LAN-90® Process Control View (PCV®)
Lab Data Entry
(Software Release 5.2)
**WARNING** notices as used in this instruction apply to hazards or unsafe practices that could result in personal injury or death.

**CAUTION** notices apply to hazards or unsafe practices that could result in property damage.

**NOTES** highlight procedures and contain information that assists the operator in understanding the information contained in this instruction.

---

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This manual provides general information and specific instructions on configuring and using the LAN-90 PCV 5.2 Lab Data Entry package to enter manually-gathered data.

This manual can be used as a reference guide for system engineers and technicians responsible for configuring the Lab Data Entry package and as an operational guide for those who enter data.

This manual assumes the reader has a general knowledge of CRT-based process control systems.
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SPECIFIC CAUTION

Never turn off or reset a computer when you are editing or viewing a data entry screen. Temporary files will be left on the disk, and the lab data entry system will assume the screen is in use the next time you try to call it up. Always exit properly from the lab data entry screen when you are finished using it. (p. 4-1)
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SECTION 1 - INTRODUCTION

OVERVIEW

With the Lab Data Entry package, you can enter manually-gathered process data into your LAN-90 system.

You can configure lab data entry value tags of type internal analog, internal digital, analog report, or digital report. These values can be used on display elements, trends, and process graphics. They can also be used by the optional application packages Logging and Quality Analysis & Control (QAC) (on SPC and TSA charts).

NOTE: Internal type tags are available to LAN-90 application programs only. Using analog report or digital report type tags makes data available to Elsag Bailey plant loop INFI 90 OPEN devices (MCS, OIS, . . .).

The number of tags you can configure for lab data entry is limited to 2000. The tags must be placed in the Manual-Import collection class.

To enter data for the tags, first set up data entry screens and select the data entry tags to be included on each. Data entry screens can be set up to automatically create entry times or to use sample times that are entered by you.

REQUIREMENTS

Hardware

Lab Data Entry has the same hardware requirements as the base system. Refer to LAN-90 Process Control View (PCV) Installation Manual for details.

Software

Lab Data Entry is an option that requires the base system software to be installed.

CONTENTS OF THIS MANUAL

This manual explains the installation and use of Lab Data Entry.

Introduction

Gives the hardware and software requirements, discusses converting from Lab Data Entry 4.x, and compares software versions.
Installation

Describes how to install Lab Data Entry.

Configuring Lab Data Tags

Presents the user with information on configuring tags and data entry screens.

Entering Lab Data

Details how to enter lab data on the both the regular and multicolumn data entry screens.

Using Lab Data

Outlines some procedures for using lab data entry. Tag values, exports assigned to a tag, and displays are covered.

CONVENTIONS USED IN THIS MANUAL

You will find the following conventions used throughout this manual:

NOTE: Used to highlight important or additional information.

CAUTION Used to highlight information that, if ignored, could result in property or information damage.

WARNING Used to highlight information that, if ignored, could result in personal injury.

**bold** Used for anything you must type exactly as shown. For example, you could be told to press y or type ls /dev/hd0t77 (QNX4 example).

*italic* Used for information you must provide. For example, if you are told to enter a filename, you type the actual name of the file instead of the italicized word. Also used to show information displayed by the computer.

Initial Capitals Used for menu and screen titles.

*small text* Used to show the contents of text files.

<Key> Used for the names of special keys (non-alphabetic, non-numeric, non-punctuational) that can be found on the regular QWERTY keyboard or can be found on both the Elsag Bailey operator and regular keyboards. Some of the key names used are:

- <Enter> the enter key
- <Num+> the plus key on the numeric keypad
- <Space> the space bar
- <PgUp> the page up key
- <Left> the left cursor key
INTRODUCTION

(Key) Used for the names of keys found only on the Elsag Bailey operator keyboards. Some of the Elsag Bailey operator keyboard key names are {Silence} and {DoubleUp}.

<Key Key> When two or more keys are to be pressed together, the key names appear together within the brackets or braces. For example, to reboot the computer, you can press <Ctrl Alt Shift Del>; that is, press the Ctrl, Shift, Alt, and Del keys in that order without releasing any one until you have pressed them all.

"name" Used for filenames, directory names, and device names.

RELATED DOCUMENTS

This manual describes the installation and use of Lab Data Entry. For information not covered in this manual, refer to one of the following manuals:

- LAN-90 Process Control View (PCV) Installation (Software Release 5.2) I-E97-811-1.
- LAN-90 Process Control View (PCV) Operation (Software Release 5.2) I-E97-811-2.2.

