

Configuration Data Collection Guide

SW12-500

**Implementation
Startup & Reconfiguration - 2**

Configuration Data Collection Guide

**SW12-500
Release 500
8/96**

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The following standard document conventions may be used in this document. Check Section 1 for conventions unique to this document.

Item	Convention	Meaning
<KEYCAPS>	Pointed brackets around a term	A key on a computer keyboard
[TARGET]	Square brackets around a term	For touchscreen monitors, an area that can be touched to invoke a system action
entry data	Courier bold text	Data you enter into the system
screen/program data	Courier text	Screen or program data

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Configuration Data Collection Guide

Section 1—Introduction

1.1 About This Document

Basics

Purpose	Summarizes the configuration data collection process, suggests an order for the collection and entry of configuration data, provides a summary description of each configuration activity, and provides references to the related forms, instructions, and reference documents.
Intended audience	System Engineers and Process Engineers
For product release	TPS R500

Document overview

The first section of this document defines configuration data collection, describes how paper forms relate to screen forms, and provides references to the documents and forms needed for configuration data collection.

The second section of this document provides data collection information for each of the major configuration activities. Supporting documents for each of these activities are listed with the information for each activity.

1.2 Configuration Data Collection

Definition Configuration data is the data that is entered into the **TotalPlant** Solution (TPS) system to define to the system a user's plant and process, and to define how the system is to relate to that plant and process.

Methods used for recording data You can record your configuration data:

- On copies of the paper configuration forms provided in the TPS bookset.
- On the screen forms in Honeywell's LCN WORKBOOK package. LCN WORKBOOK is a purchased product that allows you to rebuild data points on an IBM personal computer or other compatible PC.
- On the screen forms on a TPS Universal Station (US) running the Engineering Personality or the engineering portion of the Universal Personality.

Collecting configuration data Customer engineers often begin the collection of configuration data long before the TPS system is in place.

To do so, you will need the TPS bookset and the documentation that defines the specific equipment on the Local Control Network and the process network (Universal Control Network or Data Hiway) and the addresses of the nodes and boxes on those networks.

You will also need documentation, such as piping and instrumentation diagrams, that defines the process(s) to be managed by the system.

While the LCN WORKBOOK package can eliminate the need for paper forms for all point-building, you still will need paper forms to collect network configuration data, picture-building, free format logs, and button configuration data, unless you elect to enter that data directly into a Universal Station.

1.3 Paper Forms, Screen Forms, and Reference Information

Basics

The following example shows:

- a portion of a paper configuration form
- the corresponding portion of the US screen form
- the reference information for one of the parameters on both the paper form and the screen form.

Example

Paper configuration form:

<i>Point Assignment Display</i>		PM88-517 page 1 of 6 6/95
NAME		range = Not applicable
Tag Name	default = Blank

Parameter entry display on Universal Station:

PARAM. ENTRY DISPLAY - POINT:	UNIT:	ERRS	PAGE 01 OF 10
NIM-POINT ASSIGNMENT REGULATORY CONTROL			
TAG NAME	(NAME)	<input type="text"/>	

Paper configuration form:

NAME			
Description:	Tag Name—Identifies this point to the system and on displays, reports examples		

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Selecting and filling out forms

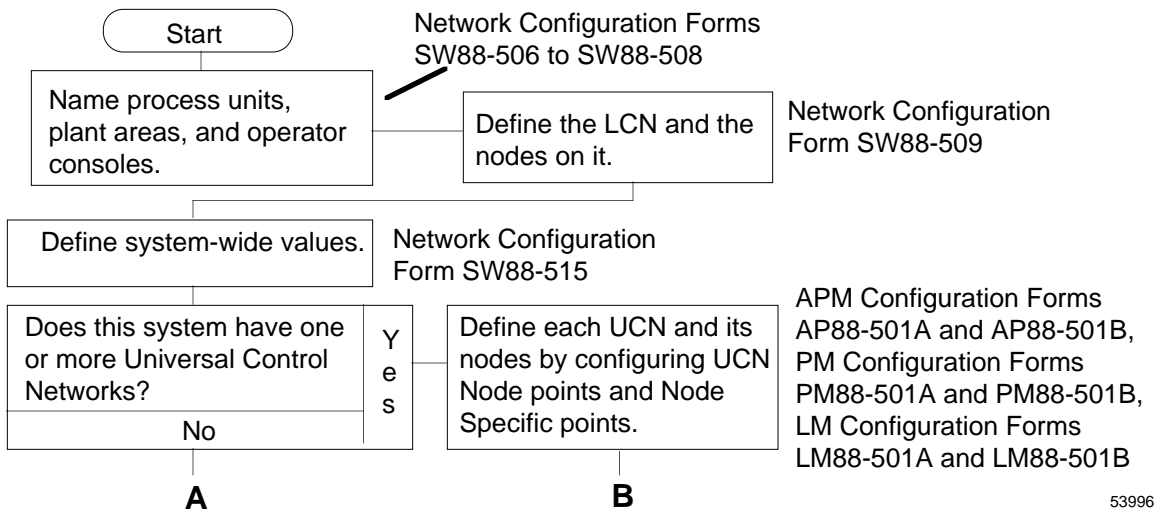
A suggested order for selecting and filling out paper configuration forms is provided by the flow chart on the following figure.

