by selecting the corresponding option number. If no changes are made to the screen, pressing ENTER causes the following prompt to display:

Delete? (N)--

If you enter **Y** (yes), the system prompts:

Enter delete(D) from file or file(F) as deleted [F]--

To completely delete the code and description currently displayed on the screen, enter **D**. (The system then disallows access to the code.) To simply inactivate this code and description, press ENTER or enter **F**.

NOTE: Blood Bank Procedures that are assigned to a test should not be deleted once the system is LIVE.

Once entered, the code and description can be reactivated by entering the code at the initial prompt. After you enter the code, the following prompt displays:

Enter delete(D) from file or activate(A)--

Enter **A** to reactivate the code and description. Enter **D** to delete the code and description.

Blood Components

This processor enables you to define blood component codes and assign descriptions for each.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Blood Components processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is;

Enter blood component code--

Enter the code for this blood component. This code can be up to four alphanumeric characters.

Add this code `nnnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this blood component from the worksheet.

```
              General Hospital Maintenance Functions Processor
Community Lab                                        Mon Jun 12, 1995 02:46 pm
Blood Components
( 1)Code          : FFP
( 2)Description   : Fresh Frozen Plasma

( 3)Edit by       : Durden,Allison V
( 4)Edit date     : 04/09/94 04:37









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

Field Explanations

1. CODE (DISPLAY ONLY)
This field contains the unique blood component code entered at the initial prompt. Note that the code only is transmitted across the interface as part of the final test results. The code may contain up to four characters.

2. DESCRIPTION (30-AN-R)
Enter the description of the blood component. Note that only 20 characters of the description is sent to the ABB system. This field is required.

3. EDIT BY (DISPLAY ONLY)
This field is automatically filled with the name of the person entering/accepting this screen of information. This field cannot be edited but is automatically updated upon entry in the Description field.

4. EDIT DATE (DISPLAY ONLY)
This field is automatically filled with the date and time of screen acceptance. This field cannot be edited but is automatically updated upon entry in the Description field.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**.

Impact

Upon acceptance of this screen, the blood component is online and is available for use. Blood Components require additional fields of information to be built on the ABB system. Each time you add a new component on STAR Laboratory, the interface transmits a message indicating that a new component needs to be added to the ABB system.

Upon re-entry of this screen using either the antibody code or selection from the table of components, the previously entered information displays. The Description field can be edited by selecting the corresponding option number. If no changes are made to the screen, pressing ENTER causes the following prompt to display:

Delete? (N)--

If you enter **Y** (yes), the system prompts:

Enter delete(D) from file or file(F) as deleted [F]--

To completely delete the code and description currently displayed on the screen, enter **D**. (The system then disallows access to the code.) To simply inactivate this code and description, press ENTER or enter **F**.

NOTE: Blood components which are assigned to a test should not be deleted once the system is LIVE.

Once entered, the code and description can be reactivated by entering the code at the initial prompt. After you enter the code, the following prompt displays.

Enter delete(D) from file or activate(A)--

Enter **A** to reactivate the code and description. Enter **D** to delete the code and description.

Blood Dispositions

This processor enables you to define blood disposition codes and assign descriptions for each.

NOTE: You must build the Blood Dispositions table on both STAR Laboratory and the ABB system.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Blood Dispositions processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is:

Enter disposition code--

Enter the code for this blood disposition. This code can be up to four alphanumeric characters.

Add this code `nnnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this blood disposition from the worksheet.

```
              General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 03:08 pm
Blood Disposition Codes
( 1)Code          : DISP
( 2)Description   : DISPOSITION

( 3)Edit by       : Durden,Allison
( 4)Edit date     : 09/27/94 12:54pm









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

Field Explanations

1. CODE (DISPLAY ONLY)
This field contains the unique blood disposition code entered at the initial prompt. Note that the code only is transmitted across the interface as part of the transfusion or cancel transfusion record. The code can contain up to four characters.

2. DESCRIPTION (25-AN-R)
Enter the description of the blood disposition. This field is required.

3. EDIT BY (DISPLAY ONLY)
This field is automatically filled with the name of the person entering/accepting this screen of information. This field cannot be edited but is automatically updated upon entry in the Description field.

4. EDIT DATE (DISPLAY ONLY)
This field is automatically filled with the date and time of screen acceptance. This field cannot be edited but is automatically updated upon entry in the Description field.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**.

Impact

Upon acceptance of this screen, the blood disposition code is online and available for use on STAR Laboratory. You must build the blood disposition code on the ABB system.

Upon re-entry of this screen using either the disposition code or selection from a table, the previously entered information displays. The Description field can be edited by selecting the corresponding option number. If no changes are made to the screen, pressing ENTER causes the following prompt to display:

Delete? (N)--

If you enter **Y** (yes), the system prompts:

Enter delete(D) from file or file(F) as deleted [F]--

To completely delete the code and description currently displayed on the screen, enter **D**. (The system then disallows access to the code.) To simply inactivate this code and description, press ENTER or enter **F**.

Once entered, the code and description can be reactivated by entering the code at the initial prompt. After you enter the code, the following prompt displays:

Enter delete(D) from file or activate(A)--

Enter **A** to reactivate the code and description. Enter **D** to delete the code and description.

Blood Unit Source

This processor enables you to define blood unit source codes and assign descriptions for each.

NOTE: You must build the Blood Unit Source table on both STAR Laboratory and the ABB systems.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Blood Unit Source processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is:

Enter unit source code--

Enter the code for this blood unit source. This code can be up to four alphanumeric characters.

Add this code `nnnn`? (Y/N) [Y]--

To add the code, press ENTER or enter **Y**. Follow the prompts and enter the remaining information for this blood source from the worksheet.

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                    Mon Jun 12, 1995 03:11 pm
Blood Unit Source
( 1)Code          : 1111
( 2)Description   : Red Cross

( 3)Edit by       : Durden,Allison
( 4)Edit date     : 09/27/94 12:52pm









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

Field Explanations

1. CODE (DISPLAY ONLY)
This field contains the unique blood unit source code entered at the initial prompt. Note that the code only is transmitted across the interface as part of the final test results. The code can contain up to four characters.

2. DESCRIPTION (25-AN-R)
Enter the description of the blood unit source. This field is required.

3. EDIT BY (DISPLAY ONLY)
This field is automatically filled with the name of the person entering/accepting this screen of information. This field cannot be edited but is automatically updated upon entry in the Description field.

4. EDIT DATE (DISPLAY ONLY)
This field is automatically filled with the date and time of screen acceptance. This field cannot be edited but is automatically updated upon entry in the Description field.

Upon completion of all required fields, the following prompt displays:

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

To accept the information displayed, press ENTER or enter **Y**.

Impact

Upon acceptance of this screen, the blood unit source is online and is available for use on STAR Laboratory. You must build the blood unit source on the ABB system.

Upon re-entry of this screen using either the unit source code or selection from a table, the previously entered information displays. The Description field can be edited by selecting the corresponding option number. If no changes are made to the screen, pressing ENTER causes the following prompt to display:

Delete? (N)--

If you enter **Y** (yes), the system prompts:

Enter delete(D) from file or file(F) as deleted [F]--

To completely delete the code and description currently displayed on the screen, enter **D**. (The system then disallows access to the code.) To simply inactivate this code and description, press ENTER or enter **F**.

Once entered, the code and description can be reactivated by entering the code at the initial prompt. After you enter the code, the following prompt displays.

Enter delete(D) from file or activate(A)--

Enter **A** to reactivate the code and description. Enter **D** to delete the code and description.

Blood Bank Procedures per Test

This processor enables you to identify the actual procedures requested on the ABB system each time the test is accessioned on STAR Laboratory.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions. If your hospital operates in a multidepartment environment, you must next select the appropriate department.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Blood Bank Procedures per Test processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is:

Enter test code or first letters`-`--

The ABB test for procedure definition must be specified, either by entry of the test code or selection from a menu of existing codes. Note that the test must be defined as an ABB test to use this processor. If another test type is indicated, the following message displays:

NOT an Advanced Blood Bank Test!

Once the proper test code is selected, the following screen is displayed for tests with no procedures defined.

```
               General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 03:02 pm
                     Advanced Blood Bank Procedures per Test
Test: 4700-CROSSMATCH BLOOD 2 UNIT









NO procedures defined! Add(Y/N) [Y] --
```

To define Blood Bank Procedures for the test code/name listed at the top of the screen, press ENTER or enter **Y**. To exit this processor, enter **N**.

```
               General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 01:23 pm
                     Advanced Blood Bank Procedures per Test
Test: 4700-CROSSMATCH BLOOD 2 UNITS

Page:01            Blood Bank Procedures for Community Lab
( 1) ABORH-ABO and Rh
( 2) ABID-Antibody Identi
( 3) ABSC-Antibody Screen
( 4) AGID-Antigen ID
( 5) XMATCH-Crossmatch
( 6) DAT-Direct Antiglobu
( 7) OTH-Other Testing









Enter choice--
```

This processor enables you to identify allprocedures to be requested/performed on the ABB system when the test is accessioned on STAR Laboratory. The screen displays the table of blood bank procedures previously defined for your laboratory department. You are required to select one procedure ata time and advance through the sequence of screens that follows. The system then allows you to define the next procedure for this test.

Select the desired procedure by entering its corresponding option number. The preceding screen is only an example of available procedures. These may differ on your screen. In this example option 5 - XMATCH-Crossmatch, was selected.

```
               General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 01:23 pm
                     Advanced Blood Bank Procedures per Test
Test: 4700-CROSSMATCH BLOOD 2 UNITS

Procedure: XMATCH-Crossmatch
 1 Blood Component                                  2 Quantity
   WB-Whole blood                                     2









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

The selected procedure displays at the top of the screen below the test name.

Field Explanations

1. BLOOD COMPONENT (TABLE LOOKUP)
The screen displays a list of the blood components previously defined for your laboratory department. Indicate the type of blood component to be used for this procedure by entering the corresponding option number. You are limited to one blood component per procedure. If a component is not associated with this procedure, simply press ENTER and advance to the next field. In this example, WB-Whole blood was selected.

2. QUANTITY (3-N-R)
Indicate the number of units of this blood component to process on the ABB system for this procedure. When this field is accessed, the following prompt displays:

Enter quantity [1] --2

If this procedure does not involve a blood component, press ENTER for the default of 1. In this example, 2 was entered. Each time this test is accessioned on STAR Laboratory, 2 units of whole blood will be requested on the ABB system.

When you have completed both fields on this screen, the following prompt displays:

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

Accept the entries presented on the screen by pressing ENTER. You may edit the fields by entering **N**.

Upon screen acceptance, the system displays the following message:

Filed!

```
              General Hospital Maintenance Functions Processor
Community Lab                                    Mon Jun 12, 1995 01:23 pm
                     Advanced Blood Bank Procedures per Test
Test: 4700-CROSSMATCH BLOOD 2 UNITS

Page:01   Procedure                              Component        Quantity
( 1) XMATCH-Crossmatch                                WB         2









Select option to edit or `A` to add --
```

This screen displays the procedure, component and quantity you have just defined along with any others that already exist for this test. At the prompt, you can enter A to repeat the procedure definition process or enter the option number corresponding to a previously defined procedure to edit the component, edit the quantity, or delete the procedure from the test. This screen is for display only.

A limit of eight (8) procedures can be defined per ABB test.

Procedures must be defined prior to mapping ABB test results between the STAR Laboratory and ABB systems.

Field Explanations

1. PROCEDURE (DISPLAY ONLY)
This field displays the procedure names defined for this test.

2. COMPONENT (DISPLAY ONLY)
This field displays the blood component code defined for the procedure.

3. QUANTITY (DISPLAY ONLY)
This field displays the quantity (for example, the number of units) of the blood component defined for the procedure.

Advanced Blood Bank Result Mapping

Once you have defined the ABB procedures per test, you must map the individual ABB record type corresponding to the desired result component within the ABB test on STAR Laboratory.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions Menu.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Adv Blood Bank Result Mapping processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

The first prompt displayed upon selection of this processor is:

Enter test code or first letters`-`--

The ABB test must be specified, either by entry of the test code or selection from a menu of existing codes. Note that the test must be defined as an ABB test to use this processor. If another test type is indicated, the following message displays:

NOT an Advanced Blood Bank Test!

Once the proper test code is selected, the following screen displays:

```
               General Hospital Maintenance Functions Processor
Community Lab                                        Mon Jun 12, 1995 02:54 pm
                   Advanced Blood Bank Interface Result Mapping
Test: 4700-CROSSMATCH BLOOD 2 UNITS

Page:01             Results for 4700-CROSSMATCH BLOOD 2 UNITS
( 1) 10945- Pt ABO/Rh
( 2) 11255- Units Crossmatched









Select result to map --
```

This screen lists the test code and name at the top of the screen. If no results have been mapped, the screen displays the result components defined for this test and requires you to select the result to map. In this example, option 1 - 10945-Pt ABO/Rh was selected for mapping.