CONVERTING LAB DATA ENTRY FROM 4.X

The design of the upgraded lab data entry system requires that all types of data be handled via a single interface. As a result, lab data entry has been integrated into the tag database. Functionality has been preserved using general features such as reason codes, and trend notes. Note also that trend notes have now been made general so that any trend can use them.

A set of conversion programs cannot be used to bring PCV 4.x configurations forward. The lab data configuration must be regenerated as described in this manual. Note that standard portions of the PCV 4.x configuration will exist indirectly through tag configurations and data files.

COMPARISON OF LAB DATA ENTRY TO RELEASE 4.X

Configuring Tags

Input one data type value. Values can be entered for the following tag types: internal analog, internal digital, analog report, or digital report - as defined in the tag database. Note that the text data type used in PCV 4.x has been replaced by notes (up to 80 characters) that are input by the user and assigned to tag
values. The text selector data type found in PCV 4.x has been replaced by reason codes (up to 20 characters) that are assigned to values. Values for internal tag types are available to applications but not exported. Values for report tag types are available to the Elsag Bailey plant loop.

In PCV 4.x, you can input the following data types: value, text, and text selector. Both value and text selector data types can be exported to a Network 90 tag name. Text can be exported to the text tag message database by specifying an index number.

**Configuring Lab Data Entry Screens**

The times for the values can be entered by you or generated by the system in either regular or multicolumn form:

- User-entered times can be entered to a minute.
- System-generated times will be generated at hour intervals (1-24).

One can switch between regular and multicolumn forms with the \(<F7>\) function key.

The above is true for PCV 4.x, except there is no provision for switching between the regular or multicolumn forms.

**Assigning Exports to a Tag**

A note (comment) assigned to a value can be exported to the text tag message database by specifying an index number. A Reason Code index can be exported to an RMSC tag name (by specifying the RMSC tag name).

In PCV 4.x, there are no comments assigned to values, and reason codes are not exported.

**Entering Lab Data**

A value for each sample time can be entered for each of the tags that are assigned to the lab entry screen.

In PCV 4.x this is true as well.

**Assigning a Note to a Value**

A note entered by you, can be assigned to each value entered. If you had previously specified a comment export text index when the tags were assigned to the screen, then the comment assigned to the most recent value will be exported to that index number (and if there already is an entry against that index, then that entry will be overwritten).
In PCV 4.x, notes are not assigned to values.

Assigning a Reason Code to a Value

For each value entered a reason code can be assigned. The reason code must already exist and is selected from the Select Reason Code screen (the same as found under the sub-menu item Configure Reason Codes). If you had previously specified a reason code export tag name (RMSC tag name) when the tags were assigned to the screen, then the index of the reason code will be exported to that tag name.

For PCV 4.x, for each value entered a reason code can be assigned, but its index cannot be exported.

Displays

The values can be used on display elements, trends, SPC charts, and process graphics.

This is also true for PCV 4.x.

Lab Data Summaries Output

Summaries of the tag values are available through the Trend Logs facility.

In PCV 4.x, the menu presents you with an opportunity to create a Summary (to be displayed to screen, saved to file, or printed).
SECTION 2 - INSTALLATION

OVERVIEW

Usually Lab Data Entry is installed with the base system and no special installation instructions are required. Refer to the Installation Manual for information on installing the base system software.

These instructions are intended for users who purchase the Lab Data Entry option as a separate package and install it after the base system has been installed.

INSTALLING LAB DATA ENTRY ON A NETWORK

The lab data entry disk must be loaded onto Server computers.

NOTE: Do NOT load the software on diskless computers. Diskless computers use the programs found on the boot node and are automatically "loaded" with the primary/redundant nodes. If you are loading a computer that acts as the boot node for diskless nodes, load all optional disks required by the diskless nodes on that computer. On a non-redundant network, load all diskless node options on the primary node; on a redundant network, load all diskless node options on both the primary and redundant nodes.

LOADING LAB DATA ENTRY

Follow the menu path depicted in Figure 2-1 in order to install the Lab Data Entry package. Follow the instructions that are given in the setup procedure.

SETTING THE CONSOLE START-UP OPTIONS

From the Main menu, use the right mouse button to select Configuration, then System Options. Then select Console Configuration via the left mouse button (Figure 2-2).