The forms that apply to each step are listed by the block that defines each step.

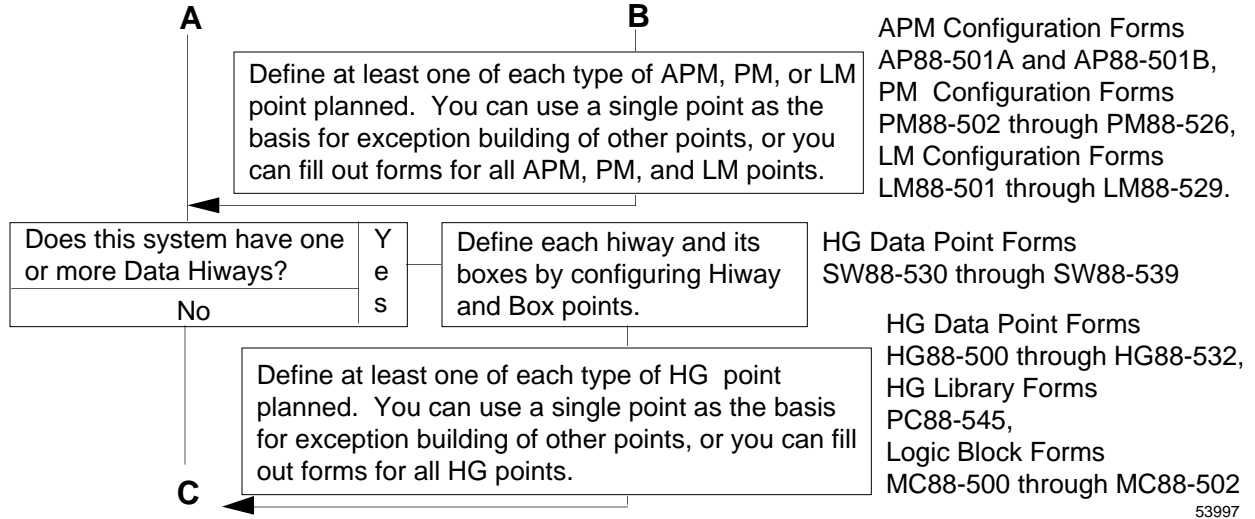
Introduction

1.3 Paper Forms, Screen Forms, and Reference Information

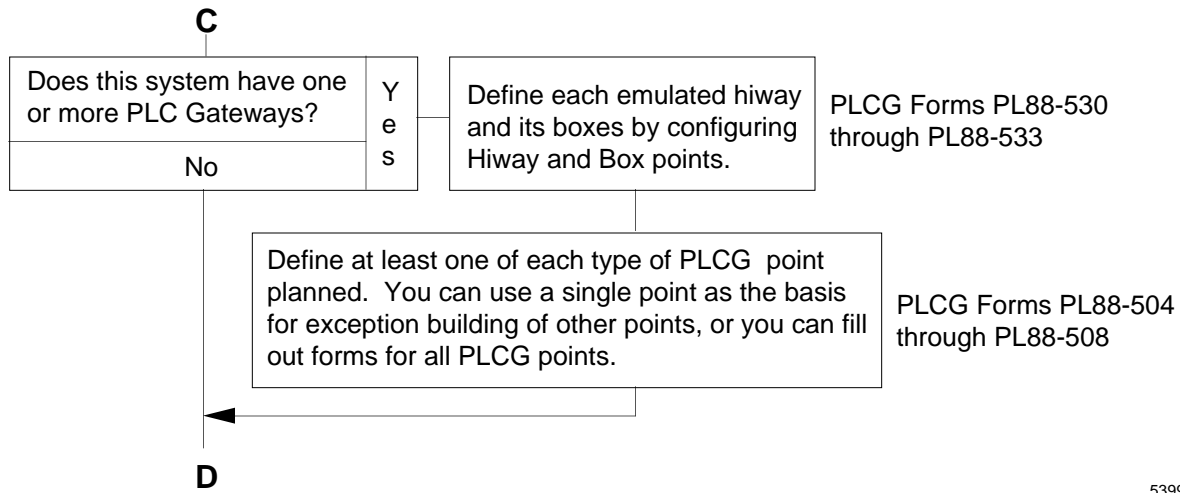
Configuration data collection flow chart, part 1