```
               General Hospital Maintenance Functions Processor
Community Lab                                        Mon Jun 12, 1995 02:54 pm
                   Advanced Blood Bank Interface Result Mapping
Test: 4700-CROSSMATCH BLOOD 2 UNITS
Result: 10945-Pt ABO/Rh

Page:01                 Advanced Blood Bank Record Types
( 1) A-ABO & RH
( 2) S-Antibody Screen
( 3) X-Crossmatch









Select the record type --
```

Notice the result component name and number you selected displays at the top of the screen.

The center of the screen lists the record types associated with the procedures defined for this test (using the Procedures per Test processor). The record type determines what information is transmitted to STAR Laboratory upon test completion.

Select the record type corresponding to this result component.

```
               General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 02:54 pm
                  Advanced Blood Bank Interface Result Mapping
Test: 4700-CROSSMATCH BLOOD 2 UNITS
Result: 10945-Pt ABO/Rh

Page:01                Results for ABO & RH Record type
( 1) 1-ABO/RH









Select option to map 10945-Pt ABO/Rh to --
```

Each record type has one corresponding result except for the Direct Antiglobulin and Other Testing record types. See the chart below to determine the result(s) associated with each record type.

Record Type	Result
ABO and Rh	ABO and Rh
Antibody Identification	Antibody
Antibody Screening	Interpretation
Antigen Testing	Antigen
CrossmatchUnits	Crossmatched
Direct Antiglobulin	IS (Immediate Spin) Interpretation 10 Minute (Incubation) Interpretation
Other Testing	Results Interpretation

Enter the option number listed or select from the choices.

```
               General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 02:54 pm
                   Advanced Blood Bank Interface Result Mapping
Test: 4700-CROSSMATCH BLOOD 2 UNITS
Result: 10945-Pt ABO/Rh




10945-Pt ABO/Rh will be mapped to
Record type A-ABO & RH result ABO/RH









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

This screen displays the result component number/name, the record type mapped and the corresponding result for verification. Accept the entry by pressing ENTER or by entering **Y**. Reject the entry by entering **N**.

Upon screen acceptance, the following message displays:

Filed!

```
               General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 02:54 pm
                   Advanced Blood Bank Interface Result Mapping
Test: 4700-CROSSMATCH BLOOD 2 UNITS

Page:01   Result                          Record Type            Result
( 1) 10945-Pt ABO/Rh                       ABO & RH              ABO/RH
```

```
Select option to delete or `A` to add --
```

This screen displays the current mapping record information. Enter **A** to repeat the mapping process for another result component or enter the option number of a mapping record to delete.

Field Explanations

1. RESULT (DISPLAY ONLY)
This is a result component that has been mapped.

2. RECORD TYPE (DISPLAY ONLY)
This is the record type to which the result is mapped.

3. RESULT (DISPLAY ONLY)
This is the result type of the record type to which the result is mapped.

Product Detail Reporting

To access the Product Detail Reporting option, select the Maintenance - Advanced Blood Bank Interface option from the Maintenance Functions screen. After you enter the option number for this processor, the system prompts you for a department selection, if your system is multi-department.

If your STAR Laboratory system is interfaced to the LifeLine Advanced Blood Bank system, the following screen displays:

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                  Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Pressing ENTER or period (.) ENTER at the above prompt returns you to the Maintenance Functions screen.

If your STAR Laboratory system is interfaced to the Hemocare Advanced Blood Bank system, the following screen displays:

```
       General Hospital Maintenance Functions Processor
LABORATORY                                  Wed Jan 25, 1995 10:08 am
           Hemocare Interface Maintenance Functions            Page:01
( 1) A - Blood Bank Procedures
( 2) A - Blood Components
( 3) B - Bld Bk Procedures per Test
( 4) C - Adv Bld Bnk Result Mapping
( 5) C - Product Detail Reporting
( 6) Maintenance Types - ABB Int
( 7) Maintenance Types List - ABB I
( 8) Y - Interface Parameters
( 9) Z - Audit (HEMOCARE --> STAR Lab)
(10) Z - Audit (STAR Lab --> HEMOCARE)
(11) Z - Message to HEMOCARE
(12) Z - Start/Stop Interface



Enter choice--
```

Pressing ENTER or period (.) ENTER at the above prompt returns you to the Maintenance Functions screen.

Select the Product Detail Reporting option. When you enter the option number for this option, the system prompts you for a facility selection, if your system is multi-facility. The system displays the following screen:

```
             General Hospital Maintenance Functions Processor
Hospital A                                      Wed Jan 25, 1995 10:14 am
                      Product Detail Reporting Parameters
 1 Outpatient                 2 Interim                    3 Patient Detail
   Yes                           Yes                          Yes
 4 Discharge                  5 Post Discharge             6 Cum Trend
   Yes                           Yes                          Yes
 7 New Work                   8 Contract                   9 Archive
   Yes                           Yes                          Yes
10 Physician Summary
   Yes




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

Pressing period (.) ENTER at the above prompt returns you to the Advanced Blood Bank Interface screen.

Field Explanations

For each of the following report type fields, define the print option:

1. OUTPATIENT (1-A-R)	6. CUM TREND (1-A-R)
2. INTERIM (1-A-R)	7. NEW WORK (1-A-R)
3. PATIENT DETAIL (1-A-R)	8. CONTRACT (1-A-R)
4. DISCHARGE (1-A-R)	9. ARCHIVE (1-A-R)
5. POST DISCHARGE (1-A-R)	10. PHYSICIAN SUMMARY (1-A-R)

As each field is accessed, the following prompt displays:

Print blood product detail page with REPORT NAME reports?(Y/N)[Y]--

The name of the report selected replaces the REPORT NAME in this message. Enter **N**, if the Blood Product Detail Report should not print with the selected report. The field displays No. Enter **Y** or press ENTER to accept the default response, if the Blood Product Detail Report should print with the selected report. The field displays Yes.

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

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

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

Impact

When the report type field is set to Yes, the Blood Product Detail Report is included with the selected report. As a result, if bbod product information exists for the specific patient account, the Blood Product Detail Report will print along with the selected report.

Maintenance Options

```
      General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

The Maintenance Types-ABB Int processor allows you to control who uses the processors within the Laboratory Adv Blood Bank Interface Maintenance functions by restricting access based on security level. Next, select Maintenance Types-ABB Int from the preceding menu.

```
              General Hospital Maintenance Functions Processor
Community Lab                                     Mon Jun 12, 1995 02:19 pm
Adv Blood Bank Interface Maintenance Types









Add(A) or print(P) maintenance type (`-` for table)--
```

Adv Blood Bank Interface Maintenance Types displays on the third line of this screen. When a hyphen (**-**) is entered at the preceding prompt, each Laboratory Adv Blood

Bank Interface Maintenance processor displays for selection. Select the processor to edit by entering the corresponding option number.

```
            General Hospital Maintenance Functions Processor
Community Lab                                    Mon Jun 12, 1995 02:19 pm
Adv Blood Bank Interface Maintenance Type
( 1)Description    : A - Antibodies

( 2)Security Level : 80
( 3)Edit by        : Durden, Allison V
( 4)Edit date      : 10/06/94 1518









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

Field Explanations

1. DESCRIPTION (DISPLAY ONLY)
This is the description of the maintenance function as it appears on the Equipment Instrument Maintenance menu. This field cannot be edited.

2. SECURITY LEVEL (2-N-R)
Enter the security level to allow access to this function. The default is the highest user-security level defined on your system.

3. EDIT BY (DISPLAY ONLY)
This field automatically fills with the ID of the person entering the information.

4. EDIT DATE (DISPLAY ONLY)
This field automatically fills with the date of the change and/or addition.

Upon completion of 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.

The maintenance types list provides a printed copy or screen display of the Laboratory Adv Blood Bank Interface Maintenance functions and their security levels as specified using the Maintenance types processor.

Select the Maintenance Types List - ABB I processor from the menu below.

```
              General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 03:01 pm

            Laboratory Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                      Mon Jun 12, 1995 02:22 pm
Adv Blood Bank Interface Maintenance Types









Do you want a printed(P) list or display(D) [D]--
```

Enter **P** to generate a hard copy of this report. The screen displays the default printer and a list of alternate printers defined for this report.

Enter **D** or press ENTER to display the report on the CRT.

```
         Community Lab Adv Blood Bank Interface Maintenance Functions
                                                 Mon Jun 12, 1995 02:23 pm

---------------------------------------*---------------------------------------
|       Description                    Security                              |
---------------------------------------*---------------------------------------
 ( 1)   A - Antibodies                    80
 ( 2)   A - Antigens                      80
 ( 3)   A - Blood Bank Procedures         80
 ( 4)   A - Blood Components              80
 ( 5)   B - Bld Bk Procedures per Test    80
 ( 6)   C - Adv Bld Bnk Result Mapping    80
 ( 7)   Maintenance Types - ABB Int       80
 ( 8)   Maintenance Types List - ABB I    80
 ( 9)   Y - Interface Parameters          80
 (10)   Z - ABB --> Star Audit            80
 (11)   Z - Star --> ABB Audit            80
 (12)   Z - Start/Stop Interface          80