Select the node (Figure 2-3), then press <F2> to edit.

Figure 2-4 shows the console options. On page 1, enable the Lab Data Entry option by moving the cursor to the Enabled field and pressing <Enter> (selected fields are in white).

Save changes by pressing <F1>. You are asked Do you want to save your changes? (Yes/No). To save your changes, select Yes and press <Enter>. When you have finished setting and saving your system options, press <F10> to exit each screen.
Figure 2-1. Accessing the PCV Setup Utility

Figure 2-2. Console Configuration Menu
Shut down the computer as follows:

From the Main menu, select Exit with the left mouse button. Next, select Exit & Shutdown. Finally, acknowledge Shutdown Complete by clicking on the OK button.

Reboot the computer by pressing <Ctrl Alt Shift Del>.

Lab Data Entry is now available.
SECTION 3 - CONFIGURING LAB DATA TAGS

OVERVIEW

The basic steps for configuring lab data entry tags are as follows: First configure tags in the tag database. Next configure lab data entry screens. Assign tags to each lab entry screen. Finally assign exports to the tags (comment, reason code).

NOTE: You must have Configuration or Unrestricted level access to be able to configure the Lab Data Entry system. If you have Control or View Only level access, you will be able to look at the information, but you will not be able to change it.

CONFIGURING TAGS IN THE TAG DATABASE

From the Main menu, select the Configuration menu option. Then, from the Configuration menu, select the Tag Database menu option. Within the tag database editor, click on the **Edit** button to change the attributes for a tag.

To list the tag types, place the cursor on the Type field and press the right mouse button (Figure 3-1). Select from: **IntAng**, **IntDig**, **AngRpt**, or **DigRpt**. IntAng and IntDig tag values are available only to applications (e.g., process displays, logs). They are not available on the Elsag Bailey plant loop. AngRpt and DigRpt tag values are available on the Elsag Bailey plant loop but they do not exist in a module configuration (their hardware address is in the CIU).

Set the Loop, PCU, Module, and Block fields to 0 (zero).

For **IntAng** and **AngRpt** Tags

Enter the high and low limits for the tag. If a value is entered that falls outside of the range specified by these limits, then a warning is displayed indicating that the entry is out of range; select whether or not to enter the out-of-range value, or to enter a new value. Note that out-of-range entries are marked with an asterisk on the Lab Data Entry screen.

For **IntDig** and **DigRpt** Tags

Choose the Zero State Descriptor and One State Descriptor by clicking on the field, then selecting from the list presented.

Place the tag into the Manual-Import historical collection class.

Click on **Update** when finished editing the tag fields.
Select the Configure Screens option given in Figure 3-2. Figure 3-3 lists the screen index numbers (up to 64) and the screen names (14 characters).

The cursor shows which data entry screen is currently selected. Select any one of the existing screens with the arrow keys. To create a new screen, select a blank entry.

To edit the selected screen, press <F1>. This calls up the Edit Lab Entry Screen (Figure 3-4).

The lab entry screen fields are described in Table 3-1.
Figure 3-2. Configure Screens Option

Figure 3-3. Select Lab Entry Screen
Assigning Tags to a Lab Entry Screen

Press <F2> to assign tags to the lab entry screen. The available tags will be displayed as seen in Figure 3-5, in the same order as they appear in the tag list.

Only 64 of the 2000 possible tags are shown at a time, and all 14 characters of the tag name are shown.

The cursor highlights the current tag. To scroll through the list press <Up>, <Down>, <Right>, or <Left>. To scroll by pages press <PgUp> or <PgDn>.

To select a tag to appear on the data entry screen, move the cursor to a tag then press <Space>. This selects the tag, and the color of the tag name changes from green to white. (Note