Configuration data collection flow chart, part 2

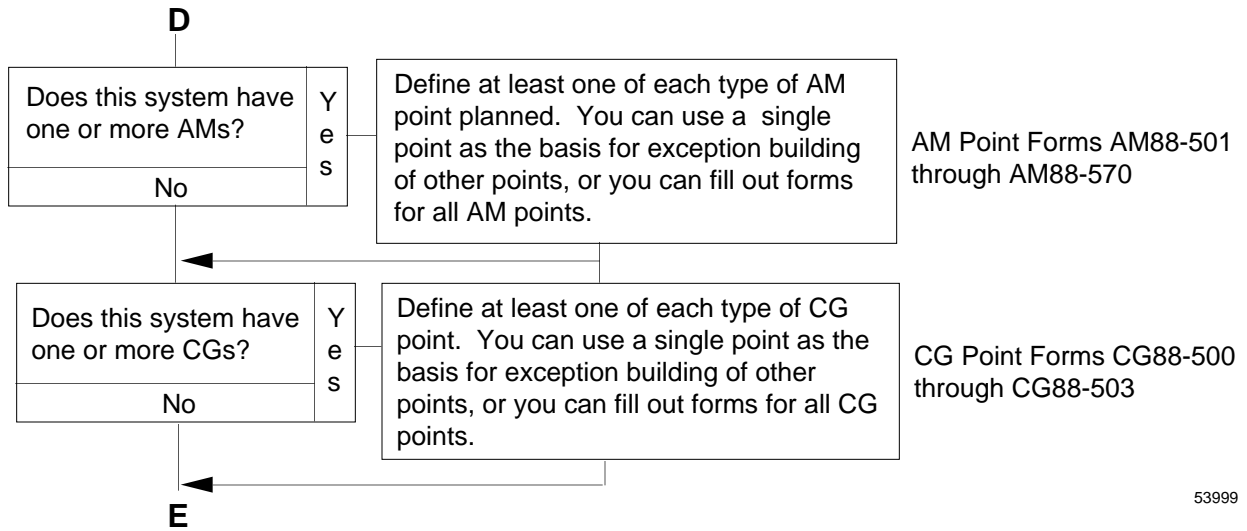


Configuration data collection flow chart, part 3



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Configuration data collection flow chart, part 4

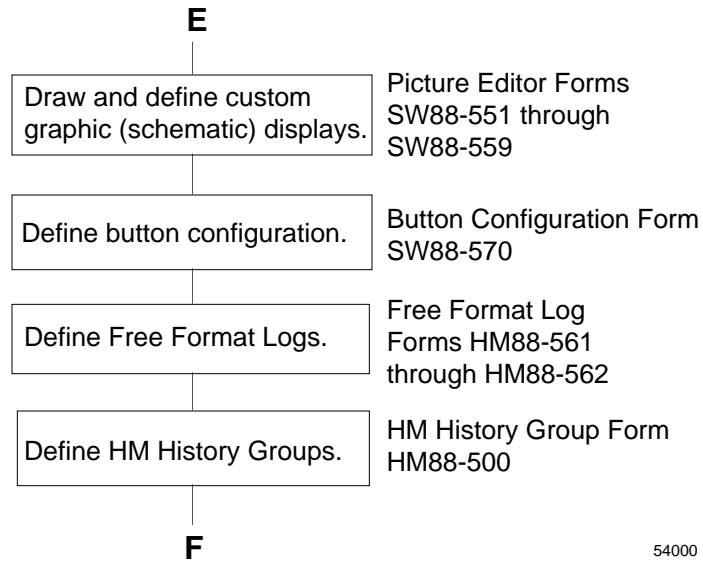


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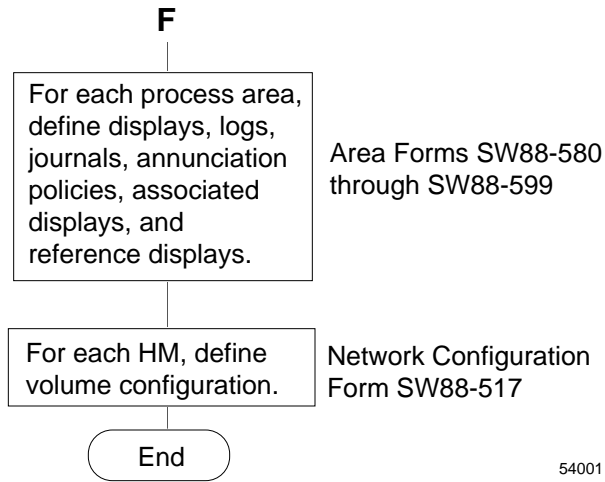
1.3 Paper Forms, Screen Forms, and Reference Information

**Configuration
data collection
flow chart, part 5**



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**Configuration
data collection
flow chart, part 6**



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1.4 Reference

Additional information

Paper configuration forms for configuration activities that apply to most systems are in the *Implementation/Configuration Forms* binder.