Press NL--
```

The screen displays a list of the Adv Blood Bank Interface Maintenance functions and their corresponding security levels allowing access to the function.

Interface Parameters

Certain parameters must be defined prior to running the interface. These are usually set by your McKesson installation team and are not changed (except for the Error Log printer port).

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions menu.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Interface Parameters processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                     Mon Jun 12, 1995 03:25 pm
                      Adv Blood Bank Interface Parameters
 1 Protocol/Outgoing pgm   2 Error Pgm     3 Error Log    4 Interface Port
   ***                       ***             ALGWLGR9(33)   84
 5 Outgoing Transactions
   B,D,E,F,I,O,P,Q,R,S,Z
 6 Incoming Pgm   7 Incoming Transactions
   ***              T,U
 8 Audit          9 Retain audit days     10 Interface Release
   Yes              7                       10.3
11 Format of Patient ID number
   Unit # with both facility and leading Zeros Stripped (123405)
12 WSBB Year Format/4 Digits









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

Field Explanations

1. PROTOCOL/OUTGOING PGM (9-AN-R)
Use the default (base) program for this field unless a site-specific need requires a different protocol. If you enter a different program, precede the program by a carat (^) symbol. This field is for McKesson use only. If your security level is less than 90, three asterisks (***) display in this field rather than program names.

2. ERROR PGM (9-AN-R)
Use the default (base) program for this field unless a site specific need requires a different error program. If you enter a different program, precede the program by a carat (^) symbol. This field is for McKesson use only. If your security level is less than 90, three asterisks (***) display in this field rather than program names.

3. ERROR LOG (TABLE LOOKUP)
Upon selection of this field, a table of reports (ports) displays for selection. This table comes from the spooler file for your laboratory department. Select the report to be used for the error log (port). Only one port can be selected. Both the report name and port number (in parentheses) display in this field.

4. INTERFACE PORT (4-N-R)
Enter the port for the interface.

5. OUTGOING TRANSACTIONS (TABLE LOOKUP)
This field is automatically filled with the standard outgoing transactions (those record types which pass from STAR Laboratory to the ABB system). To alter or edit these transactions, enter a hyphen (**-**) and select from the following table entries (you may select all or individual transactions):

1	B-Admission/Registr (Registration)
2	D-Cancel Discharge
3	E-Cancel Request
4	F-Discharge
5	I-Merge Patients
6	O-Revision
7	P-Transfer
8	Q-Visit Transfer
9	R-Unit Number Chang (Change)
10	S-Request/Order
11	Z-Table Updates

6. INCOMING PGM (9-AN-R)
Use the default (base) program for this field unless a site-specific need requires a different program. If you enter a different program, precede the program name by a carat (^) symbol. This field is for McKesson use only. If your security level is less than 90, three asterisks (***) display in this field rather than program names.

7. INCOMING TRANSACTIONS (TABLE LOOKUP)
This field is automatically filled with the standard outgoing transactions (those record types which pass from the ABB system to STAR Laboratory). To alter or edit these transactions, enter a hyphen (**-**) and select T-Results or U-Request Update from the table entries (you may select all or individual transactions).

8. AUDIT (1-A-R)
Indicate if you wish to retain an online audit of transactions by entering **Y** (yes) or **N** (no). The default is **N** (no).

9. RETAIN AUDIT DAYS (1-N-R)
Indicate the number of days audit information is to remain online prior to automatic deletion during midnight processing. This number must be less than eight (8) days. The default is seven days.

10. INTERFACE RELEASE (1-A-R)
This field indicates which STAR Laboratory release specifications to use. Enter **Y** to use 10.3 specifications or **N** to use 10.2 specifications. If you are using 3.0 or greater Lifelink, enter **Y** for 10.3 specifications. If you are using another version of Lifelink, enter **N** for 10.2 specifications. There is no default.

11. FORMAT OF PATIENT ID NUMBER (TABLE LOOKUP)
Upon entry of this field, the following base list of format options displays for selection:

1 Unit # as is (B00000123405)

2 Unit # with leading zeros stripped (B123405)

3 Unit # with only facility stripped (00000123405)

4 Unit # with both facility and leading zeros stripped (123405)

Select the option which is consistent with your facility. The selected format determines how patient information is passed between STAR Laboratory and the ABB system and becomes the method of accessing a specific patient on the ABB system.

12. WSBB YEAR FORMAT/4 DIGITS
As the WSBB Interface can accommodate a 2- or 4-digit year, set this field to match the WSBB parameter. The following prompt displays:

Do you wish to use 4 digits for the year? (Y/N) [N]--

Upon completion of all required fields, the following prompt displays:

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

Accept the entries presented on the screen by pressing ENTER or entering **Y**. You may edit the fields by entering **N**.

Upon screen acceptance, the system displays the following message:

Filed!

Impact

Acceptance of this screen files the parameters used for the ABB interface.

ABB-->Lab Audit

This audit function allows you to review transaction records passed from the ABB system to STAR Laboratory (within the audit retention period). This can be done for both results transactions and request update transactions.

Select the Maintenance - Adv Bld Bnk Int option of the Laboratory Maintenance Functions Menu.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the ABB --> Lab Audit Processor from the Laboratory Adv Blood Bank Interface Maintenance Functions Menu. The following screen displays

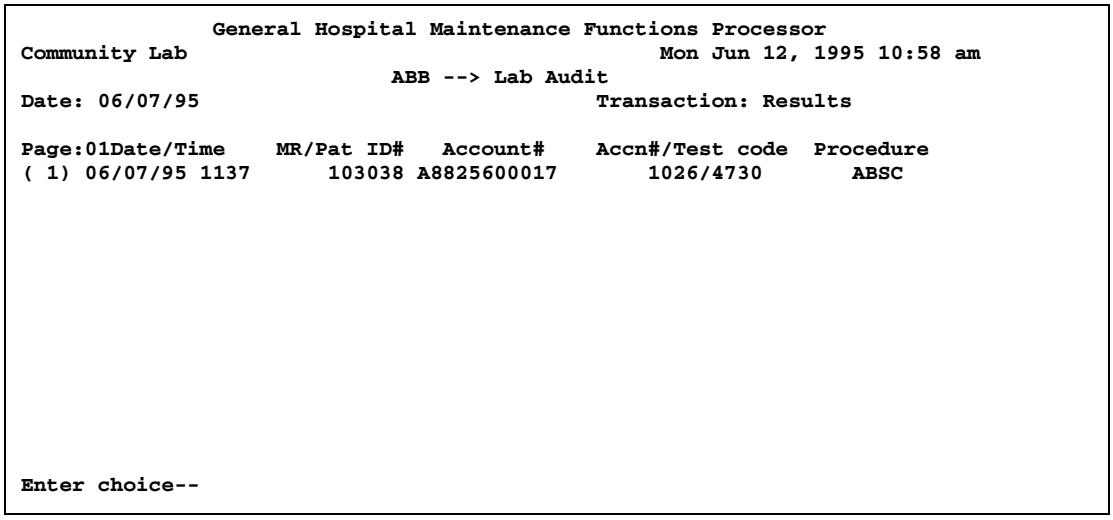
```
              General Hospital Maintenance Functions Processor
Community Lab                                    Mon Jun 12, 1995 10:58 am
                            ABB --> Lab Audit









Enter date to review [today] --
```

The first step is to enter the date to review. The default is the current date. Note the date entered must be within the retention period defined for your laboratory.

For more information on data entry at this prompt, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

```
               General Hospital Maintenance Functions Processor
Community Lab                                    Mon Jun 12, 1995 10:58 am
                              ABB --> Lab Audit
Date: 06/07/95

Page:01                     Incoming Transaction Types
( 1) T-Results
( 2) U-Request Update









Select transaction type to review --
```

Depending on the incoming transaction types defined for your laboratory, a list of transaction types displays for selection. Enter the option number corresponding to the desired transaction type.



The transaction type selected displays in the upper right portion of the screen. The following information is provided for each Result transaction passed from the ABB system to STAR Laboratory on the specified date:

Field Explanations

DATE/TIME (DISPLAY ONLY)
The transaction date and time display in this field.

MR/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

ACCN#/TEST CODE (DISPLAY ONLY)
The accession number and test code for this transaction display in this field.

PROCEDURE (DISPLAY ONLY)
The procedure code and record type code for this transaction display in this field. Select the transaction to view by entering the corresponding option number.

```
              General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 10:58 am
                           ABB --> Lab Audit
Date: 06/07/95                                Transaction: Results

 1 Date/Time        2 HBOC Internal #   3 Med Rec/Pat ID# 4 Account #
   06/07/95 1137      670                 103038            A8825600017
 5 Accession#     6 Test Code  7 User/Tech ID   8 Procedur 9 Bill Code
   1026             4730         MI6679           ABSC
10 Request#      11 Request Rec#     12 Record Type
   00045            01                  S-Antibody Screen
13 Results
Result name                  Value
Interp                       POS









Press NL--
```

Field Explanations

1. DATE/TIME (DISPLAY ONLY)
The transaction date and time displays in this field.

2. HBOC INTERNAL # (DISPLAY ONLY)
This is the internal number maintained on the patient by STAR Laboratory.

3. MED REC/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

4. ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

5. ACCESSION # (DISPLAY ONLY)
The accession number for this transaction displays in this field.

6. TEST CODE (DISPLAY ONLY)
The test code for this transaction displays in this field.

7. USER/TECH ID (DISPLAY ONLY)
The ID number of the technologist who transmitted/resulted the test displays in this field.

8. PROCEDURE (DISPLAY ONLY)
This field contains the procedure code for this transaction.

9. BILL CODE (DISPLAY ONLY)
This field contains the bill code. This field is optional, and is not used in the preceding example.

NOTE: When a single transaction record contains multiple charges, only the first billing code displays in the audit.

10. REQUEST # (DISPLAY ONLY)
This field contains the request number assigned by the ABB system for this accession/test code.

11. REQUEST REC # (DISPLAY ONLY)
This field contains the request record number assigned by the ABB system for this accession/test code.

12. RECORD TYPE (DISPLAY ONLY)
This field contains the record type code and name for this transaction.

13. RESULTS (DISPLAY ONLY)
This field contains the result name (assigned to the record type) and the result value for this transmission.

Press ENTER to exit this screen. The system allows you to select another transmission record to review by redisplaying the original screen of options for this date.

You can exit the screen of options by again pressing ENTER.

```
               General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 10:58 am
                              ABB --> Lab Audit
Date: 06/07/95

Page:01                     Incoming Transaction Types
( 1) T-Results
( 2) U-Request Update









Select transaction type to review --
```

When you have finished viewing a selected transaction type, the system allows you to select another transaction type to view for the same date. To view a different date, press ENTER again and enter the date at the prompt.

The Request Update is a message from the ABB system to STAR Laboratory. This message contains the Request Number and Request Record Number for an accession/test code. A Request Update is sent each time the ABB system receives an order/request from STAR Laboratory (for example, whenever an ABB test is accessioned).

```
              General Hospital Maintenance Functions Processor
Community Lab                                      Mon Jun 12, 1995 10:58 am
                              ABB --> Lab Audit
Date: 06/07/95                                  Transaction: Request Update

Page:01Date/Time    MR/Pat ID#   Account#    Accn#/Test code  Request
( 1) 06/07/95 0729      103038 A8825600017       1016/4701     000081
( 2) 06/07/95 0733      103036 A8825600016       1017/4700     000082
( 3) 06/07/95 0735      103036 A8825600016       1018/4701     000083
( 4) 06/07/95 0737      103036 A8825600016       1019/4700     000084
( 5) 06/07/95 0738      103038 A8825600017       1020/4700     000085
( 6) 06/07/95 0740      103043 A8825700001       1021/4700     000086
( 7) 06/07/95 0743      103043 A8825700001       1021/4700     000086
( 8) 06/07/95 0744      103036 A8825600016       1022/4700     000087
( 9) 06/07/95 0745      103036 A8825600016       1022/4700     000087
(10) 06/07/95 0745      103043 A8825700001       1023/4700     000088
(11) 06/07/95 0746      103043 A8825700001       1023/4700     000088
(12) 06/07/95 0754      103038 A8825600017       1024/4700     000089
(13) 06/07/95 0755      103038 A8825600017       1024/4700     000089
(14) 06/07/95 1545      103036 A8825600016       1025/4730     000090
(15) 06/07/95 1611      103038 A8825600017       1026/4730     000091

Enter choice--
```

The transaction type displays in the upper right portion of this screen. This screen displays all Request Update transmissions for the selected date with the following data. Enter the option number of the record to view.

Field Explanations

DATE/TIME (DISPLAY ONLY)
The transaction date and time display in this field.

MR/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

ACCN#/TEST CODE (DISPLAY ONLY)
The accession number and test code for this transaction display in this field.

REQUEST (DISPLAY ONLY)
This field contains the request number assigned by the ABB system for this accession/ test code.

Once the Request Update transmission is selected, the following screen displays

```
              General Hospital Maintenance Functions Processor
Community Lab                                    Mon Jun 12, 1995 10:58 am
                           ABB --> Lab Audit
Date: 06/07/95                                Transaction: Request Update

 1 Date/Time        2 HBOC Internal #   3 Med Rec/Pat ID# 4 Account #
   06/07/95 0729      670                 103038            A8825600017
 5 Accession#     6 Test Code  7 Request #      8 Procedure   Req Rec#
   1016             4701         000081           ABORH        02
                                                  XMATCH       03









Press NL--
```

Field Explanations

1. DATE/TIME (DISPLAY ONLY)
The transaction date and time display in this field.

2. HBOC INTERNAL # (DISPLAY ONLY)
This is the internal number maintained on the patient on STAR Laboratory.

3. MED REC/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

4. ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

5. ACCESSION # (DISPLAY ONLY)
The accession number for this transaction displays in this field.

6. TEST CODE (DISPLAY ONLY)
The test code for this transaction displays in this field.

7. REQUEST # (DISPLAY ONLY)
This field contains the request number assigned by the ABB system for this accession/ test code.

8. PROCEDURE (DISPLAY ONLY)
This field contains the procedure code(s) for this transaction.

9. REQUEST REC # (DISPLAY ONLY)
This field contains the request record number(s) assigned to each procedure by the ABB system for this accession/test code.

Press ENTER to exit this screen. The system allows you to select another transmission record to review by redisplaying the original screen of options for this date.

You can exit the screen of options by again pressing ENTER.

Lab-->ABB Audit

This audit function allows you to review transmissions going from STAR Laboratory to the ABB system (within the audit retention period). This can be done for any of eleven possible transaction types. These eleven transaction types are displayed for selection after the Lab --> ABB Audit processor is selected and the date to review is entered. Example screens are provided for two of these transaction types.

Select the Maintenance - Adv Bld Bank Int option of the Laboratory Maintenance Functions Menu.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                  Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface



Enter choice--
```

Next, select the Lab --> ABB Audit processor from the Laboratory Adv Blood Bank Interface Maintenance Functions menu.

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                      Mon Jun 12, 1995 10:59 am
                            Lab --> ABB Audit









Enter date to review (MM/DD/YY) [today] --
```

The first step is to enter the date to review. The default is the current date. Note the date entered must be within the retention period defined for your laboratory.

For more information on data entry at this prompt, refer to Chapter 4: Information Entry Techniques in the *General Information Volume* of the *STAR Laboratory Reference Guide*.

ADMISSION TRANSACTION

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                      Mon Jun 12, 1995 10:59 am
                            Lab --> ABB Audit
Date: 06/07/95

Page:01                    Outgoing Transaction Types
( 1) B-Admission
( 2) D-Cancel Discharge
( 3) E-Cancel Request
( 4) F-Discharge
( 5) I-Merge Patients
( 6) O-Revision
( 7) P-Transfer
( 8) Q-Visit Transfer
( 9) R-Unit Number Change
(10) S-Request/Order
(11) Z-Table Updates




Select transaction type to review --
```

Select the outgoing transaction type by entering the corresponding option number.