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Name</td>
<td>Enter a unique 14 character title using: letters, numbers, spaces, and punctuation. The screen name cannot duplicate the screen name of any other lab data entry screen.</td>
</tr>
<tr>
<td>Screen Type</td>
<td>Select the screen type by pressing &lt;Ctrl Left&gt; or &lt;Ctrl Right&gt;.</td>
</tr>
<tr>
<td>Time Entry</td>
<td>Select the method of entering the time by pressing &lt;Ctrl Left&gt; or &lt;Ctrl Right&gt;.</td>
</tr>
<tr>
<td>Frequency</td>
<td>Specifies the number of hours between system-generated sample times (1-24).</td>
</tr>
<tr>
<td>Round Time</td>
<td>Select whether or not system-generated sample times are rounded to the hour (not nearest) by pressing &lt;Ctrl Left&gt; or &lt;Ctrl Right&gt;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Name</td>
<td>Enter a unique 14 character title using: letters, numbers, spaces, and punctuation. The screen name cannot duplicate the screen name of any other lab data entry screen.</td>
</tr>
<tr>
<td>Screen Type</td>
<td>Select the screen type by pressing &lt;Ctrl Left&gt; or &lt;Ctrl Right&gt;.</td>
</tr>
<tr>
<td>Time Entry</td>
<td>Select the method of entering the time by pressing &lt;Ctrl Left&gt; or &lt;Ctrl Right&gt;.</td>
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<td>Select whether or not system-generated sample times are rounded to the hour (not nearest) by pressing &lt;Ctrl Left&gt; or &lt;Ctrl Right&gt;.</td>
</tr>
</tbody>
</table>
that the order of the tags on the data entry screen will be the order of the tag index numbers, not the order in which you select the tags.)

To unselect a tag for the data entry screen, move the cursor to the tag and press <Space>. The color of the tag name changes from white to green.

**NOTE:** Including a tag on more than one data entry screen can lead to lost entries if more than one person is entering data for that tag at the same time.

The call up time for entering data on a screen depends on two of the factors you have configured:

- The number of tags per screen (the fewer the number of tags, the faster the call up).
- The maximum entries set for the tags (the greater the number of maximum entries, the slower the call up).

Additionally, factors such as hard disk speed and networking can affect the call up time of a screen.

To save the changes made to the data entry screen configuration, press <F1>.

To return to the Edit Lab Entry Screen, press <F10>.

**Assigning Exports to a Tag**

Press <F1> to assign exports to a tag (Figure 3-6).
Comment Export

A comment assigned to the most recent value for a tag will be exported to the text tag messages index specified here.

**NOTE:** If a text message already exists for this index, then it will be overwritten.

To select a blank index for a tag: view the text tag messages database, find the next blank, and specify that index. Access the text tag messages database per Figure 3-7. The database is shown in Figure 3-8. Note that the next blank comment export text index is 3.

Reason Code Export

The index of a reason code assigned to a value will be exported to the RMSC (Remote Module Set Constant) tag name.

Reason Codes must be defined before they can be exported to an RMSC tag name, or assigned to a value. Select Configure Reason Codes as shown in Figure 3-9.

The resulting screen (Figure 3-10) lists the reason code index numbers and the reason code descriptions; only 69 of the 252 possible reason codes are shown at a time. Indexes without a description are blank and have not been configured.

The cursor shows the reason code currently selected. To move through the list, use the arrow keys. To scroll by pages press <PgUp> or <PgDn>.

To add a new reason code, select a blank entry and type a description of up to 20 characters in length (letters, numbers, spaces, and punctuation marks are permitted).
To delete an existing reason code, move to an existing entry and press <Del> or <Backspace> until all the characters have been removed.

To save changes press <F1>. Press <F10> to exit.
Figure 3-9. Configure Reason Codes Option

Figure 3-10. Editing Reason Codes
Exiting the Edit Lab Entry Screen

Press <F10> to exit the exports option.

Press <F10> again to exit the screen that shows the selected tags, and return to the Edit Lab Entry Screen.

Press <F10> once more to return to the list of screen names.

Finally, press <F10> to exit this last screen.
SECTION 4 - ENTERING LAB DATA

OVERVIEW

The Lab Data Entry package allows you to enter data at user-entered sample times or system-generated sample times.

CAUTION

Never turn off or reset a computer when you are editing or viewing a data entry screen. Temporary files will be left on the disk, and the lab data entry system will assume the screen is in use the next time you try to call it up. Always exit properly from the lab data entry screen when you are finished using it.

ENTERING LAB DATA ON A NETWORK

If you are using the Lab Data Entry package in a network setting, and call up a data entry screen, either of the following situations may occur:

- You are able to edit the data on the screen.
- You can only view data on the screen.
- The screen is busy and cannot be accessed.

When you have Unrestricted or Configuration access to a screen, you can enter new samples, edit existing entries, and save any changes you have made.

If you have Control level access, there may be certain screens which you can only view. During configuration, access to some screens may have been limited to certain nodes on the network.

When you have View Only access to a screen, you can scroll through all existing entries, but you cannot edit them or add new samples.