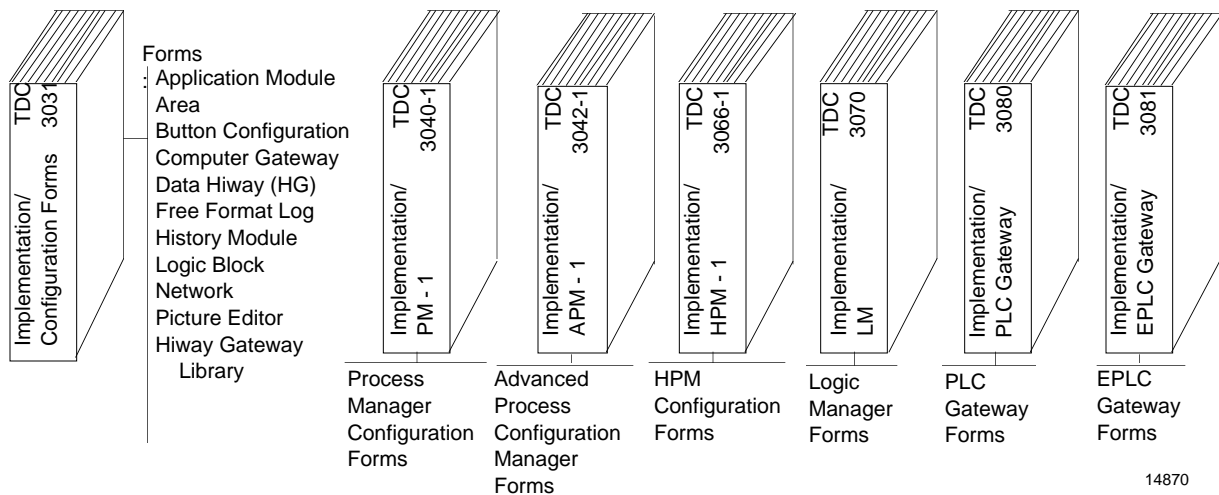
Forms for Process Manager points, Logic Manager points, and PLC Gateway points are in the *Implementation* binders for those products.

For all data point building, information necessary to make selections and enter data on the forms is provided in Parameter Reference Dictionaries.

Reference information for filling in the *Network Configuration Forms* is provided in *Network Form Instructions*.

The following figure shows which binders contain the paper configuration forms.

Binders that contain paper configuration forms

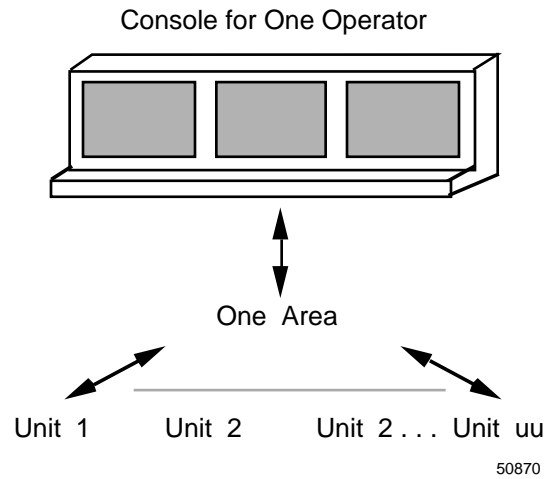


Section 2—Configuration Activities

2.1 Network Configuration

- Definition** Network Configuration is the definition of the nodes on the Local Control Network (LCN) and the definition of other information that must be known by each of the LCN nodes.
- Activity overview** The targets in the left-most column of the Engineering Main Menu select the following Network Configuration activities:
- **UNIT NAMES**—In this activity, you name each of the process units defined for your system (for example, “Reactor Unit 1”). A process or plant is typically partitioned into a number of process units that are assigned to specific operators. To support such unit partitioning, the **TotalPlant** Solution (TPS) system provides several unit-related functions such as alarm and event reporting, alarm suppression, and message handling. Messages and alarm reports are thus directed to the responsible operator, based on unit assignments. Each data point is assigned to only one unit.
 - **AREA NAMES**—In this activity, you name each of the process areas defined for your system (for example, “West Area”). A process area typically includes several process units. Often, an area is assigned to an Operator’s Console, which consists of from one to ten Universal Stations. The typical relationships of Operator Consoles, areas, and units are presented in the following figure.
 - **CONSOLE NAMES**—In this activity, you name each of the Operator Consoles defined for your system (for example, “West Area Console”). A console consists of from one to ten USs. Often, an area is assigned to an Operator’s Console. The typical relationships of Operator Consoles, areas, and units are presented in the following figure.