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                        Mon Jun 12, 1995 10:59 am
                          Lab --> ABB Audit
Date: 06/07/95                                Transaction: Admission

Page:01Date/Time    MR/Pat ID#   Account#    Name
( 1) 06/07/95 0728      103038 A8825600017 JONES,MARY A
( 2) 06/07/95 0732      103036 A8825600016 SMITH,MIKE
( 3) 06/07/95 0732      103036 A8825600016 SMITH,MIKE
( 4) 06/07/95 0735      103036 A8825600016 SMITH,MIKE
( 5) 06/07/95 0735      103038 A8825600017 JONES,MARY A
( 6) 06/07/95 0736      103043 A8825700001 BARR,JACK A
( 7) 06/07/95 0736      103043 A8825700001 BARR,JACK A
( 8) 06/07/95 0743      103036 A8825600016 SMITH,MIKE
( 9) 06/07/95 0743      103036 A8825600016 SMITH,MIKE
(10) 06/07/95 0744      103043 A8825700001 BARR,JACK A
(11) 06/07/95 0744      103043 A8825700001 BARR,JACK A
(12) 06/07/95 0744      103038 A8825600017 JONES,MARY A
(13) 06/07/95 1543      103036 A8825600016 SMITH,MIKE
(14) 06/07/95 1609      103038 A8825600017 JONES,MARY A

Enter choice--
```

The transaction type selected displays in the upper right portion of the screen. Select the transaction to view by entering the corresponding option number. The following information is provided for each transaction passed from the STAR Laboratory system to the ABB system on the specified date.

Field Explanations

DATE/TIME (DISPLAY ONLY)
The transaction date and time display in this field.

MR/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

NAME (DISPLAY ONLY)
The patient's name displays in this field.

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                      Mon Jun 12, 1995 10:59 am
                            Lab --> ABB Audit
Date: 06/07/95                                  Transaction: Admission

 1 Date/Time       2 Med Rec/Pat ID# 3 Account #    4 Patient Name
   06/07/95 0728     103038            A8825600017    JONES,MARY A
 5 Birthdate         6 Sex       7 Race       8 Diagnosis
   11/01/1954          F           CAUC         0010
 9 Admit Date    10 Att Physician    11 Location
   06/03/95         801                1E









Place in Queue to retransmit? (Y/N) [N] --
```

Field Explanations

1. DATE/TIME (DISPLAY ONLY)
The transaction date and time display in this field.

2. MED REC/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

3. ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

4. PATIENT NAME (DISPLAY ONLY)
The patient's name displays in this field.

5. BIRTHDATE (DISPLAY ONLY)
The patient's date of birth displays in this field.

6. SEX (DISPLAY ONLY)
The patient's sex displays in this field.

7. RACE (DISPLAY ONLY)
The patient's race displays in this field.

8. DIAGNOSIS (DISPLAY ONLY)
The patient's diagnosis displays in this field.

9. ADMIT DATE (DISPLAY ONLY)
The patient's date of admission displays in this field.

10. ATT PHYSICIAN (DISPLAY ONLY)
The patient's attending physician displays in this field.

11. LOCATION (DISPLAY ONLY)
The patient's location/patient type displays in this field.

The following prompt displays on this screen:

Place in Queue to retransmit? (Y/N) [N] --

Enter **Y** to place this transaction in a queue to be retransmitted to the ABB system. The following message displays:

Queued for Retransmission!

You can exit this screen by again pressing ENTER.

Impact

This screen is for display only. However, the transaction can be placed in the interface queue to be retransmitted to the ABB system.

REQUEST/ORDER TRANSACTION

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                      Mon Jun 12, 1995 10:59 am
                            Lab --> ABB Audit
Date: 06/07/95

Page:01                    Outgoing Transaction Types
( 1) B-Admission
( 2) D-Cancel Discharge
( 3) E-Cancel Request
( 4) F-Discharge
( 5) I-Merge Patients
( 6) O-Revision
( 7) P-Transfer
( 8) Q-Visit Transfer
( 9) R-Unit Number Change
(10) S-Request/Order
(11) Z-Table Updates



Select transaction type to review --
```

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                        Mon Jun 12, 1995 10:59 am
                            Lab --> ABB Audit
Date: 06/07/95                                  Transaction: Request/Order

Page:01Date/Time    MR/Pat ID#   Account#    Accn#/Test code
( 1) 06/07/95 0728      103038 A8825600017       1016/4701
( 2) 06/07/95 0732      103036 A8825600016       1017/4700
( 3) 06/07/95 0732      103036 A8825600016       1018/4701
( 4) 06/07/95 0735      103036 A8825600016       1019/4700
( 5) 06/07/95 0735      103038 A8825600017       1020/4700
( 6) 06/07/95 0736      103043 A8825700001       1021/4700
( 7) 06/07/95 0736      103043 A8825700001       1021/4701
( 8) 06/07/95 0743      103036 A8825600016       1022/4700
( 9) 06/07/95 0743      103036 A8825600016       1022/4701
(10) 06/07/95 0744      103043 A8825700001       1023/4700
(11) 06/07/95 0744      103043 A8825700001       1023/4701
(12) 06/07/95 0744      103038 A8825600017       1024/4700
(13) 06/07/95 0744      103038 A8825600017       1024/4701
(14) 06/07/95 1543      103036 A8825600016       1025/4730
(15) 06/07/95 1610      103038 A8825600017       1026/4730

Enter choice--
```

The transaction type selected displays in the upper right portion of the screen. The following information is provided for each transaction passed from STAR Laboratory to the ABB system on the specified date:

Field Explanations

DATE/TIME (DISPLAY ONLY)
The transaction date and time display in this field.

MR/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

ACCN#/TEST CODE (DISPLAY ONLY)
The accession number and test code for this transaction display in this field.

Select the transaction to view by entering the corresponding option number.

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                      Mon Jun 12, 1995 10:59 am
                              Lab --> ABB Audit
Date: 06/07/95                                  Transaction: Request/Order

 1 Date/Time        2 HBOC Internal #   3 Med Rec/Pat ID# 4 Account #
   06/07/95 0728      670                103038            A8825600017
 5 Accession#     6 Test Code  7 Ordering Doc   8 Ordered Date/Time
   1016             4701         801              06/07/95 0728
70 Spec Rec Date/time 10 Required Date/Time    11 Requiring Location
   06/07/95 0728         06/07/95 0728            1E
12 Procedures Requested
Procedure           Component      Quantity
ABORH                                 1
XMATCH                WB              1









Place in Queue to retransmit? (Y/N) [N] --
```

Field Explanations

1. DATE/TIME (DISPLAY ONLY)
The transaction date and time display in this field.

2. HBOC INTERNAL # (DISPLAY ONLY)
This is the patient's internal number assigned by STAR Laboratory.

3. MED REC/PAT ID # (DISPLAY ONLY)
The patient identification number (in the specified format) displays in this field.

4. ACCOUNT # (DISPLAY ONLY)
The patient account number displays in this field.

5. ACCESSION # (DISPLAY ONLY)
The accession number for this transaction displays in this field.

6. TEST CODE (DISPLAY ONLY)
The test code for this transaction displays in this field.

7. ORDERING DOC (DISPLAY ONLY)
The ID code of the physician who ordered the test displays in this field.

8. ORDERED DATE/TIME (DISPLAY ONLY)
This field contains the date and time this order was placed on STAR Laboratory/STAR Patient Care.

9. SPEC REC DATE/TIME (DISPLAY ONLY)
This field contains the date and time the specimen was received on STAR Laboratory.

10. REQUIRED DATE/TIME (DISPLAY ONLY)
This field contains the date and time the test results/blood component is required for this transaction. This always defaults to the accession date and time.

11. REQUIRING LOCATION (DISPLAY ONLY)
This field contains the hospital location (or patient type for outpatients) from which the order originated.

12. PROCEDURES REQUESTED (DISPLAY ONLY)
This field contains the procedure(s) requested on the ABB system for this accession.

The following prompt displays on this screen:

Place in Queue to retransmit? (Y/N) [N] --

Enter **Y** to place this transaction in a queue to be retransmitted to the ABB system. The following message displays:

Queued for Retransmission!

To exit the screen, press ENTER or enter **N**. The system allows you to select another transmission record to review by redisplaying the original screen of options for this date.

You can exit this screen by again pressing ENTER.

Impact

This screen is for display only; however, the transaction can be placed in the interface queue to be retransmitted to the ABB system.

NOTE: For the LifeLine Interface the Date of Service is the Collection Date for all procedures such as Type and Screen, Crossmatch, etc. For components such as Packed Cells, Platelets, etc. the Date of Service is the component's Transfused Date.

Start/Stop Interface for the Asynchronous Environment

Select the Maintenance - Adv Bld Bank Int Option of the Laboratory Maintenance Functions menu.

```
       General Hospital Maintenance Functions Processor
LABORATORY                                        Wed Jan 25, 1995 10:08 am

                 Adv Blood Bank Interface Maintenance Functions   Page:01
( 1) A - Antibodies
( 2) A - Antigens
( 3) A - Blood Bank Procedures
( 4) A - Blood Components
( 5) A - Blood Dispositions
( 6) A - Blood Unit Source
( 7) B - Bld Bk Procedures per Test
( 8) C - Adv Bld Bnk Result Mapping
( 9) C - Product Detail Reporting
(10) Maintenance Types - ABB Int
(11) Maintenance Types List - ABB I
(12) Y - Interface Parameters
(13) Z - ABB --> Lab Audit
(14) Z - Lab --> ABB Audit
(15) Z - Start/Stop Interface




Enter choice--
```

Next, select the Start/Stop Interface processor from the Laboratory Adv Blood Bank Interface Functions menu.

```
          General Hospital Maintenance - Adv Bld Bank Int Processor
Community Lab                                     Mon Jun 12, 1995 03:27 pm









                    Advance Blood Bank Interface Active









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

Depending on the current state of interface operation, the system prompts you to either start or halt the interface. You are then prompted to confirm that this is what you want to do before the interface is actually halted or started.

The system displays the previous screen when you select this option to stop the interface.

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

Impact

Starting or activating the interface establishes the communication link with the STAR Laboratory system. Halting the interface shuts down the communication link on STAR Laboratory. You must halt the interface on STAR Laboratory first, then on the ABB system.

Chapter 3 - Applications

Illustrations

INTRODUCTION

This chapter describes how the Patient Inquiry and Result Entry processors can use the Advanced Blood Bank (ABB) interface.

The ABB interface provides a network link between the STAR Laboratory system and the LifeLine Blood Bank system. The Mediware LifeLine Blood Bank system is referred to as the Advanced Blood Bank (ABB) system throughout this document.

Orders for ABB tests, (for example, crossmatches, blood type, and antibody screen), originate on STAR Patient Care or STAR Laboratory. Once the specimen is received and the test accessioned, a request is passed to the ABB system via the interface. The request is translated into specific blood bank procedures dependent on the accessioned test. The laboratory defines which procedures are to be performed for each ABB test. STAR Laboratory also passes the prompt, prompt response, and accession comment to the ABB system using the message transaction of the ABB Interface.

As procedures are completed on the ABB system, certain results are transmitted to STAR Laboratory through the interface and available on STAR Patient Care through Patient Inquiry.

The following record transactions are passed from STAR Laboratory to the ABB system through the interface:

Admission/Registration

- Cancel Discharge
- Cancel Request
- Discharge
- Merge Patients
- Revision
- Transfer
- Transfer Visit
- Unit Number Change
- Table Updates
  - Physician
  - Diagnosis

- Blood Component
- Location (Station/Patient Types/DIS)
- Tech ID
- Antibodies
- Antigens

• Request Transactions (Maximum of 8 procedures/request)

These record transactions may originate on either STAR Patient Care or STAR Laboratory. It is important to note that not all of these transactions are relevant to the ABB system and may only be logged on the interface printer. For example, a discharge on STAR Patient Care, although passed to the ABB system, does not initiate a discharge or removal of patient data from the ABB system. The discharge is sent as information only and not recorded in the ABB database since it is account-based information irrelevant to the Medical Record/Unit number.