On a network, only one screen can be edited at a time. If you call up a screen you can normally edit, but if someone else is editing that screen, you will see a message saying the screen is in use and you have View Only access to the data.

If someone else is editing a data entry screen, and you attempt to access this same screen, you will be told the screen is busy, and you will not be able to call it up.

SELECTING A LAB ENTRY SCREEN

From the Main menu, press E to get the Lab Data Entry menu. To select Enter Data, press B (Figure 4-1). The resulting screen
(Figure 4-2) lists the lab entry screen index numbers and their names. To select a lab entry screen, highlight it and press <F1>.

![Figure 4-1. Enter Data Option]

**TYPES OF DATA ENTRY SCREENS**

There are two basic types of lab data entry screens: regular (Figure 4-3), and multicolumn (Figure 4-4).

Both types can include one or more variables for data entry.

**Regular Data Entry Screens**

A regular (single column) data entry screen has all of the entries for a sample time in a single vertical column (Figure 4-3). Each tag has its own row, which displays the sample date and time, the tag name, the tag description, the entry, and the units of measurement for the entry.
Multicolumn Data Entry Screen

A multicolumn data entry screen has all the entries for a sample time in a single horizontal row (Figure 4-4). Each tag has its own column; only the tag name is displayed at the top of the column. The columns for only four tags can be displayed at one time across the page, but there can be more tags included on the data entry screen. To see any other tags, scroll the screen left and right by pressing <Right> at the right edge of the screen, and <Left> at the left edge of the screen.

Both regular and multicolumn screens can be configured in one of two modes:

- System-generated sample times.
- User-entered sample times.

Figure 4-2. Select Lab Entry Screen

Figure 4-3. Regular Screen with User-Entered Time

TYPEs OF DATA ENTRY SCREENs
The two styles of data entry screen can be distinguished by the top few lines of the data entry screen. User-entered sample times show an Enter Time and Date prompt in addition to the screen name (Figure 4-3). System-generated sample time screens only show the screen name (Figure 4-5).

System-generated sample time data entry screens automatically create the next sample time at the specified frequency.
whenever you press <Up> when you are at the top entry on the screen.

NOTE: Once you specify the time for the first sample on a system-generated time lab data entry screen, you cannot add samples which are older than the first entry.

User-entered sample time data entry screens only create entries when you specify the time for the sample. To enter a new sample time and date, move the cursor from the data entry region of the screen, to the time and date prompt in the title section by pressing <F2>. Type the new date and time then press <F2> to return to the data entry region of the screen at the new sample time you specified.

MOVING AROUND A DATA ENTRY SCREEN

On a regular data entry screen, you can scroll vertically through the existing tag entries for one sample time by pressing <Up> or <Down>. To view entries for other sample times use <PgUp>, <PgDn>, <Home>, or <End>. Use <F7> to change to the multicolumn display.

On a multicolumn data entry screen, you can scroll vertically through the existing sample times by pressing <Up>, <Down>, <PgUp>, <PgDn>, <Home>, or <End>. You can also move horizontally through the different tags by pressing <Right> or <Left>. Use <F7> to change to the regular display.

ENTERING A NEW SAMPLE TIME

NOTE: Lab data entry tags should be tags that have not been previously trended (active), otherwise times per the sampling rate that had been set will appear amongst the lab data entry times, and the functionality of the lab data entry software may be degraded due to the existence of the old trend files. If there are no blank trend indexes available, be sure to add a new sample time for the first entry, rather than entering a value for the current time displayed.

To add a new sample time on a system-generated sample time data entry screen:

1. Position the cursor on the top entry on the data entry screen.

2. Press <Up>. This creates the new sample entry.

3. For a regular screen, the <Up> key will yield the next sample time according to the specified frequency, but not the following one unless a value is entered. For the multicolumn screen, the <Up> key will yield sequential sample times at the specified frequency regardless of whether values are entered.
**User-entered Time Screens**

To add a new sample time on a user-entered sample time data entry screen:

1. Press <F2> to move the cursor to the Enter Time and Date fields at the top of the screen.

2. Enter the new sample time.

3. Press <F2> to move the cursor back to the data window at the bottom of the screen.

**NOTE:** Values entered for sample times in the future are only displayed via the regular screen. These values will be shown on the multicolumn screen when the real time reaches the sample time.