**Typical console,
area, and units**



- **LCN NODES**—In this activity, you define each of the nodes on the LCN by defining such things as the node type, the LCN address, and a redundant-partner node.
- **SYSTEM WIDE VALUES**—In this activity, you establish several values that are used throughout the system; for example, the source of the system clock, the number of shifts-per-week, and the number of lines per printer page.
- **VOLUME CONFIGURATION**—In this activity, you define the volumes to reside on each History Module and the size of those volumes. More information about HM volume configuration is presented in 2.10 History Module Volume Configuration, page 25.

**Forms,
instructions, and
references**

Network Configuration forms, instructions, and references are in the following documents:

Table 2-1 Network Configuration

Document Title	Binder Number	Binder Name
<i>Network Forms</i>	3031	Implementation/Configuration Forms
<i>Network Form Instructions</i>	3030-1	Implementation/Startup & Reconfiguration - 1

Table 2-1 Network Configuration

Document Title	Binder Number	Binder Name
HM Volume Configuration information is provided in the <i>Engineer's Reference Manual</i> , HM Configuration and Use.	3030-2	Implementation/Startup & Reconfiguration - 2
<i>Network Data Entry</i>	3030-1	Implementation/Startup & Reconfiguration - 1

2.2 Process Network Configuration

Types of process networks LCN-based TPS systems offer two types of process networks: the Universal Control Network (UCN) and the Data Hiway.

Information about the process networks on your system and the devices on those networks is in the system procurement documentation.

To define your process networks, you use the Data Entity Builder to build reserved entities. Select the [NETWORK INTERFACE MODULE] target on the Engineering Main Menu to access the displays to build UCN entities.

To access the displays used to build Data Hiway entities, use the [HIWAY GATEWAY] target.

UCN configuration forms, guidelines, and references UCN and Node-Specific information, configuration forms, guidelines, and references are in the following documents:

Table 2-2 UCN

Document Title	Binder Number	Binder Name
<i>Advanced Process Manager Configuration Forms</i>	3042-1	Implementation/Advanced Process Manager - 1
<i>Advanced Process Manager Implementation Guidelines</i>	3042-1	Implementation/Advanced Process Manager - 1
<i>Process Manager Configuration Forms</i>	3040-1	Implementation/Process Manager - 1
<i>Process Manager Implementation Guidelines, PM Operational Considerations</i>	3040-1	Implementation/Process Manager - 1
<i>Advanced Process Manager Parameter Reference Dictionary</i>	3042-2	Implementation/Advanced Process Manager - 2
<i>Process Manager Parameter Reference Dictionary</i>	3040-2	Implementation/Process Manager - 2
<i>Data Entity Builder Manual</i>	3032-1	Implementation/Engineering Operations - 1

Data Hiway configuration forms, guidelines, and references

Data Hiway configuration forms, guidelines, and references are in the following documents:

Table 2-3 Data Hiway

Document Title	Binder Number	Binder Name
<i>Data Hiway, Box/Slot, and Data Point Forms</i>	3031	Implementation/Configuration Forms
<i>Data Hiway, Box/Slot, and Data Point Instructions</i>	3034-1	Implementation/Hiway Gateway - 1
<i>Hiway Gateway Implementation Guidelines, Introduction</i>	3034-1	Implementation/Hiway Gateway - 1
<i>Hiway Gateway Parameter Reference Dictionary</i>	3034-1	Implementation/Hiway Gateway - 1
<i>Data Entity Builder Manual</i>	3032-1	Implementation/Engineering Operations - 1

2.3 Data Point Building

Definition Data points are the basis for process data acquisition and control. A data point is a named collection of data values called parameters. The parameters contain data related to the process and to the data acquisition and control functions.

Data points in your system are defined as you design the control strategy for your plant or process.

Data points are built with the Data Entity Builder (DEB).