In the event the ABB system is down, requests are queued on STAR Laboratory for transfer when the ABB system is restored. Audit processors are provided for review and transmission of this information when necessary. The following record transactions are passed from the ABB system to STAR Laboratory through the interface:

• Request Update

• Results

- ABO & Rh
- Direct Antiglobulin Test (DAT)
- Antigen Testing
- Antibody Testing
- Other Testing
- Antibody Screen Testing
- Crossmatch Results (providing status of each unit crossmatched)

  Status Types:

  Crossmatched (available)

Issued (issued)

Transfused (transfused)

Expired Crossmatch (expired)

Issued & Returned (available)

Crossmatched & Issued & Returned (available)

Crossmatched & Issued & Returned & Cancelled (cancel)

Crossmatched & Issued & Returned & Quarantined (quarantine)

Setup (available)

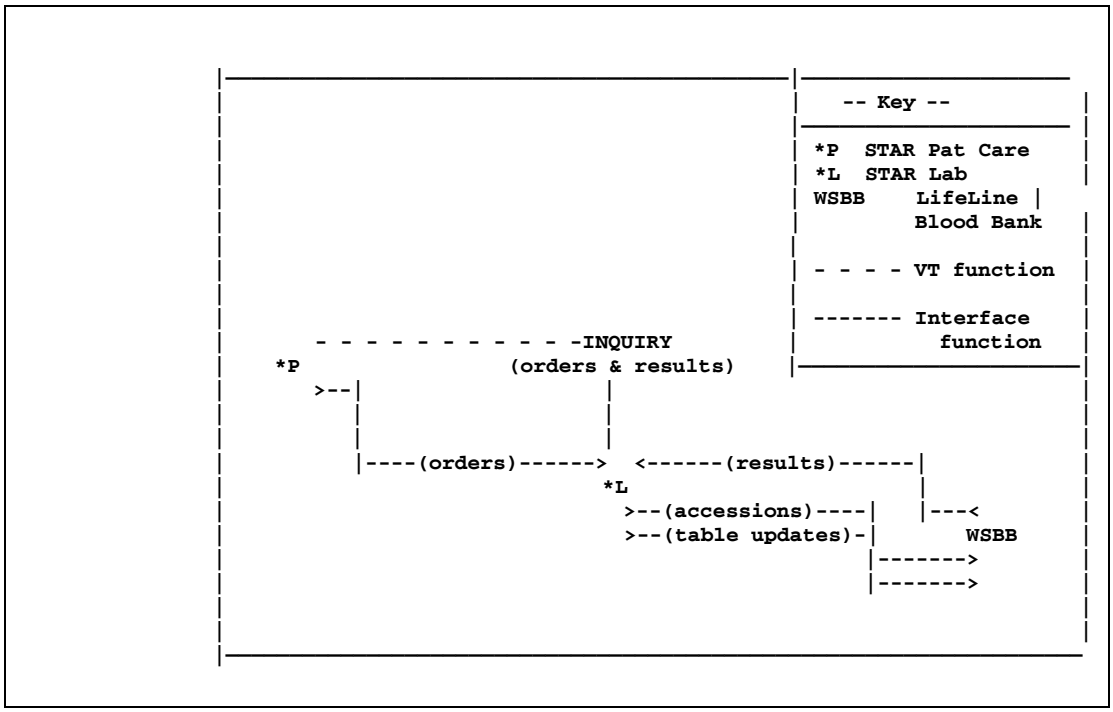
Cancel Transfusion (cancel)

These record transactions (with the exception of crossmatches) are linked to specific test results on STAR Laboratory. For tests including a crossmatch, the ABB system transmits the status of each crossmatched unit. Only interpretation results, not test reactions, are transmitted to STAR Laboratory. For example, an ABO & Rh is transmitted as one result, *A pos*. Specific test reactions such as A cells, B cells, Anti-A, and Anti-B are retained on the ABB system and are not transmitted to STAR Laboratory. All transmitted (external) results are available for viewing within Patient Inquiry.

In the event that STAR Laboratory is down, results completed on the ABB system are queued until STAR Laboratory is restored. Audit processors are provided for review and transmission of this information when necessary.

Transaction Flow Diagram

Figure 3.1 Interface Flow



Functional Overview

As patients are admitted/registered on STAR Patient Care or STAR Laboratory, no message or transaction is passed to the ABB system. Only after an order including an ABB test(s) is accessioned on STAR Laboratory does an admit message and a request/order record transmit to the ABB system. The ABB system adds or updates the patient's record according to the information received. The unit number assigned by STAR Patient Care/STAR Laboratory is used by the ABB system and converted to a predefined format as specified in the interface parameters during initial setup. The Location field is either the nursing station (code) of the patient's current location (in the case of an in-house patient) or the patient type (for patients not in-house). The patient's name consists of last, first, and middle name, up to 24 characters. Both the demographic and request information passed to the ABB system prints on the interface printer on the ABB system.

Once the request/order record is processed by the ABB system, a Request Update message is transmitted from the ABB system to STAR Laboratory. A request number is assigned by the ABB system to each accession received from STAR Laboratory. This number is included in the request update message and can be viewed under the general information data within Patient Inquiry.

In addition to the request number assigned to each accession, a request record number is also assigned by the ABB system to each individual ABB procedure

requested as part of the accessioned test. This information can be viewed in the ABB-->STAR Audit processor.

For the LifeLine Interface the Date of Service is the Collection Date for all procedures such as Type and Screen, Crossmatch, etc. For components such as Packed Cells, Platelets, etc. the Date of Service is the component's Transfused Date.

In addition, the following data fields can be viewed within this audit processor:

DATE/TIME
The transaction date and time display in this field.

HBOC INTERNAL #
This is the internal number maintained on the patient by STAR Laboratory.

MED REC/PAT ID #
The patient identification number (in the specified format) displays in this field.

ACCOUNT #
The patient account number displays in this field.

ACCESSION #
The accession number for this transaction displays in this field.

TEST CODE
The test code for this transaction displays in this field.

USER/TECH ID
The ID number of the technologist who transmitted/resulted the test displays in this field.

PROCEDURE
This field contains the procedure code for this transaction.

BILL CODE
This field is optional and contains the bill code. For a miscellaneous charge, the bill code must match the SIM code on STAR Laboratory.

REQUEST #
This field contains the request number assigned by the ABB system for this accession/ test code.

REQUEST REC #
This field contains the request record number assigned by the ABB system for this accession/test code.

RECORD TYPE
This field contains the record type code and name for this transaction.

RESULTS
This field contains the result name (assigned to the record type) and the result value for this transmission.

A Lab-->ABB Audit processor also exists for transmissions originating on STAR Laboratory. Data elements that can be viewed within this processor include:

DATE/TIME
The transaction date and time display in this field.

MED REC/PAT ID #
The patient identification number (in the specified format) displays in this field.

ACCOUNT #
The patient account number displays in this field.

PATIENT NAME
The patient's name displays in this field.

BIRTHDATE
The patient's date of birth displays in this field.

SEX
The patient's sex displays in this field.

RACE
The patient's race displays in this field.

DIAGNOSIS
The patient's diagnosis displays in this field.

ADMIT DATE
The patient's date of admission displays in this field.

ATT PHYSICIAN
The patient's attending physician displays in this field.

LOCATION
The patient's location/patient type displays in this field.

The Lab-->ABB Audit processor allows retransmission of selected records from STAR-Laboratory to the ABB system.

As stated, orders for ABB tests (for example, crossmatches, blood type, and screen), originate on STAR Patient Care or STAR Laboratory. Once the test is accessioned, a request is passed to the ABB system via the interface. The request is translated into specific blood bank procedures dependent on the accessioned test. The laboratory defines which procedures are performed for each ABB test.

This Application Section describes processors which fall into one of two groups:

- Patient Inquiry
- Results Entry

PATIENT INQUIRY

Patient Inquiry provides information on the number of blood components by status (for example crossmatched, issued, or transfused). This information is not specific to a particular accession (order). In other words, the total reflects all accessions (orders) within an account.

Select the Blood Bank option from the Laboratory Input Options menu. Select the Patient Inquiry option from the Blood Bank Input Options menu. The location of the Blood Bank option is user-defined and may differ from the Laboratory Input Option menu at your installation.

```
                General Hospital Community Lab Processor
                                                Mon Jun 12, 1995 10:40 am
Community Lab Input Options

            Option No.  Option
            ---------------------------------------
                1       Order Inquiry
                2       Patient Inquiry

                3       Administration
                4       Blood Bank
                5       Central Processing
                6       Chemistry I
                7       Chemistry II
                8       Front Office
                9       Hematology
               10       Microbiology
               11       Send Outs
               12       Anatomic Pathology
               13       Urinalysis
               14       Immunology

Enter option number--
```

```
                  General Hospital Blood Bank Processor
                                                Mon Jun 12, 1995 04:17 pm
Blood Bank Input Options

            Option No.  Option
            ---------------------------------------
                1       Order Inquiry
                2       Patient Inquiry
                3       Accessioning
                4       Incomplete Work
                5       Cross Match Bay
                6       Blood Bank Tests
                7       Miscellaneous Charge/Credit
                8       Miscellaneous Charge Report









Enter option number--
```

Enter the option number for the Patient Inquiry option.

```
                  General Hospital Patient Inquiry Processor
                                                    Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  COLEMAN,MARK  SUR 10  I/P 11

                                              Date:  06/09/93
Acct#: A8825600016
Opt#   Order#         Acc #  Test Name                Time       Status
  1                    1030  CROSSMATCH 2 UNITS       1426       Done     *STAT
                         Spec Type:Blood
  2                    1029  CROSSMATCH 4 UNITS       1122       Done     *STAT
                         Spec Type:Blood
  3                    1028  ANTIBODY ID              1100       Done









                           All work listed for: 09/20/92
Enter option(s), (Sep by ','s), All(A) or 'P' for previous day or date--*
                                 other options(*)
```

The preceding Patient Inquiry screen displays after selecting the patient and/or the account to view.

NOTE: For more information on Patient Inquiry data entry options, refer to Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

At this point, you can enter an asterisk (*) to display additional review options, or you can enter **B** to view the Blood Product Availability screen. For more information on data entry at this prompt, refer to Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

In this example, an asterisk was entered for additional options. The following prompt then displays:

Reverse(R), History Cardfile(H), Blood Product avail(B), Test Lookup(L), (D)x--
primary options(*)

To view blood product availability, enter **B**.

```
                  General Hospital Patient Inquiry Processor
                                                  Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  COLEMAN,MARK  SUR 10  I/P 11

                              Account Numbers
  #  Acct #          Type  Doctor             Service   Adm Date    Expected
(1) A8825600016      I/P   COLEMAN,MARK       SUR     06/10/95
(2) A8825600202      DIS   BABB,GARY H        ERS     06/13/95

Select account(s) to view blood product availability [Current accounts(s)]--
                              end selection(NL)
```

If more than one account exists for the patient, you are provided the option of selecting the account(s) to view. The default is the current account(s) (in other words, the one(s) selected upon initial entry to Patient Inquiry).

After you select the account(s), 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
A000000033 MURRAY,FRED      M  09/07/1962 1303-1  COLEMAN,MARK  SUR 10  I/P

                   Ordered Avail Issued  Trans  Expired  Cancel  Quarantine
Fresh Frozen Plasma                       1
Platelet                 1                                        1
Whole Blood          3
                    ------  -----  -----  -----  -----  ------  ----------
Total                  3      1       0      1       0       0      1

View product detail (D)--
```

Pressing ENTER or period (.) ENTER returns you to the main Patient Inquiry screen.

The Blood Products Availability screen consists of the following sections:

1. Header: Standard patient demographics

2. Blood Components/Products: The blood components ordered (accessioned in STAR Laboratory) are displayed down the left side of the screen.

3. Product Status Columns:

    - Ordered
    - Available
    - Issued
    - Transfused
    - Expired
    - Cancel
    - Quarantine

The system updates the Ordered column when you accession the ordered test. The system decrements the value in the Ordered column when an order cancellation or specimen rejection is completed on an order in a Spec Rec'd status. If the test has a Partial or Done status, processing on the ABB system may have already occurred and the system does **not** decrement the value in the Ordered column.

When units are crossmatched into the ABB system, the Available column is updated. When a unit is posted as transfused in the ABB system, the Transfused column is updated. When a unit is marked as expired in the ABB system, the Expired column is updated.

The following prompt displays at the bottom of the screen:

View product detail (D) --

Pressing ENTER or period (.) ENTER returns you to the main Patient Inquiry screen.

Enter **D** at the prompt to display the following Blood Product Detail screen:

```
              General Hospital Blood Bank Patient Inquiry Processor
                                                  Wed Jun 16, 2010 05:30 pm
Unit #     Name             Sex Birthdate  Room    Physician     Srv ICD Status
B000005974 FLANDERS,ACTIVE  F  04/01/1960 3001-1  ADAIR,FRANK C CAR 10  I/P 442

Acct#: B0909100001           Blood Product Detail
Product               Unit#_Prod Code/Pool Unit#  ABO/Rh Status D/T Last Status
Red Blood Cells       W045110152130_E4545V00      O POS  Avail   06/16/10 1719
Red Blood Cells       W045110152131_E4545V00      O POS  Avail   06/16/10 1719
Red Blood Cells       W045110152132_E4545V00      O POS  Avail   06/16/10 1719
Platelet              W045110157901_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157902_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157904_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157905_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157896_E0010V00      O POS  Transf  06/16/10 1729
Platelet              W045110157900_E0010V00      O POS  Transf  06/16/10 1729