---

**ENTERING AND EDITING DATA**

To enter data on a data entry screen, position the cursor over the field you want to enter data into and enter the data. To delete the entry, press <Del> or <Backspace> until all of the characters have been removed.

In the field, you can type in digits, a decimal point, and a negative sign. You are limited to a total of 14 characters in the field and the entry will be rounded to the number of decimal places that were specified in the tag database. When you have finished your entry, you can either press <Enter> or simply move the cursor to another field.

Each tag entry will be checked against its high and low limits. If an entry falls outside of this range, a prompt is displayed in the middle of the screen *Commit out-of-range value to system?* If the entry is a mistake, select **No** and re-enter the number. If you want to enter the number, select **Yes**; the entry will be displayed with an asterisk (*) beside it to indicate that it is an out-of-range value (Figure 4-4).

### Assigning a Note to a Value

With the cursor positioned over a value field, press <F3> to assign a note (of up to 80 characters) to a value and <F5> to delete a note (Figure 4-6). A value with a note assigned to it will be marked with an exclamation mark (Figure 4-7).

### Assigning a Reason Code to a Value

When the cursor is positioned over a value field, press <F4> to assign a reason code to a value and <F6> to delete a reason code (Figure 4-5).

Pressing <F4> causes a pop-up window with a list of reason codes to be displayed (Figure 4-8). This pop-up window only
shows the first 81 of 252 possible reason codes. To display the others, press <PgUp> or <PgDn>.

To select a reason code, move the cursor to the reason code you want to enter, then press <F1>. The pop-up window disappears and the value is displayed with an R beside it to indicate that it has a reason code entry (Figure 4-7). If the value field is blank, then the actual reason code (11 of the 20 characters) will be displayed in the value field - with the R beside it.

If you want to find out what the reason code entered for a value is, move the cursor to that entry and press <F4>. The reason code with its index will appear in the middle of the screen, along with a prompt to continue. Note that you will not be able
ENTERING LAB DATA

SAVING THE DATA

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Figure 4-8. Assigning a Reason Code to a Value

to move the cursor while looking at the reason code, until you press <Enter>.

To delete a reason code entered for a value, position the cursor over the entry and press <F6>.

SAVING THE DATA

When you have finished entering the data, save your entries by pressing <F1>. A prompt will appear in the middle of the screen saying Saving Changes . . . . The time required to save the changes depends on the number of entries made.

EXITING THE DATA ENTRY SCREEN

To exit the Enter Lab Data Screen, press <F10>. This returns you to the Select Lab Entry Screen (Figure 4-2). If you have not saved any changes that you have made, you will be asked Save Changes? If you want to save your changes before you exit select Yes, otherwise select No to abandon your changes. To exit the Select Lab Entry Screen press <F10>.
SECTION 5 - USING LAB DATA

OVERVIEW

This section outlines procedures for using Lab Data Entry.

TAG VALUES

Internal Tags

Only internal analog and digital tag values are available to applications.

Report Tags

Analog and digital report tag values are available to both applications and the Elsag Bailey plant communications loop; they are stored in the ICI or CIU that the server is attached to. When the report tag is configured, specify a hardware address of 0, 0, 0, 0 (loop, PCU, module, and block). However, the value does have a real hardware address: it is the loop, PCU, and module number of the ICI or CIU. The block number is the same as the tag index number. This is the address other modules would use to get the tag’s value.

NOTE: On the Elsag Bailey plant loop, only tag indexes (i.e., block numbers) less than 1024 can be seen by modules, therefore a specific set of module and block numbers is used to access all 5000 tags (2, 0-1023; 3, 0-1023; 4, 0-1023; 5, 0-1023, and 6, 0-903).

EXPORTS ASSIGNED TO A TAG

By specifying a comment export text index when the lab data entry screen is configured, the note that is assigned to the most recent value for a tag is saved to the text tag messages database. The notes (comments) stored here are available for use in displays.

A reason code that is assigned to a value must have originated from the reason code database, and its index can be exported to an RMSC tag name.

GRAPHIC DISPLAYS

The values for lab data entry tags can be displayed on display elements and process graphics.
TREND AND SPC DISPLAYS

Trend and SPC displays can be set up that plot values for lab data entry tags.

Specify an appropriate tag type (IntAng, IntDig, AngRpt, or DigRpt) in the main tag database. Specify this same entry when you set up your trend display, to display the current value in your control box.

Finally, place the tag in the Manual-Import collection class.
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