Where data points reside Data points are built for and reside in the following products:
Table 2-4 Data Point Residence and Targets for Access

Product	Target on Engineering Main Menu
Application Module	[APPLICATION MODULE]
Computer Gateway	[COMPUTER MODULE]
Advanced Process Manager	[NETWORK INTERFACE MODULE]
Process Manager	[NETWORK INTERFACE MODULE]
Logic Manager	[NETWORK INTERFACE MODULE]
Hiway Gateway and process-connected boxes on a Data Hiway	[HIWAY GATEWAY]
PLC Gateway	[HIWAY GATEWAY]

Forms, form instructions, and references Forms, form instructions, and reference documents are shown in the following tables:
Table 2-5 Application Module

Document Title	Binder Number	Binder Name
<i>Application Module Forms</i>	3031	Implementation/Configuration Forms
<i>Application Module Form Instructions</i>	3035-1	Implementation/Application Module - 1
<i>Application Module Implementation Guidelines</i>	3035-2	Implementation/Application Module - 2
<i>Application Module Parameter Reference Dictionary</i>	3035-2	Implementation/Application Module - 2
<i>System Control Functions</i>	3030-2	Implementation/Startup & Reconfiguration - 2
<i>Application Module Control Functions</i>	3035-1	Implementation/Application Module - 1

Table 2-6 Computer Gateway

Document Title	Binder Number	Binder Name
<i>Computer Gateway Forms</i>	3031	Implementation/Configuration Forms
<i>Computer Gateway Form Instructions</i>	3037 3039 3038	Implementation/Computer Gateway Implementation/CM50S Implementation/Processor Gateway
<i>Computer Gateway Parameter Reference Dictionary</i>	3037 3039 3038	Implementation/Computer Gateway Implementation/CM50S Implementation/Processor Gateway
<i>Computer Gateway User Manual</i>	3037	Implementation/Computer Gateway
<i>CM50S User Manual</i>	3039	Implementation/CM50S Rel. 5.0
<i>Processor Gateway User Manual</i>	3038	Implementation/Processor Gateway

Table 2-7 Advanced Process Manager

Document Title	Binder Number	Binder Name
<i>Advanced Process Manager Configuration Forms</i>	3042-1	Implementation/Advanced Process Manager - 1
<i>Advanced Process Manager Implementation Guidelines</i>	3042-1	Implementation/Advanced Process Manager - 1
<i>Advanced Process Manager Parameter Reference Dictionary</i>	3042-2	Implementation/Advanced Process Manager - 2
<i>System Control Functions</i>	3030-2	Implementation/Startup & Reconfiguration - 2
<i>Advanced Process Manager Control Functions and Algorithms</i>	3042-1	Implementation/Advanced Process Manager - 1

Table 2-8 Process Manager

Document Title	Binder Number	Binder Name
<i>Process Manager Configuration Forms</i>	3040-1	Implementation/Process Manager - 1
<i>Process Manager Implementation Guidelines</i>	3040-1	Implementation/Process Manager - 1
<i>Process Manager Parameter Reference Dictionary</i>	3040-2	Implementation/Process Manager - 2
<i>System Control Functions</i>	3030-2	Implementation/Startup & Reconfiguration - 2
<i>Process Manager Control Functions and Algorithms</i>	3040-1	Implementation/Process Manager - 1

Table 2-9 Logic Manager

Document Title	Binder Number	Binder Name
<i>Logic Manager Forms</i>	3070	Implementation/Logic Manager
<i>Logic Manager Implementation Guidelines</i>	3070	Implementation/Logic Manager
<i>Logic Manager Parameter Reference Dictionary</i>	3070	Implementation/Logic Manager
<i>Logic Manager Control Functions</i>	3070	Implementation/Logic Manager

Table 2-10 Hiway Gateway and Process Connected Boxes on a Data Hiway

Document Title	Binder Number	Binder Name
<i>Data Hiway, Box/Slot, & Data Point Forms</i>	3031	Implementation/Configuration Forms
<i>Hiway Gateway Library Forms</i>	3031	Implementation/Configuration Forms
<i>Data Hiway, Box/Slot, & Data Point Form Instructions</i>	3034-1	Implementation/Hiway Gateway - 1
<i>Hiway Gateway Parameter Reference Dictionary</i>	3034-1	Implementation/Hiway Gateway - 1
<i>System Control Functions</i>	3030-2	Implementation/Startup & Reconfiguration - 2
<i>Hiway Gateway Control Functions</i>	3034-1	Implementation/Hiway Gateway - 1

Table 2-11 Programmable Logic Controller Gateway

Document Title	Binder Number	Binder Name
<i>Programmable Logic Controller Gateway Forms</i>	3080	Implementation//PLC Gateway
<i>Programmable Logic Controller Implementation Guidelines</i>	3080	Implementation//PLC Gateway
<i>Programmable Logic Controller Parameter Reference Dictionary</i>	3080	Implementation//PLC Gateway
<i>System Control Functions</i>	3030-2	Implementation/Startup & Reconfiguration - 2
<i>Programmable Logic Controller Gateway Control Functions</i>	3080	Implementation//PLC Gateway

2.4 Preparation of User Programs in Control Language

Definition Control Language (CL) is a process engineer’s language that you can use to write your own programs for continuous control and sequence control operations.