                     F1Prev Page F2Next Page F7  Exit
```

Screen Layout

HEADER INFORMATION

Line 1
The first line contains the screen title.

Line 2
The second line contains the current date.

Line 3
Patient demographics such as name, sex, and birthdate display on the third line.

Line 4
Patient demographics also display on Line 4.

SCREEN BODY

Account #
The selected account number displays on the fifth line of report.

Blood Product Detail
Blood product detail information is account-specific and displays in scrolling-screen format in the following order.

- Product description

- Unit number and product code/pool unit number
- Product type/Rh (if applicable)
- Last product status update
- Date and time of the last status

If the original blood product availability request includes multiple patient accounts, the blood product detail information for the most current patient account displays first, followed by the next account in reverse chronological order. The product status sorts in the following order:

- Available
- Issued
- Transfused
- Expired
- Cancel
- Quarantine

The product sorts in alphabetical order by product code. The date/time of last status sorts in reverse chronological order.

The blood product information accessible on STAR Laboratory reflects data received through the STAR Laboratory Advanced Blood Bank Interface from the designated advanced blood bank system. N/A in any field on this screen denotes that data for field was not transmitted from the designated advanced blood bank system. For detailed documentation on the blood product information transmitted from the designated advanced blood bank system to STAR Laboratory, refer to the Advanced Blood Bank System documentation.

Field Explanations

PRODUCT (DISPLAY ONLY)
The blood product description displays in this column. Up to 22 characters display.

UNIT#_PROD CODE/POOL UNIT# (DISPLAY ONLY)
This column displays the unit number and product code, if present. If the pool unit # is also present, the next line contains *(cont'd)* followed by the pool unit #.

ABO/RH (DISPLAY ONLY)
The blood product ABO/Rh displays in this column. The system displays a maximum of six characters.

STATUS (DISPLAY ONLY)
The last product status update received from the designated Advanced Blood Bank system displays in this column. The system displays a maximum of seven characters.

D/T OF LAST STATUS (DISPLAY ONLY)
The status update date/time displays in this column. STAR Laboratory logs the date and time of the last product status update transaction received from the designated ABB system. The format is MM/DD/YY. The system displays a maximum of 13 characters.

Screen Prompt
When you access the scrolling screen, the system displays the following prompt at the bottom of the screen:

F1Prev Page F2Next Page F7Exit

If the original blood product availability request includes multiple patient accounts, the account information displays information in reverse chronological order, beginning with the current account. Press **F1** and **F2** to scroll through multiple pages of information for a specific patient account. Press **F7** to exit the current account and display detail blood product information for the next account. After you review all requested accounts, press **F7** to exit the screen. The system redisplays the main Patient Inquiry screen.

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*.

Diagnosis Option
Enter **D** and the following screen is displayed:

```
             General Hospital Blood Bank Patient Inquiry Processor
                                                 Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
B000002312 TEST,B           M  05/05/1955 1001-2  ADAIR,FRANK C PSY 10  I/P 46


                  Code    Description
ADMITTING         757.9   INTEGUMENT ANOMALY NOS
WORKING           757.9   INTEGUMENT ANOMALY NOS

SECONDARY (1)             ABCDEFGHIJKLMNOPQRSTUVWXYZ12345678









Press NL--
```

All the diagnoses for the patient that were entered during Admission are displayed and cannot be edited.

The list of diagnoses can also be accessed by choosing from the list of Patient Inquiry options displayed on the following screen. The screen is displayed when a patient's test is chosen and an asterisk (*) is entered at the following prompt:

Enter option--

```
            General Hospital Blood Bank Patient Inquiry Processor
                                                Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
B000002312 TEST,B           M  05/05/1955 1001-2  ADAIR,FRANK C PSY 10  I/P 46
                            Acct #: B0411800001
              Accession # 1022 GLUCOSE, FASTING UPDATE23
Specimen: Blood                                      Ordered for: 05/05/04 0842


           D - Admit Dx List           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
           L - Test Lookup             T - Tracking









Enter option--
                                  * = Options
```

Patient Reports

The Blood Product Detail Report prints as a summary page(s) after all of the test results and the Notification page. This report prints only if the specific Patient Report is defined to include blood product information and information is available on the specific patient account. The Advanced Blood Bank Interface Product Detail Reporting builder enables you to define whether or not detailed blood product information will be print on the following Patient Reports:

- Cumulative Trend
- New Work Summary
- Discharge
- Post Discharge
- Outpatient Summary
- Interim Summary

- Patient Detail
- Physician Summary
- Contract Patient
- Archive Lab Summary

NOTE: The New Work Summary report prints prior to the Cumulative Trend report for the selected patient. If both reports are defined to include blood product detail information, the Blood Product Detail report will print after the New Work Summary report and the Cumulative Trend report for the patient. If a Blood Product Detail report is the last page of the patient's report, then the *End of Report* message prints on this page not on the long report page.

An example of the Blood Product Detail report follows.

```
                          Model Hospital C
                       Thu May 27, 2010 10:51 am
                  Patient Detail Report-Blood Prod Detail

Pat Name:           CTEST,PATIENT                              Pg 2
Unit #/Acct #:      0000000091/C1014000001
Loc:                LBC L101 1
Phys-Serv:          DOCTOR,ADMITTING ONEXXXXX-MEDICALXX

*******************************************************************************

                            BLOOD PRODUCT DETAIL

Account #: C1014000001
Product               Unit#_Prod Code/Pool Unit#  ABO/Rh Status D/T Last Status
-------------------------------------------------------------------------------
Red Blood Cells       W045110152130_E4545V00      O POS  Avail   06/16/10 1719
Red Blood Cells       W045110152131_E4545V00      O POS  Avail   06/16/10 1719
Red Blood Cells       W045110152132_E4545V00      O POS  Avail   06/16/10 1719
Platelet              W045110157901_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157902_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157904_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157905_E0010V00      O POS  Transf  06/16/10 1730
Platelet              W045110157896_E0010V00      O POS  Transf  06/16/10 1729
Platelet              W045110157900_E0010V00      O POS  Transf  06/16/10 1729


                                End of Report
```

Report Layout

HEADER INFORMATION

The header information for the Blood Product Detail Report is report specific and adheres to the same format as the selected Patient Report. For more information on report header formats, refer to Chapter 8: Patient Reports in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

BODY OF REPORT

The following blood product information is included on the printed report:

- Product type
- Product unit number and product code/pool unit number
- Product ABO/Rh
- Last product status update
- Date and time of the last status

Blood product detail information is sorted in the following order:

- patient account
- product status
- product
- date/time of last status

The Blood Product Detail Report is account specific. If the selected Patient Report includes multiple accounts, the blood product detail information for the most current patient account prints first followed by the next account in reverse chronological order. The product status sorts in the following order:

- Available
- Issued
- Transfused
- Expired
- Cancel
- Quarantine

The product sorts in alphabetical order by product code. The date/time of last status will sort in reverse chronological order.

The blood product information accessible on STAR Laboratory reflects data received through the STAR Laboratory Advanced Blood Bank Interface from the designated advanced blood bank system. N/A in any field on this report denotes data for this field was not transmitted from the designated advanced blood bank system. For detailed documentation on the blood product information transmitted from the designated

advanced blood bank system to STAR Laboratory, refer to the Advanced Blood Bank system documentation.

BLOOD PRODUCT DETAIL
The report title prints centered on this line.

ACCOUNT #
This is the patient account number. Blood product detail information associated with this account print following this line. Up to 13 characters print. If information for a selected account is greater than one page, the following message displays next to the account number:

(Continued)

PRODUCT
The blood product description prints in this column. Up to 22 characters print.

UNIT#_PROD CODE/POOL UNIT #
The blood product unit number and product code/pool unit number prints in this column.

ABO/Rh
The blood product ABO/Rh prints in this column. Up to 6 characters print.

STATUS
The last product status update received from the designated Advanced Blood Bank system prints in this column. Up to 7 characters print.

D/T LAST STATUS
The status update date/time prints in this column. This is the STAR Laboratory system date/time logged when the last product status update transaction was received from the designated ABB system. The format is MM/DD/YY HHMM. Up to 13 characters print.

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

End of report

If the report isgreater than one page, the appropriate page breaks includethe following message at the end of each page:

(Continued on next page)

Footer Information
The footer information for the Blood Product Detail Report is report-specific and adheres to the same format as the selected Patient Report. For more information on footer report formats, refer to Chapter 8: Patient Reports in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

Crossmatch Test Example

Use of the Units Crossmatched results entry processor in STAR Laboratory to enter or edit crossmatch information automatically updates the appropriate status column in Patient Inquiry.

```
                  General Hospital Patient Inquiry Processor
                                                  Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  ADAMS,HAROLD  SUR 10   I/P 11

                                              Date:  06/09/93
Acct#: A8825600016
Opt#   Order#         Acc #  Test Name                Time       Status
  1                    1025  ANTIBODY SCREEN          1543       Done      *STAT
  2                    1022  CROSSMATCH BLOOD 1 UNIT  0742       Done      *STAT
  3                    1022  ANTIBODY ID              0742       Done      *STAT
  4                    1019  ANTIBODY ID              0735       Spec Recd*STAT
  5                    1018  CROSSMATCH BLOOD 1 UNIT  0732       Spec Recd*STAT
  6                    1017  ANTIBODY ID              0732       Spec Recd*STAT




                          All work listed for: 09/16/92
Enter option(s), All(A) or 'P' for previous day or date--
                                 other options(*)
```

```
                  General Hospital Patient Inquiry Processor
                                                  Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  ADAMS,HAROLD  SUR 10  I/P 11
                             Acct #: A8825600016
                Accession # 1022 CROSSMATCH BLOOD 1 UNIT
Specimen: Blood                                      Collected: 06/06/95 0742
Result Name              Results
Pt ABO/Rh:               A Positive
Units Crossmatched:      1









Enter option--
                                    * = Options
```

Notice the results include the interpretation (only) of the ABO/Rh typing and the number of units crossmatched (which is automatically updated by the ABB system).

In this example, **G** was entered to view General Information.

```
                 General Hospital Patient Inquiry Processor
                                                  Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  ADAMS,HAROLD  SUR 10  I/P 11
                            Acct #: A8825600016
               Accession # 1022 CROSSMATCH BLOOD 1 UNIT
Specimen: Blood                                        Collected: 09/16/92 0742
                          Accession Information
 1 Test Code   2 Number Pools               3 Order Info
   4701                                      ///2;STAT/A/LAB
 4 Ordering Location  5 Order Category      6 Ordering Physician
   ICU-ICU-01         Stat                  ADAMS,HAROLD R
 7 Order Diagnosis       8 Performing Dept       9 Current Location of Spec
   006.5-AMEBIC BRAIN A    Community Lab           Community Lab
10 Pt. type at Order    11 Sendout Req #      12 Sendout/Transfer Lab
   I/P
13 Archive Date         14 ABB Request #
                           000083



Enter option--
                                  * = Options
```

Field Explanations

14. ABB REQUEST # (DISPLAY ONLY)
This number is assigned by the ABB system for each accession of an ABB test on STAR Laboratory. This number is used as a cross-reference between the two systems. This field applies only to ABB orders for the LifeLine ABB Interface.

For more detailed information on all the fields on this screen, refer to Chapter 1: Inquiry Processors in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

Antibody Test Example

```
                General Hospital Patient Inquiry Processor
                                                  Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  1             SUR 10  I/P 11

                                              Date:  06/09/93
Acct#: A8825600016
Opt#   Order#          Acc #  Test Name                  Time       Status
  1                     1025  ANTIBODY SCREEN            1543       Done     *STAT
  2                     1022  CROSSMATCH BLOOD 1 UNIT    0742       Done     *STAT
  3                     1022  ANTIBODY ID                0742       Done     *STAT
  4                     1019  ANTIBODY ID                0735       Spec Recd*STAT
  5                     1018  CROSSMATCH BLOOD 1 UNIT    0732       Spec Recd*STAT
  6                     1017  ANTIBODY ID                0732       Spec Recd*STAT









                         All work listed for: 06/09/93
Enter option(s), All(A) or 'P' for previous day or date--
                                other options(*)
```

```
                General Hospital Patient Inquiry Processor
                                                  Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  1             SUR 10  I/P 11
                             Acct #: A8825600016
                      Accession # 1022 ANTIBODY ID
Specimen: Blood                                    Collected: 06/10/95 1100
Result Name              Results
Pt ABO/Rh:               APOS
Pt Antigen Types:        C
Pt Direct Coombs:        NEG
Antibody 1:              k









Enter option--
                     * = Options
```

Notice the results for Pt Antigen Types and Antibody 1 contain only the antigen and antibody codes. If multiple antigens or antibodies are displayed, they are separated by commas (,).

RESULT ENTRY

Tests defined as ABB test types can beresulted on the STAR Laboratory system.This is only necessary if the ABB system is down. The following pages discuss how to do this resulting on STAR Laboratory.

Select the Blood Bank option from the Laboratory Input Options menu. Select the option which contains test results you want to result. In the following examples, the Cross Match Bay option is selected to result cross match tests.