Categories of CL programs The TPS system offers these categories of CL programs:

- CL/AM programs are continuous-control programs that are attached to Application Module data points.
- CL/APM programs are sequence programs attached to Advanced Process Module data points in Advanced Process Managers.
- CL/PM programs are sequence programs attached to Process Module data points in Process Managers.
- CL/MC programs are sequence programs attached to Process Module data points in Advanced Multifunction Controllers and Multifunction Controllers.

CL reference and data entry documents No forms are required for the writing of CL source code—plain paper can be used or you can enter the code directly through the Engineering Personality’s Text Editor.

Instructions for use of the Text Editor are in the following document:

Table 2-12 Text Editor

Document Title	Binder Number	Binder Name
<i>Text Editor Operation</i>	3032-3	Implementation/Engineering Operations - 3

The following documents support the development of CL programs:

Table 2-13 CL/AM

Document Title	Binder Number	Binder Name
<i>Control Language/Application Module Overview</i>	3035-3	Implementation/Application Module - 3
<i>System Control Functions, Detailed Functional Description</i>	3030-2	Implementation/Startup & Reconfiguration - 2
<i>Control Language/Application Module Reference Manual</i>	3035-3	Implementation/Application Module - 3
<i>Control Language/Application Module Data Entry</i>	3035-3	Implementation/Application Module - 3

Table 2-14 CL/APM

Document Title	Binder Number	Binder Name
<i>Control Language/Advanced Process Manager Reference Manual</i>	3042-2	Implementation/Advanced Process Manager - 2
<i>Control Language/Advanced Process Manager Data Entry</i>	3042-2	Implementation/Advanced Process Manager - 2

Table 2-15 CL/PM

Document Title	Binder Number	Binder Name
<i>Control Language/Process Manager Reference Manual</i>	3040-2	Implementation/Process Manager - 2
<i>Control Language/Process Manager Data Entry</i>	3040-2	Implementation/Process Manager - 2

Table 2-16 CL/MC

Document Title	Binder Number	Binder Name
<i>Control Language/Multifunction Controller Reference Manual</i>	3034-2	Implementation/Hiway Gateway-2
<i>Control Language/Multifunction Controller Data Entry</i>	3034-2	Implementation/Hiway Gateway-2

2.5 Picture Building

Definition Picture building is the use of the Picture Editor to build schematic or custom-graphic displays.

User-built displays can be devised for many uses, but one of the most common is to provide schematics of the process to be used by operators to monitor and control the process.

To access the Picture Editor, select the [PICTURE EDITOR] target on the Engineering Main Menu.

Forms, instructions, and references The Picture Editor forms, instructions, and references are in the following documents:

Table 2-17 Picture Editor

Document Title	Binder Number	Binder Name
<i>Picture Editor Forms</i>	3031	Implementation/Configuration Forms
<i>Picture Editor Form Instructions</i>	3032-3	Implementation/Engineering Operations - 3
<i>Picture Editor Reference Manual</i>	3032-2	Implementation/Engineering Operations - 2
<i>Picture Editor Data Entry</i>	3032-3	Implementation/Engineering Operations - 3

Pathname Catalog The History Module location of the object files created as you build schematics and other custom displays must be entered in the Area Database's Pathname Catalog.

The following document contains more information about the Pathname Catalog:

Table 2-18 Pathname Catalog

Document Title	Binder Number	Binder Name
<i>Area Form Instructions, >>Pathname Catalog Form, SW88-582</i>	3032-1	Implementation/Engineering Operations - 1

2.6 Free Format Log Building

Definition Free format logs are user-defined printed logs. You define both the form and content of these logs through the Free Format Log Builder.

To access the Free Format Log Builder, select the [FREE FORMAT LOG] target on the Engineering Main Menu.

Forms, instructions, and references The forms, instructions, and references for Free Format Log building are in the following documents:

Table 2-19 Free Format Log

Document Title	Binder Number	Binder Name
<i>Free Format Log Forms</i>	3031	Implementation/Configuration Forms
<i>Free Format Log Form Instructions</i>	3032-1	Implementation/Engineering Operations - 1
<i>Free Format Log Data Entry</i>	3032-1	Implementation/Engineering Operations - 1

Pathname Catalog The History Module location of the object files created as you build free format logs must be entered in the Area Database's Pathname Catalog.

The following document contains more information about the Pathname Catalog:

Table 2-20 Pathname Catalog

Document Title	Binder Number	Binder Name
<i>Area Form Instructions, Pathname Catalog Form, SW88-482</i>	3032-1	Implementation/Engineering Operations - 1

2.7 Button Configuration

Basics

Certain buttons on the Universal Station and Universal Work Station Operator's Keyboards can be configured to perform user-defined actions when the button is pressed. For example, you could configure a button to call a specific display to the screen.

Forms, instructions, and references

The forms, instructions, and references for Button Configuration are in the following documents:

Table 2-21 Button Configuration

Document Title	Binder Number	Binder Name
<i>Button Configuration Forms</i>	3031	Implementation/Configuration Forms
<i>Button Configuration Form Instructions</i>	3032-1	Implementation/Engineering Operations - 1
<i>Button Configuration Data Entry</i>	3032-1	Implementation/Engineering Operations - 1

Pathname Catalog

The History Module location of the object files created as you configure buttons must be entered in the Area Database's Pathname Catalog.

The following document contains more information about the Pathname Catalog:

Table 2-22 Pathname Catalog

Document Title	Binder Number	Binder Name
<i>Area Form Instructions, >>Pathname Catalog Form, SW88-582</i>	3032-1	Implementation/Engineering Operations - 1

2.8 Area Configuration

Definition Area Configuration is actually the building of Universal Station databases. As each US is started up with the Operator Personality or the Universal Personality, it is loaded with the personality image (.PI) file and an area database.

You can define up to ten areas, and therefore, up to ten area databases.

Database entities In area configuration, you use the Data Entity Builder (DEB) to build the area database as reserved entities.

These entities define things such as the process units assigned to the area; the specific content of standard, Honeywell-provided displays, logs, and printed reports; and a catalog of pathnames that point to user-defined schematic displays and button configurations.

Select the [AREA DATA BASE] target on the Engineering Main Menu to access the displays used to build area database entities.

Forms and instructions The forms and instructions for Area Configuration are in the following documents:

Table 2-23 Area

Document Title	Binder Number	Binder Name
<i>Area Forms</i>	3031	Implementation/Configuration Forms
<i>Area Form Instructions</i>	3032-1	Implementation/Engineering Operations - 1
<i>Data Entity Builder Manual</i>	3032-1	Implementation/Engineering Operations - 1

2.9 HM History Groups

Definition Continuous history is collected in up to 120 groups, each of which consists of the data for up to 20 data points.

Before you configure history volumes on each HM that is to store continuous history, you should define and assign points to each history group.

The following document contains guidelines for doing this:

Table 2-24 History Group

Document Title	Binder Number	Binder Name
<i>Engineer's Reference Manual:</i> >>HM Configuration and Use >>Guidelines for Use of HM Resources	3030-2	Implementation/Startup & Reconfiguration - 2

Forms and instructions The forms and instructions for HM History Group are in the following documents:

Table 2-25 HM History Group

Document Title	Binder Number	Binder Name
<i>HM History Group Forms</i>	3031	Implementation/Configuration Forms
<i>HM History Group Form Instructions</i>	3032-1	Implementation/Engineering Operations - 1

2.10 History Module Volume Configuration

Basics

The last aspect of configuration data collection is to define the data that will be stored in History Modules.

While it is possible to make preliminary estimates of HM volumes and the space they require, and to configure those volumes in order to get the system running, finalization of HM volume configuration can be accomplished only after all other system configuration is complete, because you will need virtually all of your other configuration data to use your HM space efficiently and effectively.

To make your HM volume configuration for a given HM effective, you must initialize the HM. This initialization deletes any information stored on the HM, so to preserve that data, it must be stored on removable media (cartridges or floppy diskettes) before you initialize an HM.

Types of data stored

History Modules can store these types of data:

- Continuous process history—Continuous history is data for continuous data points, points whose process variable (PV) is a real (floating point) analog value, or a digital value.
- System-related data—System-related data is the system software and related files.
- Area-related data—Area-related data is the user-configured process and operational data for a process area.

Saving and restoring continuous history requires a special procedure, which is provided in the following document:

Table 2-26 History Module Saving and Restoring

Document Title	Binder Number	Binder Name
<i>Engineer's Reference Manual, How to Save and Restore Continuous History</i>	3030-2	Implementation/Startup & Reconfiguration - 2

Storage space guidelines

Guidelines for the use of HM storage space and for estimating the space that will be occupied are provided in the following document:

Table 2-27 History Module Storage

Document Title	Binder Number	Binder Name
<i>Engineer's Reference Manual, HM Configuration and Use</i>	3030-2	Implementation/Startup & Reconfiguration - 2

You should become familiar with this section before proceeding with HM volume configuration.

Configuration Activities

2.10 History Module Volume Configuration

Forms, instructions, and references

The forms and instructions for HM Volume Configuration are in the following documents:

Table 2-28 HM Volume

Document Title	Binder Number	Binder Name
<i>Network Forms</i>	3031	Implementation/Configuration Forms
<i>Network Data Entry</i>	3030-1	Implementation/Startup & Reconfiguration - 1
<i>Engineer's Reference Manual, HM Configuration and Use.</i>	3030-2	Implementation/Startup & Reconfiguration - 2

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