```
                General Hospital Community Lab Processor
                                                Mon Jun 12, 1995 10:40 am
Community Lab Input Options

            Option No.  Option
            ----------------------------------------
                1       Order Inquiry
                2       Patient Inquiry

                3       Administration
                4       Blood Bank
                5       Central Processing
                6       Chemistry I
                7       Chemistry II
                8       Front Office
                9       Hematology
               10       Microbiology
               11       Send Outs
               12       Anatomic Pathology
               13       Urinalysis
               14       Immunology

Enter option number--
```

As with other STAR Laboratory tests, the first step is to select the section. After the section is selected, the following screen displays.

```
                  General Hospital Blood Bank Processor
                                                Mon Jun 12, 1995 04:17 pm
Blood Bank Input Options

            Option No.  Option
            ----------------------------------------
                1       Order Inquiry
                2       Patient Inquiry
                3       Accessioning
                4       Incomplete Work
                5       Cross Match Bay
                6       Blood Bank Tests
                7       Miscellaneous Charge/Credit
                8       Miscellaneous Charge Report









Enter option number--
```

Select the Cross Match Bay to manually enter results or to view detailed information concerning an ABB test.

```
                General Hospital Cross Match Bay Processor
                                              Mon Jun 12, 1995 04:18 pm

Cross Match Bay Test Options

                ( 1) Crossmatch Blood 1 Unit
                ( 2) Crossmatch Blood 2 Units
                ( 3) Crossmatch Blood 3 Units
                ( 4) Crossmatch Blood 4 Units
                ( 5) Crossmatch Blood 5 Units
                ( 6) Crossmatch Blood 6 Units
                ( 7) Crossmatch Blood 7 Units
                ( 8) Crossmatch Blood 8 Units
                ( 9) Crossmatch Pooled Platelets
                (10) Crossmatch Frozen Plasma 1 Unit
                (11) Crossmatch Frozen Plasma 2 Units
                (12) Crossmatch Frozen Plasma 3 Units
                (13) Crossmatch Frozen Plasma 4 Units
                (14) Crossmatch Frozen Plasma 5 Units
                (15) Crossmatch Frozen Plasma 6 Units
                (16) Crossmatch Pooled Cryoglobulin

Enter option #--
```

```
             General Hospital CROSSMATCH BLOOD 1 UNIT Processor
AC#:1022             CROSSMATCH BLOOD 1 UNIT     Thu Jan 15, 2009 09:04 am
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
A000103036 SMITH,MIKE       M  04/08/1954 2108-1  ADAMS,HAROLD  SUR 10  I/P 11


( 1) Pt ABO/Rh     : A POS
( 2) Units Crossma : 1









Test already run!  Overwrite all(A) or single(S) result(s)?--
```

The preceding screen displays after selecting the patient and test for result viewing/ entry. In this example, the test has been resulted on the ABB system and results transmitted to STAR Laboratory. At this point, you can enter additional results or edit a result. Enter **A** to overwrite all the results displayed on the screen. Enter **S** to edit only one of the results options displayed on the screen.

In this example, **S** was entered to enter an additional unit of blood (this is only necessary if the ABB system is down.)

WARNING: If this option is used to overwrite results, these results are altered on the STAR Laboratory system only and differ from the original values on the ABB system.

Since **S** was entered at the previous prompt, the system displays the following prompt to enable you to select which result option you want to edit:

Enter number to edit, accept(A), fax(X), print(P), fill(F)--
**=options, replicate(R), repeat(RR)*

For more information on data entry at this prompt, refer to Chapter 6: Test Processing in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

```
              General Hospital CROSSMATCH BLOOD 1 UNIT Processor
AC#:1169      STAT               CROSSMATCH X1        Wed Jun 16, 2010 05:13 pm
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
B000005974 FLANDERS,ACTIVE  F  04/01/1960 3001-1  ADAIR,FRANK C CAR 10  I/P 442
Result:  No. of units
Page:01Component           Unit#_Prod Code        Status     Interp         OT
( 1) Red Blood Cells       W045110152130_E4545100 Available  Comp          3640
( 2) Red Blood Cells       W045110152131_E4545100 Available  Comp          3640
( 3) Red Blood Cells       W045110152132_E4545100 Available  Comp          3640









Selection option to edit, add(A) or NL to accept--
```

The system displays detailed information concerning the unit(s) crossmatched for this accession.

Field Explanations

COMPONENT (DISPLAY ONLY)
The name of the blood component displays in this field.

UNIT#_PROD CODE (DISPLAY ONLY)
The number of the unit and the product code display in this field.

STATUS (DISPLAY ONLY)
One of the following statuses displays for each unit crossmatched:

- Available
- Issued
- Transfused
- Expired
- Canceled
- Quarantine

NOTE: The ABB system (in the case of LifeLine) provides more status types than does the STAR Laboratory system. The status types on the ABB system convert into one of the STAR Laboratory status types in this list. Refer to the following table to determine which ABB system status types convert to which STAR Laboratory status types:

ABB System Status	STAR Laboratory Status
Crossmatched	Available
Issued	Issued
Transfused	Transfused
Expired Crossmatch	Expired
Issued & Returned	Available, Quarantine
Crossmatched & Issued & Returned	Available
Setup	Available
Cancelled Transfusion	Cancel
Cancelled & Issued & Returned	Cancel

INTERPRETATION (DISPLAY ONLY)
The interpretation entered for this unit displays in this field. This is a free-form field.

OT (DISPLAY ONLY)
This field contains the ordered test code.

At this point, you can edit a unit by entering the corresponding option number or enter **A** to add a unit.

In this example, **A** was entered.

```
            General Hospital Blood Bank-LB3 Result Reporting Processor
AC#:1166      TODAY              CROSSMATCH X1        Wed Jun 16, 2010 07:15 pm
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
C0000000102CTEST,PATIENT    M  05/05/1955 L102-1  DOCTOR,ADMITT MED 10  I/P 29
Result:  No. of units


 1 Component                          2 Unit #         3 Status
   Red Blood Cells                      W045110152130    Available
 4 Interpretation           5 Unit Source                6 Pool Unit #
   Compatible
 7 Pool Component             8 Unit/Pool ABO/Rh   9 Disposition
                                O POS
10 Product Code
   E4545V00









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

This screen displays only for those ABB tests which have the Units Crossmatched Processing feature defined for a result under the Special Processing features. The fields shown are the same as those on the ABB system when processing a crossmatch.

Field Explanations

1. COMPONENT (TABLE LOOKUP)
This field automatically displays a user-defined Component table for selection of the blood component type to process.

2. UNIT # (10-C-R)
Enter the number from the label of the unit of blood component in this field. This field allows up to 10 characters to be entered.

3. STATUS (TABLE LOOKUP)
Select the unit status from the following entries in the Unit Status table:

- Available
- Issued
- Transfused
- Expired
- Cancel

- Quarantine

4. INTERPRETATION (15-C-R)
Enter the interpretation for this crossmatch. Up to 15 free-form characters can be entered in this field (examples of text entry are Positive, Negative, Compatible, and Non-Compatible).

5. UNIT SOURCE (TABLE LOOKUP-O)
The Unit Source is the location from which your laboratory obtained the blood. Select the unit source from the UnitSource table. This table is user-defined and must remain identical to the Unit Source table on the LifeLine system. For more information on defining this table, refer to Chapter 2: Tables in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

6. POOL UNIT # (10-C-O)
This field contains the pool unit code for this crossmatch. Enter up to a maximum of 10 characters.

7. POOL COMPONENT (TABLE LOOKUP-O)
This field displays the pool component for the accession. You can choose the pool component from the Blood Component table.

8. UNIT/POOL ABO/RH (7-A-O)
This field contains the Unit/Pool ABO/RH for this crossmatch. Enter up to a maximum of seven alphabetic characters.

9. DISPOSITION (TABLE LOOKUP-O)
Select the disposition from the Disposition table. This table is user-defined and must remain identical to the Disposition table on the LifeLine system. For more information on defining this table, refer to Chapter 2: Tables in the *Maintenance Functions Volume I* of the *STAR Laboratory Reference Guide*.

10. PRODUCT CODE (8-AN-O)
This field contains the product code.

```
            General Hospital Blood Bank-LB3 Result Reporting Processor
AC#:1166      TODAY              CROSSMATCH X1        Wed Jun 16, 2010 07:15 pm
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
C0000000102CTEST,PATIENT    M  05/05/1955 L102-1  DOCTOR,ADMITT MED 10  I/P 29
Result:  No. of units


 1 Component                        2 Unit #         3 Status
   Red Blood Cells                    W045110152130    Available
 4 Interpretation           5 Unit Source                6 Pool Unit #
   Compatible
 7 Pool Component             8 Unit/Pool ABO/Rh   9 Disposition
                                O POS
10 Product Code
   E4545V00









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

Once you have completed all required entries, you can press ENTER or enter **Y** to accept the screen, or enter **N** to edit.

Impact

Accepting this screen saves the information entered about the component. The information is filed when this results entry cycle is accepted.

```
             General Hospital CROSSMATCH BLOOD 1 UNIT Processor
AC#:1169      STAT               CROSSMATCH X1        Wed Jun 16, 2010 05:13 pm
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
B000005974 FLANDERS,ACTIVE  F  04/01/1960 3001-1  ADAIR,FRANK C CAR 10  I/P 442
Result:  No. of units
Page:01Component           Unit#_Prod Code        Status     Interp         OT
( 1) Red Blood Cells       W045110152130_E4545100 Available  Comp          3640
( 2) Red Blood Cells       W045110152131_E4545100 Available  Comp          3640
( 3) Red Blood Cells       W045110152132_E4545100 Available  Comp          3640









Selection option to edit, add(A) or NL to accept--
```

This screen displays the updated information concerning the unit added to this accession.

Press ENTER to accept the new information.

```
            General Hospital Blood Bank-LB3 Result Reporting Processor
AC#:1166      TODAY              CROSSMATCH X1        Wed Jun 16, 2010 07:15 pm
Unit #     Name            Sex Birthdate  Room    Physician     Srv ICD Status
C0000000102CTEST,PATIENT    M  05/05/1955 L102-1  DOCTOR,ADMITT MED 10  I/P 29



( 1) ABO/Rh         : O POS
( 2) No. of units   : 3
( 3)*Comment        :
( 4)^Lab Comment    :









Enter number to edit, accept(A), print(P), fill(F)--
                     * = options, replicate(R), repeat(RR)
```

Notice the Units Crossmatched result field is automatically updated with the new number of units (2). Enter **A** to accept and file this information.

NOTE: Units added on STAR Laboratory are not automatically updated on the ABB system. You must add them on the ABB system in order to update the database on that system.

Impact

Accepting this screen files all information entered/edited on all blood components and the other results on this screen.

Appendix A - Testing Criteria

INTRODUCTION

This appendix provides a guide for testing the interface between STAR Laboratory and the ABB system once the system has been built and the interface is active.

NOTE: If STAR Laboratory is networked or interfaced to an HIS, ADT transactions should originate on the HIS to verify the transaction is passed to STAR Laboratory and then passed to the ABB system.

ADMISSION/TEST ORDER/ACCESSION

Admit several patients into STAR Laboratory. At the time of admission to STAR Laboratory, no message is passed to the ABB system.

Order Advanced Blood Bank tests on the admitted patients. Accession each test. Once the tests are accessioned, an admit message and a request/order message are passed to the ABB system. Verify they are received by looking at the interface printer on the ABB system. An adding/updating patient master message should print for the admit message and an incoming order message prints for each accessioned test code. Verify the correct order was received by the ABB system by reviewing these messages. Look at the patient record in the ABB system to verify all data is correct and the Patient ID number in the ABB system (STAR Laboratory's Med Rec/Unit #) is formatted correctly (the format is defined in the Interface Parameters).

Once the order message is processed by the ABB system, a request update message is sent back to STAR Laboratory. Verify the request update was processed by viewing the ABB request number on the General Information screen in Patient Inquiry. Verify this request number is the request number printed on the incoming order message on the ABB system.

Accession Cancellation

Cancel one or more of the accessioned tests above. Verify that an Order Cancellation message prints on the ABB system interface printer for the accession and test code canceled. Canceled orders are not deleted on the ABB system without your intervention. If desired, the request can be manually removed from the ABB system by using the Purge Request function.

Test other ADT transactions sent to the ABB system from STAR Laboratory, by performing the following for one or more of the above patients. Remember that ADT transactions are only sent to the ABB system for patients who have had an ABB test accessioned on STAR Laboratory.

Discharge

Discharge one of the patients. Verify a discharge message prints on the ABB system interface printer. Since discharges are account-based, only a message prints; discharge updates to the patient record are not necessary in the ABB system.

Cancel Discharge

Cancel the discharge on the patient discharged above. Verify the cancel discharge message prints on the ABB system interface printer. Since this transaction is account-based, only a message prints; an update to the patient record is not necessary in the ABB system.

Transfer

Transfer one of the patients admitted to the ABB system. Verify the transfer message prints on the ABB system interface printer and that the patient's location on the Patient Master Location in the ABB system is updated correctly. Note that the location on the open orders is not updated.

Revision

Change the name, date of birth, sex, race, diagnosis, admit date, or attending physician for one of the patients sent to the ABB system. Verify that a patient master (revision) message prints on the ABB system interface printer. Review the original and revised data to ensure it was transmitted correctly.

Merge

Merge two patient records sent to the ABB system. Verify that the message to initiate a merge on the ABB system prints on the interface printer.

NOTE: A merge does not occur automatically on the ABB system. You must perform the merge manually on the ABB system.

Transfer Visit

Transfer a visit for one of the patients admitted to the ABB system. Verify a message prints on the ABB system interface printer.

NOTE: Visit transfers are account-based. A record update is not required on the ABB system.

Unit Number Change

Perform a unit number change on one of the patients admitted to the ABB system. Verify that the message to initiate a patient ID number change prints on the ABB system interface printer.

TABLE UPDATES

Perform the following to test the table updates sent by STAR Laboratory/STAR Patient Care to the ABB system:

NOTE: In a STAR Patient Care networked environment, enter table data for Physicians, Diagnosis, Nurse Stations, and Patient Types in STAR Patient Care to verify the data is passed to STAR Laboratory and then transmitted to the ABB system.

Physician Table

Add or edit a physician on STAR Patient Care and verify the new or edited physician is passed to the ABB system.

Diagnosis Table

Add or edit a diagnosis on STAR Patient Care and verify the new or edited diagnosis is passed to the ABB system.

Locations (Nurse Station and Patient Types)

1. Add or edit a nurse station on STAR Patient Care and verify the station is passed to the ABB system.

   NOTE: Only the nurse station (not room and bed) is used as the patient location for in-house patients in the ABB system.

2. Add or edit a patient type on STAR Patient Care and verify it is passed to the ABB system.

   NOTE: The patient type is used as the patient location in the ABB system for non-in-house patients.

Tech ID Table (Employee Data)

Add or edit a tech ID on STAR Laboratory and verify the tech ID is passed to the ABB system.

Blood Component Table

Add or edit a blood component on STAR Laboratory and verify that the information message is passed to the ABB system.

Antibodies Table

Add or edit an antibody on STAR Laboratory and verify the antibody is passed to the ABB system.

Antigen Table

Add or edit an antigen on STARLaboratory and verify the antigen is passed to the ABB system.

RESULT TRANSMISSION FROM ABB TO STAR LABORATORY

Using the ABB tests ordered/accessioned above, enter results into the ABB system to verify they are correctly passed and filed in STAR Laboratory.

NOTE: The record type code (in parenthesis) follows the procedure name.

ABO and Rh Record Type (A)

For a test containing an ABO/Rh procedure that has a result mapped to the ABO and Rh record type, enter the ABO and Rh results into the ABB system. Once the results are entered, use Patient Inquiry to verify the correct ABO/Rh results were sent and filed by STAR Laboratory.

Direct Antiglobulin (DAT) Record Type (D)

For a test containing a DAT procedure that has a result mapped to the DAT record type, enter the DAT results into the ABB system. This entry should be made for two different test/requests, one using the combined entry program and one using the DAT entry program. Once the results are entered, use Patient Inquiry to verify the correct DAT results were sent and filed by STAR Laboratory for each test/request.

Antigen Testing Record Type (G)

For a test containing an antigen testing procedure that has a result mapped to the antigen testing record type, enter the antigen testing results into the ABB system using the Antigen Typing Entry program. Once the results are entered, use Patient Inquiry to verify the correct antigen testing results were sent and filed by STAR Laboratory.

Antibody ID Testing (I)

For a test containing an antibody ID testing procedure that has a result mapped to the antibody ID testing record type, enter the antibody ID results into the ABB system using the Antibody Identification Entry program. Once the results are entered, use Patient Inquiry in STAR Laboratory to verify the correct Antibody ID results were sent and filed by STAR Laboratory.

Other Testing (O)

For a test assigned another testing procedure and one that hasa result mapped to the other testing record type, enter the other test results into the ABB system using the Other Patient Test Entry program. Once the results are entered, use Patient Inquiry to verify the correct other testing results were sent and filed by STAR Laboratory.

Antibody Screen Testing (S)

For a test containing an antibody screen procedure that has a result mapped to the antibody screen record type, enter the antibody screen results into the ABB system. The results should be entered for two different test/requests, one using the Combined Entry program and one using the Antibody Screen Entry program. Once the results are entered, use Patient Inquiry to verify the correct Antibody Screen results were sent and filed by STAR Laboratory.

Crossmatch Results (X)

For a test containing a crossmatch procedure that has a result mapped to the crossmatch (units crossmatched) record type, enter the crossmatch results into the ABB system. The results should be entered for two different test/requests, one using the combined entry program and one using the crossmatch entry program. Within Patient Inquiry, verify the crossmatch results were sent to STAR Laboratory. Verify the mapped result (units crossmatched) has been updated to the number of units crossmatched. Look at the Blood Product Availability screen to verify the display for the crossmatched components shows a status of Available for the number of units crossmatched. You should also go into results entry on STAR Laboratory for the accession/test in which the crossmatch results were entered. The result *Units Crossmatched* should be setup for the *Units Crossmatched Processing*. Use this processor to verify the correct unit number and data was sent to STAR Laboratory by the ABB system for each unit crossmatched.

In the ABB system, issue one or more of the units crossmatched above. Use Patient Inquiry in STAR Laboratory to verify the number of *Units Crossmatched* is still correct (that it did not get incremented). Look at the Blood Product Availability screen to verify the number of available units and issued units for each blood component ordered/ crossmatched is correct. You should also go into results entry for the accession/test and verify the correct unit(s) have a status of Issued.

In the ABB system, for one or more of the units issued previously, mark the unit(s) as transfused. Look at the Blood Product Availability screen in Patient Inquiry to verify the display now shows the correct number of units available, issued, and transfused. You should also go into results entry for the accession/test and verify the correct unit(s) have a status of Transfused.

Miscellaneous Charges (M)

Enter a miscellaneous charge for a procedure into the ABB system. The procedure's bill code must match STAR Laboratory's SIM code for the miscellaneous charge. If STAR Laboratory is networked to an HIS, verify that the charge displays in the STAR Patient Care processor. For more information, refer to Chapter 7: Charge Processing in the *Order Management/Charge Processing Volume II* of the *STAR Patient Care Reference Guide*. If STAR Laboratory is interfaced to an HIS, verify that the charge prints on the Miscellaneous Charge/Credit report.

If you are using the LifeLine interface, any miscellaneous charges received into STAR from the interface is not eligible for HCPCS Cross Reference Conflict Checking.

For more information on this report, refer to Chapter 12: Billing/Charging in the *General Applications Volume I* of the *STAR Laboratory Reference Guide*.

Miscellaneous Charges Error Message

The STAR Laboratory Advanced Blood Bank Mediware interface will not stop when a miscellaneous charge only SIM item is sent from the blood bank system on an outpatient with a CMS-compliant insurance plan.

An error message will print to the blood bank error log printer to notify the user of the charge. An example of the error message is:

****
ABB interface incoming ERROR for Laboratory on an outpatient with
a CMS compliant insurance plan - 02/04/00 1113

The Billing Code SIM Item 3050 - CROSSMATCH, IMMED SPIN - CHRG ONLY
for ordered test code 3040 - BLOOD PRODUCT REQUEST
on the patient COMPLIANCE,MCARE;LAB Unit# A0001234567 Location - O/P
for Accession# 1234567 on Account# A00031234567 is missing the
ordering diagnosis to comply with Medicare regulations!!
****

Appendix B - Hardware Requirements

HARDWARE/SOFTWARE REQUIREMENTS

Interface

ASYNCHRONOUS

This interface requires an asynchronous RS232 connection from the Advanced Blood Bank interface PC, and uses one of the PC's COM ports to connect to the STAR Laboratory system. No additional hardware or software is required to make this connection. Please refer to Mediware documentation for their requirements.

Multi-Tasking

In this case, multi-tasking refers to the use of a single PC as both an Mediware LifeLine (Advanced Blood Bank) workstation and a STAR Laboratory workstation using a split screen or *hot keys* to move between applications.

Additional software required is McKesson's Windows Terminal Emulator (WEM).

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, refer to Chapter 2: Maintenance Processors in the *Advanced Blood Bank LifeLine Module* of the *STAR Laboratory Reference Guide* and to the *Maintenance Functions Volume* of the *STAR Laboratory Reference Guide*.

This error log printer prints messages concerning the start/stop status of the interface as well as errors (such as file errors), if they occur while the interface is running. This printer can be used as an error printer for other STAR Laboratory functions, such as the barcode error printer.

CONFIGURATION

Asynchronous Environment

The required hardware on the STAR Laboratory side of the interface is one RS232 port with the following port characteristics

Terminal Type:Computer link HIS

Baud rate:2400

Stop bits:1

Data bits:8

Parity: None

Log on allowed:No

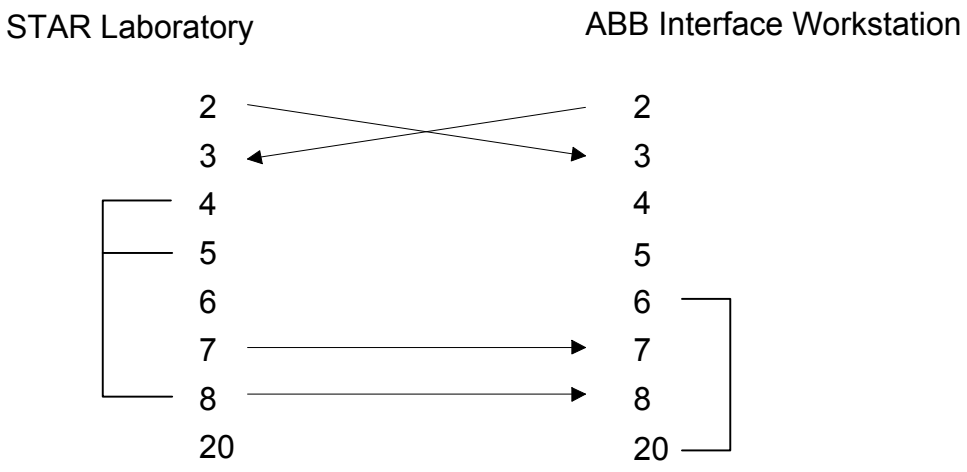
Comm Protocol:RS232

Device options:No options

NOTE: The FIFO for this port must be set at Input = 254, Output = 254.

For more information on setting up and modifying port characteristics, please refer to the following manual: *MultiSTAR for UNIX Operations Guide*.

For non-LAN environments from the previous port, a 9-pin cable (straight through on pins 1 - 8 and 20) is required. This cable must run to the ABB workstation dedicated to the interface and be terminated with a male end. A female-to-female cable connection is required to join to the male cable of the ABB workstation. This cable connection must have the following pin configuration:



For systems that are using a LAN, please refer to your LAN administrator for assistance in adapting the previous requirements to your particular LAN environment.

Index

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■ Reader Comment Form ■

We value your suggestions for improving our documentation. Please use this form to evaluate the *Advanced Blood Bank LifeLine Module* of the *STAR Laboratory Reference Guide* for Release 17.0.

Topic	Poor	Fair	Good	Excellent
Organization of information	❑	❑	❑	❑
Accuracy of information	❑	❑	❑	❑
Completeness of information	❑	❑	❑	❑
Clarity of information	❑	❑	❑	❑
Amount of overview information	❑	❑	❑	❑
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Are there parts of this manual that could be made more helpful to you? Please explain.

Other Comments:

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